

## Technical Memorandum

### Phase 3 Chemical Data Gap Investigation Sampling Results Report and Appendices A through F Subarea 5C in Area IV



### Santa Susana Field Laboratory Ventura County, California

*Prepared for:*

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**CDM** Federal Programs Corporation (CDM Smith)

*Prepared under:*

US Department of Energy, EM Consolidated Business Center  
Contract DE-EM0001128  
CDM Task Order DE-DT0003515

February 2013

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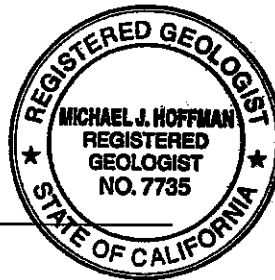
# Technical Memorandum

## Phase 3 Chemical Data Gap Investigation Sampling Results Subarea 5C in Area IV Santa Susana Field Laboratory Ventura County, California

Contract DE-EM0001128  
CDM Smith Task Order DE-DT0003515

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

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2/6/13  
Date

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<b>Appendix F</b>	Chain of Custodies

## Acronyms and Abbreviations

%D	percent difference/percent drift
%R	percent recovery
mg/L	milligram per liter
ng/kg	nanogram per kilogram
ng/L	nanogram per liter
pg/L	picogram per liter
µg/kg	microgram per kilogram
µg/L	microgram per liter
AOC	Administrative Order on Consent
bgs	below ground surface
CAS	chemical abstract service
CDM Smith	CDM Federal Programs Corporation
CoC	chain of custody
DOE	Department of Energy
DPT	direct push technology
DQI	data quality indicator
DQO	data quality objective
DTSC	Department of Toxic Substances Control
DUAR	data usability assessment review
EDL	estimated detection limit
EFH	extractable fuel hydrocarbon
EPA	U.S. Environmental Protection Agency
EMAX	EMAX Laboratories, Inc.
FSDS	field sample data sheet
FSP	field sampling plan
FTL	field team leader
GIS	geographic information system
GRO	gasoline range organics
HSA	Historical Site Assessment
ICP	inductively coupled plasma
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LLI	Lancaster Laboratories, Inc.
MDL	method detection limit
mL	milliliter
MRL	method reporting limit
MS	matrix spike
MSD	matrix spike duplicate
MWH	MWH Americas, Inc.
NDMA	n-Nitrosodimethylamine
PAH	polycyclic aromatic hydrocarbon
PARCCS	precision, accuracy, representativeness, comparability, completeness and sensitivity
PCB	polychlorinated biphenyl

PCT	polychlorinated triphenyl
PID	photoionization detector
QA	quality assurance
QAPP	quality assurance project plan
QC	quality control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RL	reporting limit
RPD	relative percent difference
SDG	sample delivery group
SIM	selective ion monitoring
SOP	standard operating procedure
SOW	statement of work
SSFL	Santa Susana Field Laboratory
SVOC	semi-volatile organic compound
TM	technical memorandum
TPH	total petroleum hydrocarbon
VOC	volatile organic compound
WP/FSAP	Work Plan/Field Sampling and Analysis Plan

# Section 1

## Introduction

This Technical Memorandum (TM) presents the results of chemical analyses of surface and subsurface soil samples collected from soil borings within Subarea 5C at the Santa Susana Field Laboratory (SSFL) site in Ventura County, California. This work was performed under two planning documents:

- *Master Field Sampling Plan for Chemical Data Gap Investigation Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California* (CDM Federal Programs Corporation [CDM Smith] 2012a) (Master FSP)
- *Addendum No. 1 to Master Field Sampling Plan for Chemical Data Gap Investigation, Phase 3 Soil Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California, Subarea 5C* (CDM Smith 2012b) (Addendum to the Master FSP)

The Master FSP is Appendix A of *Work Plan for Chemical Data Gap Investigation, Phase 3 Soil Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California* (CDM Smith 2012c), which also includes Appendix B, Quality Assurance Project Plan (QAPP), Appendix C, Worker Safety and Health Program, and Appendix D, Standard Operating Procedures (SOPs).

The Addendum to the Master FSP also includes several sample locations for trenches and test pits in Subarea 5C. All trenches and test pits that exist in the various Area IV subareas will be sampled at one time (during Phase 3 sampling) and the associated analytical results will be reported in separate TMs for that subarea.

This TM also provides a description of the sampling activities and a discussion of the analytical data review findings for Phase 3 sampling in Subarea 5C. The TM does not provide an interpretation of the results. The data provided in this TM are intended to be combined with data collected under the prior Resource Conservation and Recovery Act (RCRA) Facility Investigation and the chemical collocated sampling program (Phase 1 sampling) to support the Soil Remedial Action Implementation Plan for chemicals in soil in Area IV. The collocated sampling program was Phase 1 of the chemical investigation activities under the Administrative Order on Consent for Remedial Action [Docket Number HSA-CO 10/11-037] between the U.S. Department of Energy [DOE] and the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC).

### 1.1 Objective and Basis for Data Gap Investigation Sampling in Subarea 5C

The specific objective of sampling under the Chemical Data Gap Investigation is to identify the nature and extent (vertical and lateral) of soil contamination within Area IV for cleanup remedy evaluation.

The document *Subarea 5C Data Gap Analysis Technical Memorandum, Santa Susana Field Laboratory, Ventura County, California*, (Subarea 5C Data Gap Analysis TM) was prepared by MWH Americas, Inc. (MWH) and included as an attachment to *Addendum No. 1 to Master Field Sampling Plan for Chemical Data Gap Investigation, Phase 3 Soil Chemical Sampling at Area IV, Santa Susana Field Laboratory*,

*Ventura County, California, Subarea 5C* (CDM 2012b). The data gap analysis provides the rationale for selection of each sample location and the chemical sampling rationale.

CDM Smith was responsible for all aspects of the field sampling program under Phase 3 of the AOC, including:

- Locating the sample locations selected as a result of the data gap investigation in the field using geographic information system (GIS) coordinates
- Collection of all samples in accordance with the procedures and controls specified in the Master FSP, including but not limited to: sample collection, sample container preparation, sample handling, and documentation
- Sample management and shipment, laboratory coordination, and chemical analyses of the samples
- Data review and validation

Appropriate and applicable SOPs were followed for each activity performed during the field sampling program.

## 1.2 Geology

Subarea 5C of Area IV is within the Chatsworth Formation, which is composed predominantly of sandstone interbedded with siltstone and shale. The overlying native soils encountered in Subarea 5C range from predominantly silty sands to sandy silts at shallow depths with increasing clay content to 10 feet below ground surface (bgs). Disturbed areas in Subarea 5C comprise fill soils of unknown origin and include debris such as concrete, asphalt, and wood. The contact with the lithified Chatsworth Formation at many soil boring locations occurs between 2 and 9 feet bgs. Additional information regarding the Area IV geology can be found in *Volume I of Group 5 – Central Portion of Areas III and IV RCRA Facility Investigation Report, Santa Susana Field Laboratory, Ventura County, California* (CH2M Hill 2008).

## 1.3 Technical Memorandum Organization

This TM includes the following sections:

- **Section 1 - Introduction** – Summarizes the basis and objectives of the Phase 3 soil sampling in Subarea 5C
- **Section 2 - Field Sampling and Analytical Methods** – Provides details regarding field sampling procedures and laboratory analytical methods
- **Section 3 - Soil Sample Analytical Results** – Provides a summary of detected analytical results for each chemical; the appendices provide the overall results
- **Section 4 - Data Usability Assessment** – Discusses the results of the data review and validation processes
- **Section 5 - References**

## Section 2

# Field Sampling and Analytical Methods

Surface and/or subsurface soil samples were collected from 204 Phase 3 locations in Subarea 5C between April 12 and July 24, 2012. Sample locations in the northern portion of Subarea 5C are shown on Figure 2-1 and the sample locations in the southern portion of Subarea 5C are shown on Figure 2-2. Exhibit 1 depicts all sampling locations for Subarea 5C.

Table 2-1 includes the data gap rationale for sampling at each Subarea 5C location, the location description, sample numbers, sample type, date of sample collection, depth of boring, analyses sampled for, description of any fill materials encountered, and reasons for not sampling some of the locations proposed in the Data Gap Analysis TM. These samples are highlighted in gray.

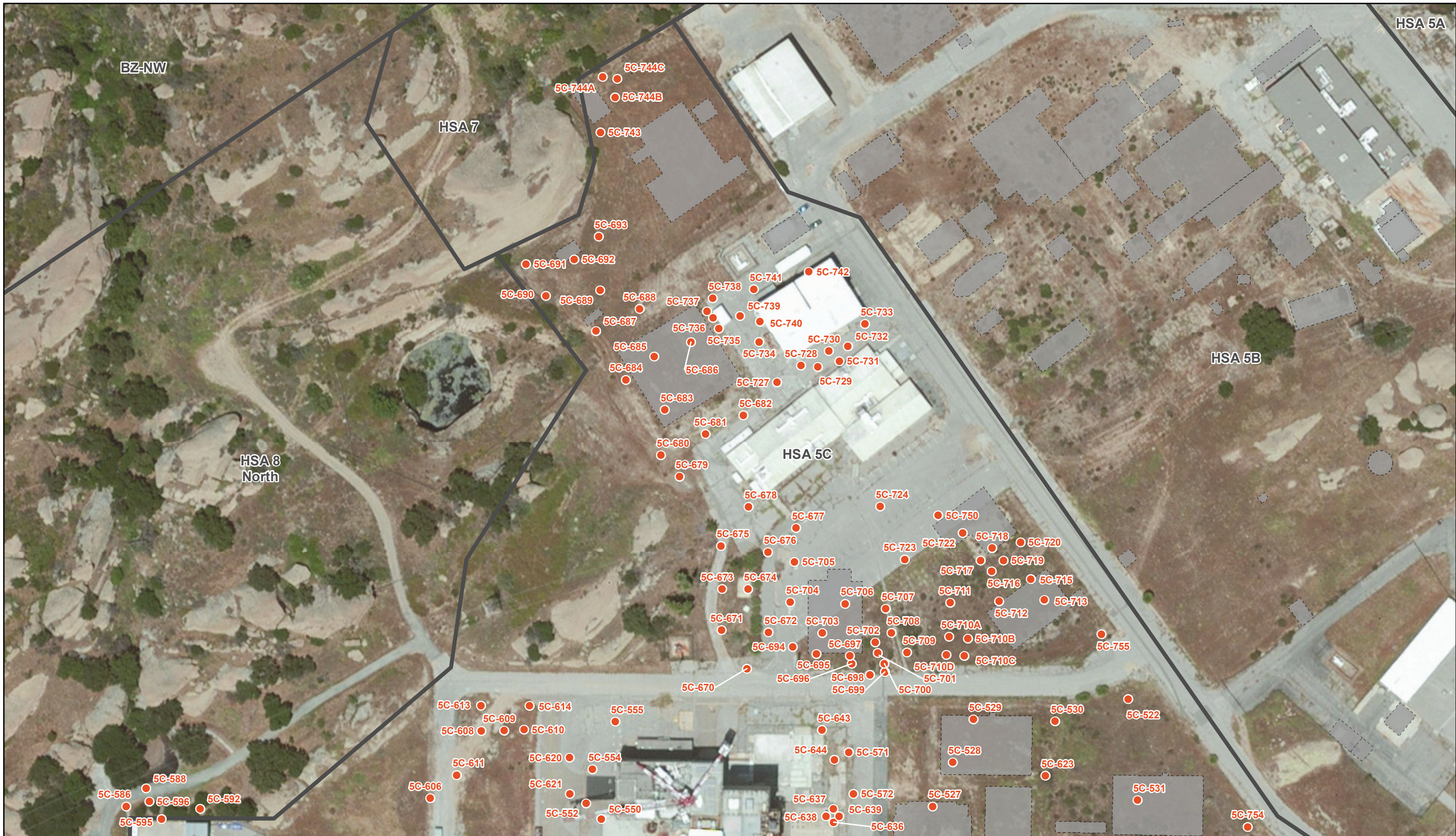
All soil sampling equipment (described in Sections 2.1 and 2.2) that came into contact with sample materials was decontaminated prior to sample collection in accordance with SSFL SOP 12 of the Master FSP. All samples, for both surface and subsurface, were screened for radioactivity using a Micro R Survey Meter (for gamma radiation) and a Pancake Frisker Detector (for alpha and beta radiation), followed by screening with a photoionization detector (PID) as directed in SOP 7. For each sample collected, the site geologist also completed a field data sample sheet (FSDS) in accordance with SSFL SOP 8 and the completed form was reviewed for correctness in the field by the field sampler and by the sample coordinator during sample processing. A boring log was created in accordance with SSFL SOP 9 for each location and reviewed by a state certified Professional Geologist. The FSDS sheets and associated boring logs are presented in Appendix E.

## 2.1 Surface Sampling

Prior to the collection of the surface soil samples in Subarea 5C, the surface of each sample area was prepared by CDM Smith sampling personnel by removing leaves, grass, and any other surface debris. Surface samples were collected at 126 locations from the ground surface to 6 inches bgs using a slide hammer equipped with a 2-inch diameter and 6-inch long stainless steel sample liner in accordance with SSFL SOP 2 of the Master FSP. The slide hammer sampler was pounded into the soil until the top of the sampler was flush with the ground surface and then removed from the soil. The sample sleeve was removed from the sampler and both ends capped with a Teflon® liner and a plastic cap. Samples were attempted for collection at six locations (SL-521, SL-558A, SL-558B, SL-558D, SL-559, and SL-752) using the slide hammer and stainless steel sleeves, but the soils at these locations were too loose to stay in the sleeves and therefore the samples were collected directly from the hand auger bucket and placed into glass jars.

Surface samples were collected at 57 Subarea 5C locations using the direct push technology (DPT) rig by transferring the soil from the acetate sampling sleeve into one or more glass jars, depending on the volume of sample material needed for the required analyses. The collection of the samples directly from the hand auger bucket and the acetate sleeve are deviations from SSFL SOP 2 of the Master FSP for collection of surface soil samples (see Section 2.7).

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BZ-NW

HSA 5A

HSA 7

HSA 5B

HSA 8 North

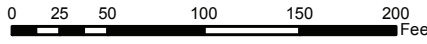
HSA 5C

- Legend**
- Sample Location
  - ▭ Area IV Subarea
  - ▭ Removed Building

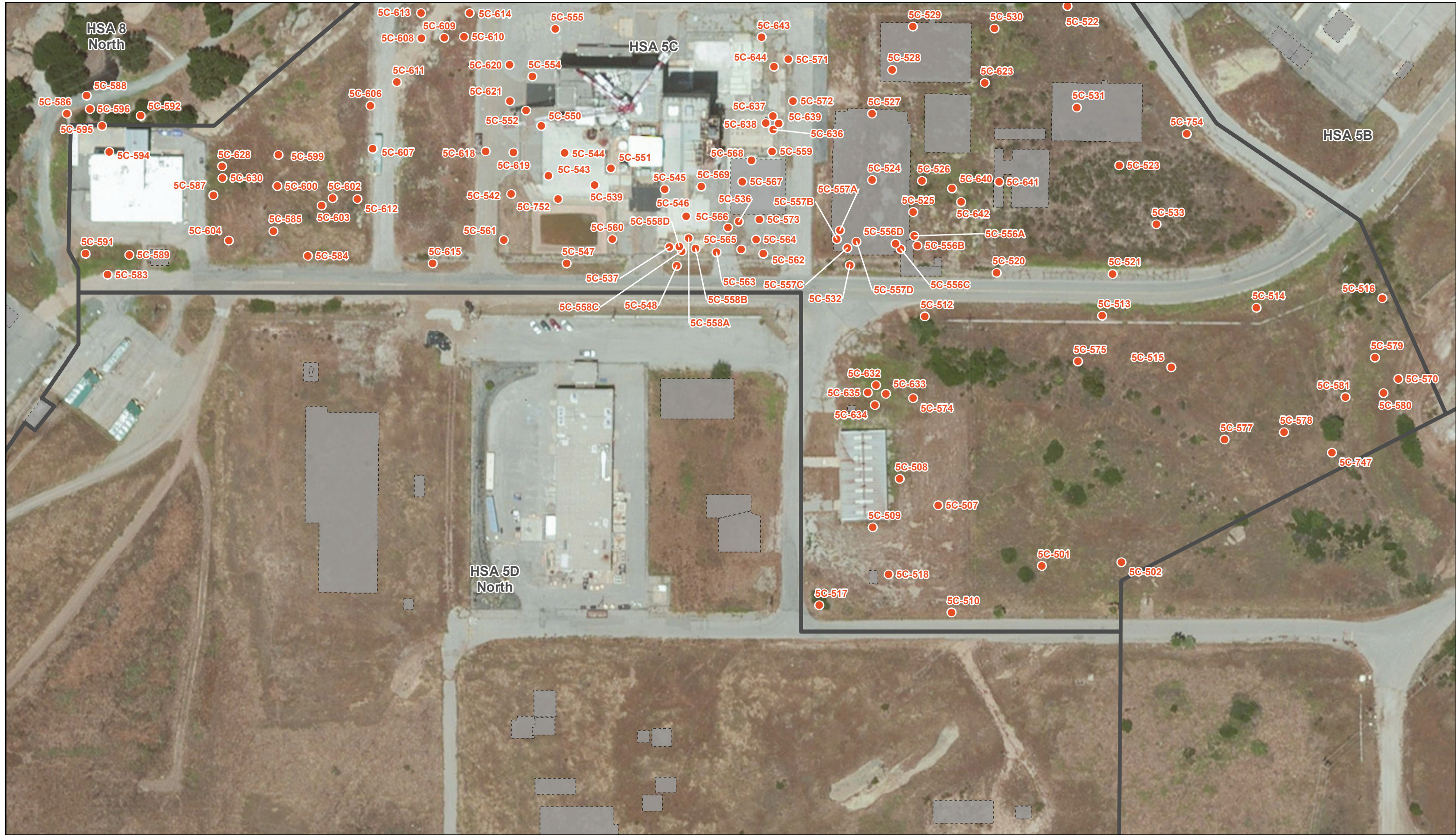
## Subarea 5C Phase 3 Sample Locations North

Santa Susana Field Laboratory  
Ventura County, California

**Figure 2-1**  
**CDM  
Smith**



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

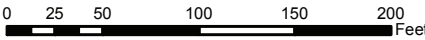
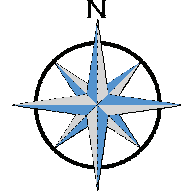


**Subarea 5C Phase 3 Sample Locations  
South**

**Legend**

- Sample Location
- Area IV Subarea
- Removed Building

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



Santa Susana Field Laboratory  
Ventura County, California

**Figure 2-2**



**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-501	Fill area east of B4015	Completes characterization in southern portion of fill area based on results observed in clearly contaminated portion of fill area.	4.9	Small fragments of concrete, asphalt, brick from 0 to 3 ft.	2012-04-20	Surface	SL-501-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613, Formaldehyde EPA 8315
					2012-06-28	Subsurface	SL-501-SA5C-SB-4.0-5.0	Dioxins EPA 1613, Formaldehyde EPA 8315, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045
5C_DG-502	Fill area east of B4015	Completes characterization in southern portion of fill area based on results observed in clearly contaminated portion of fill area.	5.7	Trace small fragments of asphalt, concrete, brick from 0 to 4 ft.	2012-04-20	Surface	SL-502-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-04-20	Surface (Duplicate)	SL-802-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-06-28	Subsurface	SL-502-SA5C-SB-4.5-5.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045
5C_DG-507	Fill area east of B4015	Step out for dioxins at SL-125 (TEQ = 73.1 ng/kg at 0.5 feet bgs) and to delineate western extent of impacts associated with the fill area to the east.	3.5	None Indicated.	2012-04-20	Surface	SL-507-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-507-SA5C-SB-2.5-3.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-508	B4015	Step out from location with elevated dioxins and low level PCBs (SL-125); location is in drainage feature downstream of dark toned material ("probable leakage" noted by EPA) observed at SL-125 location.	8.0	Igneous/metamorphic gravel from 0 to 0.5 ft. Trace red brick fragments from 4 to 8 ft.	2012-04-20	Surface	SL-508-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-508-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-508-SA5C-SB-6.5-7.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-509	South of B4015	Step out for dioxins at SL-125 (TEQ = 73.1 ng/kg) and representative sample characterizes potential storage in cleared area around B4015 observed in aerial photographs.	10	Igneous/metamorphic gravel from 0 to 0.5 ft. Trace red brick fragments from 3.4 to 4.2 ft and 7.6 to 8.2 ft.	2012-04-20	Surface	SL-509-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-509-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-06-11	Subsurface (Duplicate)	SL-809-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-509-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-510	Drainage south of B4015 Field	Location targets drainage south of B4015 field.	2.3	None Indicated.	2012-04-19	Surface	SL-510-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-512	Slope south of G Street	Characterizes slope south of G Street since adjacent to road and the site of historical soil disturbance (grading); Facility drawing indicates oiled road. Analyzed perchlorate since detected above ISLs in adjacent B4015 field.	7	Trace asphalt, black plastic visqueen, red brick from 0 to 3.5 ft. Trace red brick from 3.5 to 7.0 ft.	2012-05-10	Surface	SL-512-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-10	Surface (Duplicate)	SL-812-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-10	Subsurface	SL-512-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-10	Subsurface	SL-512-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-10	Subsurface	SL-512-SA5C-SB-6.0-7.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-10	Subsurface	SL-512-SA5C-SB-7.0	TPH-GRO EPA 8015
5C_DG-513	Slope south of G Street	Same as 5C-DG-512.	9.8	None Indicated.	2012-04-19	Surface	SL-513-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-10	Subsurface	SL-513-SA5C-SB-4.0-5.0	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-10	Subsurface	SL-513-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-14	Subsurface	SL-513-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-14	Subsurface	SL-513-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-514	Slope south of G Street	Same as 5C-DG-512.	10	None Indicated.	2012-04-17	Surface	SL-514-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-04-17	Surface (Duplicate)	SL-814-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-14	Subsurface	SL-514-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-14	Subsurface	SL-514-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-14	Subsurface	SL-514-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-14	Subsurface	SL-514-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-515	Slope south of G Street	Same as 5C-DG-512. Location also targets unidentified feature observed in aerial photo.	10	None Indicated.	2012-04-19	Surface	SL-515-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-25	Subsurface	SL-515-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, TPH-EFH EPA 8015, pH EPA 9045, Dioxins EPA 1613
					2012-06-25	Subsurface	SL-515-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-25	Subsurface	SL-515-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, TPH-EFH EPA 8015, pH EPA 9045, Dioxins EPA 1613
					2012-06-25	Subsurface	SL-515-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-516		Step out from PAH, PCBs, metals, TPH, and dioxins detections in adjacent samples. Targeted total depth based on previous sample results from nearby location.	5	None Indicated.	2012-04-19	Surface	SL-516-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-04-19	Subsurface	SL-516-SA5C-SB-4.0-5.0	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-01	Subsurface	SL-516-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-517	Storage yard area south of B4015	Representative sample characterizes potential storage in cleared area around B4015 observed in aerial photographs. Location is also downslope of/adjacent to B4373 leach field to address potential subsurface lateral migration. Analyzed formaldehyde to address potential hydrazine use in B4373 area.	1.8	None Indicated.	2012-04-19	Surface	SL-517-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-518	Storage yard area south of B4015	Representative sample characterizes potential storage in cleared area around B4015 observed in aerial photographs.	10	Trace asphalt from 0.0 to 0.5 ft. Trace igneous/metamorphic gravel from 0 to 5.0 ft. Trace red brick fragments from 4.0 to 6.4 ft.	2012-04-19	Surface	SL-518-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-518-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-518-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-519	Historical drainage feature from B4383 to drainage along road	Targets historical drainage feature observed in aerial photo. Analyze hexavalent chromium since detected above ISL in adjacent operational area. Collect/analyze samples at depth due to potential recharge and depth uncertainty associated with feature. Trench to inspect for historical drainage/fill.	N/A TRENCH	Location not sampled at this time. Trenching is scheduled for 2013.				
5C_DG-520	Historical drainage south of B4383 operational area	Targets historical drainage feature observed in aerial photo. Analyzed hexavalent chromium since detected above ISL up drainage. Collected/analyzed samples at depth due to potential recharge and depth uncertainty associated with feature.	7.8	Trace asphalt and igneous/metamorphic gravel from 0.0 to 0.5 ft.	2012-04-23	Surface	SL-520-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-520-SA5C-SB-6.5-7.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
5C_DG-521	Historical drainage south of B4383 operational area	Targets historical drainage feature observed in aerial photo. Analyzed hexavalent chromium since detected above ISL up drainage. Collected/analyzed samples at depth due to potential recharge and depth uncertainty associated with feature.	10	Trace asphalt from 0.0 to 0.25 ft. Trace red brick fragments from 4.0 to 6.0 ft.	2012-06-11	Surface	SL-521-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-521-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-521-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
5C_DG-522	North of B4483	Characterized disturbed areas observed in aerial photos.	10	Trace igneous/metamorphic gravel and trace red brick fragments from 0 to 4.0 ft.	2012-04-25	Surface	SL-522-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-522-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface (Duplicate)	SL-822-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-522-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-523	South of B4483	Characterized disturbed areas observed in aerial photos.	10	Trace asphalt and igneous/metamorphic gravel from 0.0 to 3.0 ft. Trace red brick fragments from 3.0 to 4.0 ft.	2012-04-25	Surface	SL-523-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-523-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-523-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-524	B4383 operational area	Step out samples delineate mercury and PCB detections at B4383 operational/soil disturbance area (Hg up to 0.958 ppm at SL-107). Samples not collected at 10 feet based on surficial release indicated by previous results (i.e. lack of mercury above background or detected PCBs at depth).	5.1	Trace concrete and igneous/metamorphic gravel from 0.0 to 4.0 ft.	2012-04-24	Surface	SL-524-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-524-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-524-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-525	B4383 operational area	Step out samples delineate mercury and PCB detections at B4383 operational/soil disturbance area (Hg up to 0.958 ppm at SL-107). Sample also targets area north of B4383 where historical aerial photos indicate activity and possible storage.	10	Trace asphalt and concrete from 0.0 to 0.5 ft. Trace igneous/metamorphic gravel red brick fragments from 0.0 to 6.0 ft.	2012-04-24	Surface	SL-525-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-525-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-525-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-19	Subsurface	SL-525-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-525-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-526	B4383 operational area	Step out samples delineate mercury and PCB detections at B4383 operational/soil disturbance area (Hg up to 0.958 ppm at SL-107). PAHs and TPH included for representative coverage in operational area.	10	Trace asphalt and igneous/metamorphic gravel from 0.0 to 4.0 ft.	2012-04-25	Surface	SL-526-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-526-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-526-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-19	Subsurface	SL-526-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-526-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-527	B4383 operational area	Step out samples delineate mercury and PCB detections at B4383 operational/soil disturbance area (Hg up to 0.958 ppm at SL-107). PAHs and TPH included for representative coverage in operational area. Samples not collected at 10 feet based on surficial release indicated by previous results (i.e. lack of mercury above background or detected PCBs at depth).	5	Trace igneous/metamorphic gravel and red brick fragments from 0.0 to 0.5 ft.	2012-04-25	Surface	SL-527-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-527-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-527-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-528	B4383 operational area	Same as 5C_DG-27.	5.1	Trace igneous/metamorphic gravel and red brick fragments from 0.0 to 5.0 ft.	2012-04-25	Surface	SL-528-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-528-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface (Duplicate)	SL-828-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-528-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-19	Subsurface (Duplicate)	SL-828-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-529	B4383 operational area	Same as 5C_DG-27.	5.1	Trace igneous/metamorphic gravel and red brick fragments from 0.0 to 5.0 ft.	2012-04-25	Surface	SL-529-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-09	Subsurface	SL-529-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-10	Subsurface	SL-529-SA5C-SB-5.0	TPH-GRO EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-530	East of B4486	Characterizes disturbed areas observed in aerial photos and step out for Hg detect at SL-099.	9.8	Trace igneous/metamorphic gravel and red brick fragments from 0.0 to 0.5 ft.	2012-04-25	Surface	SL-530-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-530-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-530-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-531	B4483	Characterizes disturbed areas observed in aerial photos.	10.2	Trace red brick fragments from 0.0 to 7.5 ft.	2012-04-25	Surface	SL-531-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-531-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-531-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-532	Storm drain southwest of B4383	Step out for dioxins, PAHs, PCBs, metals at SL-114 (12.8 ppt). Field verified for precise location based on storm drain sample.	0.5	Asphalt, wood, igneous/metamorphic gravel, red paint chips from 0.0 to 0.5 ft.	2012-04-23	Surface	SL-532-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
5C_DG-533	South of B4483	Characterizes disturbed areas observed in aerial photos.	10.2	Trace red brick fragments and black charcoal from 4.0 to 7.5 ft.	2012-04-23	Surface	SL-533-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-533-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-533-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-534	Historical drainage east of B4383 operational area	Targets historical drainage feature observed in aerial photo. Collect/analyze samples at depth due to potential recharge and depth uncertainty associated with feature.	N/A UTILITIES	Soil boring located along underground utility corridor. Locations will be sampled after removal of sub terrain utilities.				
5C_DG-535	Historical drainage east of B4383 operational area	Targets historical drainage feature observed in aerial photo; located at confluence with historical drainage leading from B4011 operational area observed in 1959/1960 aerial photo. Collect/analyze samples at depth due to potential recharge and depth uncertainty associated with feature.	N/A UTILITIES	Soil boring located along underground utility corridor. Locations will be sampled after removal of sub terrain utilities.				
5C_DG-536	Unknown tank south of B4461	Unknown tank identified during site wide aerial photo review; analyze for SPTF suite. PCBs, dioxins added as step out for detection at SL-096. PAHs added to delineate detections at SL-096 and U5BS1053.	10	5% igneous/metamorphic gravel from 0.0-10.0 ft.	2012-05-08	Surface	SL-536-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-01	Subsurface	SL-536-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-01	Subsurface	SL-536-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-01	Subsurface	SL-536-SA5C-SB-9.0-10.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-01	Subsurface	SL-536-SA5C-SB-10.0	TPH-GRO EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-537	Unknown tank south of B4461	Unknown tank identified during site wide aerial photo review; analyze for SPTF suite. Location addresses potential surface release related to AST.	10	Trace igneous/metamorphic gravel and red brick fragments from 0.0 to 0.5 ft. Trace red brick fragments from 0.5 to 6.0 ft.	2012-06-07	Surface	SL-537-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-07	Subsurface	SL-537-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-07	Subsurface	SL-537-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-07	Subsurface	SL-537-SA5C-SB-9.0-10.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-07	Subsurface	SL-537-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-538	Historical drainage east of B4383 operational area	Sample near former location L2BS1400 to target historical drainage collection feature observed in aerial photo near road (at apparent culvert). Excavate exploratory trench to inspect soil for fill, sediments, staining, and other indications of historical drainages and/or impacts. Serves to characterize potential runoff from upstream drainages/operational areas and is upstream/upslope of elevated results (e.g., SL-116-SA5C, SL-117-SA5C, SL-179-SA5B). Collect/analyze (no hold) samples at depth due to potential recharge and depth/location uncertainty associated with feature.	N/A TRENCH	Location not sampled at this time. Trenching is scheduled for 2013.				
5C_DG-539	Storage area north of Alcohol Drainage Pond	Representative sample completes characterization of open storage area.	7.9	Concrete from 0.0 to 1.0 ft. Road base from 1.0 to 1.5 ft.	2012-06-05	Surface	SL-539-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-05	Subsurface	SL-539-SA5C-SB-6.0-7.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-05	Subsurface	SL-539-SA5C-SB-7.0	TPH-GRO EPA 8015
5C_DG-540	Historical drainage east of B4383 operational area	Targets historical drainage feature observed in aerial photo. Collect/analyze samples at depth due to potential recharge and depth uncertainty associated with feature.	N/A UTILITIES	Soil boring located along underground utility corridor. Locations will be sampled after removal of sub terrain utilities.				
5C_DG-542	North of B4662 pad	Step out delineates surficial impact of PAHs, lead, hexavalent chromium, and dioxins at B4462 pad.	2.3	Concrete, glass, igneous/metamorphic gravel from 0.0 to 0.5 ft. Igneous/metamorphic gravel from 0.5 to 2.0 ft.	2012-05-09	Surface	SL-542-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
					2012-05-09	Subsurface	SL-542-SA5C-SB-1.0-2.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
5C_DG-543	Storage area north of Alcohol Drainage Pond	Representative sample completes characterization of open storage area; also targets drainage swale north of the pond.	4.3	Concrete from 0.0 to 0.8 ft. Igneous/metamorphic gravel (road base) from 0.8 to 1.5 ft.	2012-06-05	Surface	SL-543-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-05	Subsurface	SL-543-SA5C-SB-3.5-4.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-05	Subsurface	SL-543-SA5C-SB-4.5	TPH-GRO EPA 8015
5C_DG-544	Storage area north of Alcohol Drainage Pond	Representative sampling completes characterization of open storage area.	6.7	Concrete from 0.0 to 0.8 ft. Igneous/metamorphic gravel and concrete pieces from 0.8 to 2.0 ft.	2012-05-30	Surface	SL-544-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-30	Subsurface	SL-544-SA5C-SB-5.0-6.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-30	Subsurface	SL-544-SA5C-SB-6.0	TPH-GRO EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-545	Petroleum tank south of B4462	Representative sampling completes characterization of open storage area. Targets petroleum storage tank. PAHs will delineate detects at U5BS1052 (2,080 ppb of B(a)P). Location assesses potential for surface release and delineates surficial impacts.	10	Asphalt from 0.0 to 0.25 ft. Trace red brick fragments and igneous/metamorphic gravel from 0.25 to 2.0 ft. Igneous/metamorphic gravel from 9.0 to 10.0 ft.	2012-06-04	Surface	SL-545-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-04	Subsurface	SL-545-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-04	Subsurface	SL-545-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-04	Subsurface	SL-545-SA5C-SB-9.0-10.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-04	Subsurface	SL-545-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-546	South of B4462	Representative sampling completes characterization of open storage area. PAHs delineate detects at U5BS1052 (1,000 ppb of B(a)P).	10	Concrete from 0.0 to 0.4 ft. Igneous/metamorphic gravel (road base) from 0.4 to 1.0 ft.	2012-06-06	Surface	SL-546-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-06	Subsurface	SL-546-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-06	Subsurface (Duplicate)	SL-846-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-06	Subsurface	SL-546-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-06	Subsurface (Duplicate)	SL-846-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-06	Subsurface	SL-546-SA5C-SB-9.0-10.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-547	Drainage south of Alcohol Drainage Pond	Location targets drainage swale feature. Hexavalent chromium included to delineate down drainage detection above ISL. Sample analyzed at depth to assess vertical migration in a potential recharge feature.	10.2	Asphalt from 0.0 to 0.5 ft. Trace igneous/metamorphic gravel from 0.0 to 4.0 ft. Trace red brick fragments from 4.0 to 8.0 ft.	2012-05-08	Surface	SL-547-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199
					2012-06-07	Subsurface	SL-547-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199
					2012-06-07	Subsurface	SL-547-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-07	Subsurface	SL-547-SA5C-SB-9.0-10.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals
					2012-06-07	Subsurface	SL-547-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-548	Drainage south of Alcohol Drainage Pond	Location targets drainage swale feature. Hexavalent chromium included to delineate down drainage detection above ISL. Analyze samples at depth to assess vertical migration in a potential recharge feature.	10.2	Trace asphalt, red brick fragments, and igneous/metamorphic gravel from 0.0 to 5.0 ft.	2012-05-08	Surface	SL-548-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199
					2012-06-07	Subsurface	SL-548-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199
					2012-06-07	Subsurface	SL-548-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-07	Subsurface	SL-548-SA5C-SB-9.0-10.0	Hexavalent Chromium EPA 7196/7199, Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-07	Subsurface	SL-548-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-550	Unknown tank west of B4463	Sample targets storage tanks with unknown contents and addresses potential surface release from tank.	2.4	Asphalt from 0.0 to 0.08 ft.	2012-05-30	Surface	SL-550-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015

Table 2-1  
Soil Samples Collected from Subarea 5C - Phase 3

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-551	Alcohol AST south of B4463	Sample targets alcohol storage tank and addresses potential surface release from tank; no previous sample collected.	5.3	Concrete from 0.0 to 0.8 ft. Igneous/metamorphic gravel (road base) from 0.8 to 1.4 ft.	2012-06-05	Surface	SL-551-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-05	Subsurface	SL-551-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-05	Subsurface	SL-551-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-552	Unknown tank west of B4463	Sample targets storage tank with unknown contents identified during site wide aerial photo review and location addresses potential surface release from tank.	1	Asphalt from 0.0 to 0.3 ft. Trace igneous/metamorphic gravel from 0.3 to 1.0	2012-06-05	Surface	SL-552-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-554	Unknown tank west of B4463	Sample targets storage tank with unknown contents identified during site wide aerial photo review and addresses potential surface release from tank.	2	Asphalt from 0.0 to 0.25 ft. Asphalt and concrete from 0.25 to 0.33 ft. Igneous/metamorphic gravel from 0.33 to 2.0 ft.	2012-05-29	Surface	SL-554-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-555	Unknown tank north of B4463	Sample targets storage tank with unknown contents identified during site wide aerial photo review and addresses potential surface release from tank.	3.5	Asphalt from 0.0 to 0.25 ft. Pieces of asphalt, concrete, igneous/metamorphic gravel from 0.25 to 3.5 ft.	2012-05-29	Surface	SL-555-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-29	Subsurface	SL-555-SA5C-SB-2.5-3.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-29	Subsurface	SL-555-SA5C-SB-3.5	TPH-GRO EPA 8015
5C_DG-556A	Transformer SE of B4487	Previous sample was a composite of four discrete samples with ND result. Transformers in Area IV with previous ND results were resampled with discrete samples. Recollected samples at four former discrete locations and analyzed each sample for PCBs.	1	Asphalt, concrete, wood, red brick fragments, igneous/metamorphic gravel from 0.0 to 1.0 ft.	2012-04-24	Surface	SL-556A-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
2012-05-15	Subsurface				SL-556A-SA5C-SB-0.5-1.0	PCBs/PCTs EPA 8082		
5C_DG-556B	Transformer SE of B4487		3	Trace asphalt and igneous/metamorphic gravel from 0.0 to 1.2 ft. Trace red brick fragments from 1.2 to 3.0 ft.	2012-04-24	Surface	SL-556B-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-05-15	Subsurface	SL-556B-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
5C_DG-556C	Transformer SE of B4487		3	Trace asphalt and igneous/metamorphic gravel from 0.0 to 1.6 ft. Trace red brick fragments from 1.6 to 3.0 ft.	2012-04-24	Surface	SL-556C-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-05-15	Subsurface	SL-556C-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
5C_DG-556D	Transformer SE of B4487	3	Concrete, igneous/metamorphic gravel, red brick fragments, asphalt, tar-like material from 0.0 to 3.0 ft.	2012-04-24	Surface	SL-556D-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082	
				2012-04-24	Surface (Duplicate)	SL-856D-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082	
				2012-05-15	Subsurface	SL-556D-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082	
				2012-05-15	Subsurface (Duplicate)	SL-856D-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082	

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses			
5C_DG-557A	Transformer SW of B4487	Same as 5C_DG-556A.	3	Trace igneous/metamorphic gravel from 0.0 to 3.0 ft.	2012-04-24	Surface	SL-557A-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082			
					2012-05-15	Subsurface	SL-557A-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082			
5C_DG-557B	Transformer SW of B4487		3	Trace igneous/metamorphic gravel from 0.0 to 1.0 ft. Trace red brick fragments from 1.0 to 3.0 ft.	2012-04-24	Surface	SL-557B-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082			
					2012-05-15	Subsurface	SL-557B-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082			
5C_DG-557C	Transformer SW of B4487		3	Trace igneous/metamorphic gravel, concrete, red brick fragments from 0.0 to 3.0 ft.	2012-04-24	Surface	SL-557C-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082			
					2012-05-15	Subsurface	SL-557C-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082			
5C_DG-557D	Transformer SW of B4487		3	Trace igneous/metamorphic gravel, concrete, asphalt from 0.0 to 3.0 ft.	2012-04-24	Surface	SL-557D-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082			
					2012-05-15	Subsurface	SL-557D-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082			
5C_DG-558A	Transformer S of B4462	Same as 5C_DG-556A.	3	Igneous/metamorphic gravel and concrete from 0.0 to 3.0 ft.	2012-06-01	Surface	SL-558A-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082			
5C_DG-558B	Transformer S of B4462				2012-06-01	Subsurface	SL-558A-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082			
			5C_DG-558C	Transformer S of B4462	4.5	Igneous/metamorphic gravel and concrete from 0.0 to 4.5 ft.	2012-06-01	Surface	SL-558B-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082	
2012-06-01	Subsurface	SL-558B-SA5C-SB-2.0-3.0					PCBs/PCTs EPA 8082				
5C_DG-558D	Transformer S of B4462	Same as 5C_DG-556A.	3.4	Igneous/metamorphic gravel and concrete from 0.0 to 3.4 ft.	2012-06-01	Surface	SL-558C-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082			
					2012-06-01	Subsurface	SL-558C-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082			
5C_DG-559	Unknown tanks east of B4462	Targets three ASTs with unknown contents. PCBs targets discrete location due to detection at composite sample U5B11014.	8	Asphalt from 0.0 to 0.17 ft. Trace igneous/metamorphic gravel and red brick fragments from 0.17 to 5.0 ft.	2012-06-01	Surface	SL-558D-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082			
5C_DG-559	Drainage swale east of pond				Targets drainage swale feature. Hexavalent chromium included to delineate detection to the north and targets lined asphalt swale.	7.5	Asphalt from 0.0 to 0.25 ft. Igneous/metamorphic gravel from 0.25 to 4.0 ft.	2012-06-07	Surface	SL-559-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
								2012-06-07	Subsurface	SL-559-SA5C-SB-2.0-3.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
								2012-06-07	Subsurface	SL-559-SA5C-SB-3.0	TPH-GRO EPA 8015
								2012-06-07	Subsurface	SL-559-SA5C-SB-7.0-8.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-560	Drainage swale east of pond	Targets drainage swale feature. Hexavalent chromium included to delineate detection to the north and targets lined asphalt swale.	7.5	Asphalt from 0.0 to 0.25 ft. Igneous/metamorphic gravel from 0.25 to 4.0 ft.	2012-06-07	Subsurface	SL-559-SA5C-SB-8.0	TPH-GRO EPA 8015			
					2012-05-30	Surface	SL-560-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199			
					2012-05-30	Subsurface	SL-560-SA5C-SB-6.5-7.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199			
					2012-05-30	Subsurface	SL-560-SA5C-SB-7.5	TPH-GRO EPA 8015			

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-561	Drainage swale west of pond	Targets drainage swale feature and step out for dioxins to the north.	6.7	Asphalt from 0.0 to 0.25 ft.	2012-06-05	Surface	SL-561-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
					2012-06-05	Subsurface	SL-561-SA5C-SB-5.5-6.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
					2012-06-05	Subsurface	SL-561-SA5C-SB-6.5	TPH-GRO EPA 8015
5C_DG-562	South of B4462	Step out delineates PAHs at U5BS1053.	10	Igneous/metamorphic gravel from 0.0 to 10.0 ft.	2012-06-01	Surface	SL-562-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-01	Subsurface	SL-562-SA5C-SB-4.0-5.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-01	Subsurface	SL-562-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-01	Subsurface	SL-562-SA5C-SB-9.0-10.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-01	Subsurface	SL-562-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-563	South of B4462	Step out delineates PAHs at SL-095 and U5BS1053.	10	Asphalt from 0.0 to 0.5 ft. Igneous/metamorphic gravel from 0.5 to 10.1 ft.	2012-06-01	Sur	SL-563-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-01	Subsurface	SL-563-SA5C-SB-4.0-5.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-01	Subsurface	SL-563-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-01	Subsurface	SL-563-SA5C-SB-9.0-10.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-01	Subsurface	SL-563-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-564	South of B4462	PCBs, dioxins to delineate detections at SL-096. PAHs delineate detections at SL-096 and U5BS1053. No detections above ISLs at depth in adjacent samples.	10	Asphalt from 0.0 to 0.5 ft. Trace red brick fragments from 0.0 to 10.0 ft. Trace igneous/metamorphic gravel from 3.0 to 5.5 ft.	2012-06-04	Sur	SL-564-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Dioxins EPA 1613
					2012-06-04	Subsurface	SL-564-SA5C-SB-4.0-5.0	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Dioxins EPA 1613
					2012-06-04	Subsurface	SL-564-SA5C-SB-9.0-10.0	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Dioxins EPA 1613
5C_DG-565	South of B4462	Same as 5C_DG-564.	10	Trace red brick fragments from 0.0 to 3.5 ft. Trace igneous/metamorphic gravel from 3.5 to 8.0 ft.	2012-06-04	Surface	SL-565-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Dioxins EPA 1613
					2012-06-04	Subsurface	SL-565-SA5C-SB-4.0-5.0	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Dioxins EPA 1613
					2012-06-04	Subsurface	SL-565-SA5C-SB-9.0-10.0	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Dioxins EPA 1613
5C_DG-566	South of B4462	Same as 5C_DG-564.	10	Trace asphalt from 0.0 to 2.0 ft. Trace red brick fragments from 2.0 to 4.0 ft. Trace igneous/metamorphic gravel from 0.0 to 10.1 ft.	2012-05-08	Surface	SL-566-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Dioxins EPA 1613
					2012-06-04	Subsurface	SL-566-SA5C-SB-4.0-5.0	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Dioxins EPA 1613
					2012-06-04	Subsurface	SL-566-SA5C-SB-9.0-10.0	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Dioxins EPA 1613
5C_DG-567	Southeast of B4462	Sample location delineates eastern extent of PAHs - highest value of 2,080 ppb of B(a)P (U5BS1052). Analyze dioxins since detections to the south.	3.9	Concrete from 0.0 to 0.5 ft. Trace red brick fragments from 0.5 to 3.9 ft.	2012-06-06	Surface	SL-567-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, Dioxins EPA 1613
					2012-06-06	Subsurface	SL-567-SA5C-SB-3.0-4.0	PAH EPA 8270 SIM, Dioxins EPA 1613
5C_DG-568	Southeast of B4462	Sample location delineates eastern extent of PAHs. Targeted north door of B4461 - Cr(VI) and formaldehyde due to evaporative cooler operation in bldg. Analyze samples at 0.5 and 5 feet due to detects at SL-088.	10.2	Concrete from 0.0 to 0.7 ft. Igneous/metamorphic gravel from 0.7 to 1.4 ft.	2012-06-06	Surface	SL-568-SA5C-SB-0.0-0.5	Hexavalent Chromium EPA 7196/7199, PAH EPA 8270 SIM, Formaldehyde EPA 8315
					2012-06-06	Subsurface	SL-568-SA5C-SB-4.0-5.0	Hexavalent Chromium EPA 7196/7199, PAH EPA 8270 SIM, Formaldehyde EPA 8315
					2012-06-06	Subsurface	SL-568-SA5C-SB-9.0-10.0	Hexavalent Chromium EPA 7196/7199, PAH EPA 8270 SIM, Formaldehyde EPA 8315
5C_DG-569	Southeast of B4462	Co-located dioxins with highest B(a)P value (U5BS1052).	5.1	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 1.0 ft.	2012-06-04	Surface	SL-569-SA5C-SB-0.0-0.5	Dioxins EPA 1613
					2012-06-04	Subsurface	SL-569-SA5C-SB-4.0-5.0	Dioxins EPA 1613
5C_DG-570	Eastern drainage east of B4015 Field	Step out upstream of SL-145. Full analytical suite addresses collection area and accounts for possible attenuation in downstream sample.	3.6	Trace igneous/metamorphic gravel from 0.0 to 3.6 ft.	2012-04-18	Surface	SL-570-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Formaldehyde EPA 8315, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-01	Subsurface	SL-570-SA5C-SB-1.5	TPH-GRO EPA 8015
					2012-04-18	Subsurface	SL-570-SA5C-SB-2.0-3.0	Dioxins EPA 1613, Formaldehyde EPA 8315, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-571	East of B4462	Targets unknown tank, complete suite for characterization (previously sampled for VOCs and TPH). Analyzed sample at 0.5 feet due to potential for surficial release (based on TPH in previous sample).	10.2	Asphalt from 0.0 to 0.5 ft. Trace igneous/metamorphic gravel from 0.0 to 1.5 ft. Trace red brick fragments from 0.0 to 2.5 ft.	2012-04-26	Surface	SL-571-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-07	Subsurface	SL-571-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-07	Subsurface	SL-571-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-07	Subsurface	SL-571-SA5C-SB-9.0-10.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-07	Subsurface	SL-571-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-572	Drainage east of B4462	Targets drainage east of operational area of B4462; also serves as step out for PCB detections to the north.	5.4	Asphalt and igneous/metamorphic gravel from 0.0 to 0.25 ft. Trace red brick/pipe fragments from 0.25 to 1.2 ft.	2012-06-19	Surface	SL-572-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-572-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface (Duplicate)	SL-872-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-19	Subsurface	SL-572-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-19	Subsurface (Duplicate)	SL-872-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-573	Southern door of B4461 pad	Targets southern door; Cr(VI) and formaldehyde due to evaporative cooler in B4461. Completes SPTF analytical suite (PCBs, alcohols, glycols).	10	Asphalt from 0.0 to 0.25 ft. Trace red brick fragments from 0.25 to 2.0 ft.	2012-06-04	Surface	SL-573-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, PCBs/PCTs EPA 8082, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Formaldehyde EPA 8315
					2012-06-04	Subsurface	SL-573-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, PCBs/PCTs EPA 8082, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Formaldehyde EPA 8315
					2012-06-04	Subsurface	SL-573-SA5C-SB-9.0-10.0	Alcohols EPA 8015, Glycols EPA 8015, PCBs/PCTs EPA 8082, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Formaldehyde EPA 8315
5C_DG-574	North of B4015	Representative sampling in storage area identified during site wide aerial photo review. Location also targets linear unidentified feature from site wide aerial photo review (possible pipeline).	10	Asphalt and igneous/metamorphic gravel from 0.0 to 0.5 ft. Trace red brick/pipe fragments and black charcoal from 0.5 to 10.0 ft.	2012-04-20	Surface	SL-574-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045
					2012-06-11	Subsurface	SL-574-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-574-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-575	Drainage bank north of potential fill area	Bank sample delineates detections in drainage; includes analyses of other chemicals detected in area.	7.2	None Indicated.	2012-04-19	Surface	SL-575-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-25	Subsurface	SL-575-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-576	Potential fill area east of B4015	Sample characterizes northern extent of potential fill area. Representative location analyzed for formaldehyde (as breakdown product of hydrazine) due to low level (less than ISL) concentrations of NDMA.	N/A TRENCH	Location not sampled at this time. Trenching is scheduled for 2013.				
5C_DG-577	Drainage bank north of potential fill area	Bank sample delineates detections in drainage; included analyses of other chemicals detected in area.	2.5	None Indicated.	2012-04-17	Surface	SL-577-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-578	Central area between drainages east of B4015	Representative sampling targets disturbed area.	5.2	None Indicated.	2012-04-17	Surface	SL-578-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-06-27	Subsurface	SL-578-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-579	Area between drainages east of B4015 field.	Delineates PAHs, dioxins, PCBs. Also assesses potential impacts from adjacent reclaimed water spray fields.	5	5% igneous/metamorphic gravel from 0.0 to 3.0 ft.	2012-04-18	Surface	SL-579-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613, Formaldehyde EPA 8315
					2012-04-18		SL-579-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613, Formaldehyde EPA 8315
					2012-05-01	Subsurface	SL-579-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-580	Area between drainages east of B4015 field.	Same as 5C_DG-579.	5	Trace igneous/metamorphic gravel and asphalt from 0.0 to 0.5 ft. Trace brick fragments from 3.0 to 4.0 ft.	2012-04-18	Surface	SL-580-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Formaldehyde EPA 8315, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199
					2012-04-18	Subsurface	SL-580-SA5C-SB-4.0-5.0	Dioxins EPA 1613, Formaldehyde EPA 8315, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199
					2012-05-01	Subsurface	SL-580-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-581	Area between drainages east of B4015 field.	Same as 5C_DG-579. Note: Drainage ditch morphology and potential presence of bank deposits were evaluated in the field and samples proposed as needed to delineate extent of cleanup.	5	None Indicated.	2012-04-17	Surface	SL-581-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613, Formaldehyde EPA 8315
					2012-06-26	Subsurface	SL-581-SA5C-SB-4.0-5.0	Dioxins EPA 1613, Formaldehyde EPA 8315, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, pH EPA 9045
					2012-06-26	Subsurface	SL-581-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-26	Subsurface	SL-881-SA5C-SB-4.0-5.0	Dioxins EPA 1613, Formaldehyde EPA 8315, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, pH EPA 9045
					2012-06-26	Subsurface	SL-881-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-583	South of B4100	Step out from SL-073, SL-074 for dioxins(3.07 ppt), metals, PAHs (chrysene detected at 1.11 ISL; however elevated B(a)P RLs combined with dioxins at > 31 BG indicates potential for PAHs).	5.3	Asphalt from 0.0 to 0.17 ft. Trace igneous/metamorphic gravel from 0.17 to 0.5 ft.	2012-07-24	Surface	SL-583-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, Dioxins EPA 1613
					2012-07-24	Subsurface	SL-583-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, Dioxins EPA 1613
5C_DG-584	Field East of B4100	Step out from SL-076 and SL-077 for PAHs. Representative sample in open storage area. Dioxins not selected since not generally detected above background outside the fill area.	5	5% concrete and charcoal from 0.0 to 1.8 ft.	2012-05-03	Surface	SL-584-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-21	Subsurface	SL-584-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-21	Subsurface	SL-584-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-585	Field East of B4100	Same as 5C_DG-584. Location also targets unidentified feature observed in 1967 aerial photograph.	5	Asphalt pieces from 0.0 to 2.0 ft. Igneous/metamorphic gravel, asphalt pieces, red brick fragments from 2.0 to 5.0 ft.	2012-05-02	Surface	SL-585-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-21	Subsurface	SL-585-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-21	Subsurface	SL-585-SA5C-SB-5.0	TPH-GRO EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-586	Drainage northwest of B4100	Sample targets discharge of drainage swale surrounding perimeter of B4100. Step out for dioxin detections at SL-056 and SL-057 (TEQ = 126.7 ng/kg and 229.3 ng/kg, respectively). Analyzed for chemicals detected around building.	10	Asphalt/concrete from 0.0 to 0.3 ft. Trace igneous/metamorphic gravel from 0.3 to 5.8 ft. Trace red brick fragments from 3.0 to 5.8 ft.	2012-05-07	Surface	SL-586-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-07-11	Subsurface	SL-586-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-07-11	Subsurface	SL-586-SA5C-SB-4.5	TPH-GRO EPA 8015
					2012-07-11	Subsurface	SL-586-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-07-11	Subsurface	SL-586-SA5C-SB-9.5	TPH-GRO EPA 8015
5C_DG-587	Sanitary sewer line east of B4100	Sample targets sanitary line leaving B4100; general suite. No septic tank or leach field were found during the liquid waste holdup tank removal in 2001 and the sanitary line was observed to terminate at fence line. Sample location targets end of known septic line and also lined drainage surrounding B4100.	9.7	Igneous/metamorphic gravel from 0.0 to 9.7 ft.	2012-05-02	Surface	SL-587-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-20	Subsurface	SL-587-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-20	Subsurface	SL-587-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-20	Subsurface	SL-587-SA5C-SB-8.5-9.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-20	Subsurface	SL-587-SA5C-SB-9.5	TPH-GRO EPA 8015
					2012-06-20	Subsurface (Duplicate)	SL-887-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-20	Subsurface (Duplicate)	SL-887-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-20	Subsurface (Duplicate)	SL-887-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-588	North of B4100	Step out location for dioxins (126.7 ppt and 229.3 ppt). Due to surficial nature of previous detections, placed samples at 5 and 10 feet bgs.	10	Trace igneous/metamorphic gravel from 0.0 to 0.17 ft.	2012-05-07	Surface	SL-588-SA5C-SB-0.0-0.5	Dioxins EPA 1613
					2012-07-11	Subsurface	SL-588-SA5C-SB-4.0-5.0	Dioxins EPA 1613
					2012-07-11	Subsurface	SL-588-SA5C-SB-9.0-10.0	Dioxins EPA 1613
5C_DG-589	South of B4100	Same as 5C_DG-583. Note: SL-073 is described as a shallow sample (drainage).	5.2	Trace igneous/metamorphic gravel from 0.0 to 0.5 ft.	2012-05-07	Subsurface	SL-589-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, Dioxins EPA 1613
					2012-07-11	Subsurface	SL-589-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, Dioxins EPA 1613
5C_DG-590A	South of B4100	Previous sample was a composite of four discrete samples (ND with elevated RLs). Transformers in Area IV with previous ND results were resampled with discrete samples. Recollected samples at four former discrete locations and analyzed each sample for PCBs.	N/A ACTIVE TRANSFORMERS					Locations next to live transformer. Samples will be collected after removal of transformers.
5C_DG-590B	South of B4100							
5C_DG-590C	South of B4100							
5C_DG-590D	South of B4100							

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-591	South of B4100	Same as 5C_DG-583. Location also targets drainage.	5.1	Trace igneous/metamorphic gravel and red brick from 0.0 to 2.0 ft.	2012-05-02	Surface	SL-591-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, Dioxins EPA 1613
					2012-07-11	Subsurface	SL-591-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, Dioxins EPA 1613
5C_DG-592	North of B4100	Step out location for dioxins (126.7 ppt and 229.3 ppt) and metals at SL-056 and SL-057 (lead and zinc).	6.2	Trace igneous/metamorphic gravel at 0.0 ft.	2012-05-07	Surface	SL-592-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, pH EPA 9045, Dioxins EPA 1613
					2012-05-07	Subsurface	SL-592-SA5C-SB-0.5	1,4 Dioxane EPA 8260 SIM, TPH-GRO EPA 8015, VOC EPA 8260
					2012-07-11	Subsurface	SL-592-SA5C-SB-5.0-6.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, pH EPA 9045, Dioxins EPA 1613
5C_DG-594	North of B4100	Step out location for dioxins at SL-056 and SL-057 (126.7 ppt and 229.3 ppt, respectively); also served to assess the area near a large roll up door. Other analytical suites added due to potential sodium cleaning in area. Targeted potential surficial release and shallow detections in previous data.	10	Concrete from 0.0 to 0.42 ft. Trace igneous/metamorphic gravel and asphalt pieces from 0.42 to 10.0 ft.	2012-06-21	Surface	SL-594-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-21	Subsurface	SL-594-SA5C-SB-5.0-6.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-21	Subsurface	SL-594-SA5C-SB-6.0	1,4 Dioxane EPA 8260 SIM, TPH-GRO EPA 8015, VOC EPA 8260
					2012-06-21	Subsurface	SL-594-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-21	Subsurface	SL-594-SA5C-SB-9.0	1,4 Dioxane EPA 8260 SIM, TPH-GRO EPA 8015, VOC EPA 8260
5C_DG-595	North of B4100	Co-locate sample location at SL-056-SA5C. Collected samples from 1 to 3 feet bgs to assess vertical migration of large molecular weight contaminants (PCBs, dioxins).	3	Trace igneous/metamorphic gravel and asphalt from 0.0 to 3.0 ft.	2012-05-07	Subsurface	SL-595-SA5C-SB-1.0-2.0	PCBs/PCTs EPA 8082, Dioxins EPA 1613
					2012-05-07	Subsurface	SL-595-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082, Dioxins EPA 1613
5C_DG-596	North of B4100	Co-locate sample location at BHBS0007. Collected samples at 2 and 3 feet bgs to assess vertical migration of large molecular weight contaminants (dioxins).	3.5	5% limestone gravel (road base) from 0.0 to 3.0 ft.	2012-05-03	Subsurface	SL-596-SA5C-SB-2.0-3.0	Dioxins EPA 1613
					2012-05-03	Subsurface	SL-596-SA5C-SB-3.0-4.0	Dioxins EPA 1613
5C_DG-598	Field east of B4100	Representative sample in debris / fill area. Analytical suites selected since detected in other portions of the fill area. Excavate exploratory trench and collect samples at depth/location based on field observations.	N/A TRENCH	Location not sampled at this time. Trenching is scheduled for 2013.				
5C_DG-599	Field east of B4100	Representative sample in storage / debris / fill area. Analytical suites selected based on those detected in other portions of the fill area. Total depth based on previous data.	5	None Indicated.	2012-05-02	Surface	SL-599-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-21	Subsurface	SL-599-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-21	Subsurface	SL-599-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-600	Field east of B4100	Representative sample in open storage area.	4.9	Trace igneous/metamorphic gravel from 3.0 to 4.9 ft.	2012-05-02	Surface	SL-600-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-21	Subsurface	SL-600-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-21	Subsurface	SL-600-SA5C-SB-5.0	TPH-GRO EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-601	Field east of B4100	Co-located sample completes the analytical suite at elevated silver detect (5.6 ppm at BHTS18). Representative sample in debris/fill area. Excavate exploratory trench and collect samples at depth/location based on field observations. Actual sample locations will be based on field observation and soil conditions.	N/A TRENCH	Location not sampled at this time. Trenching is scheduled for 2013.				
5C_DG-602	Field east of B4100	Co-located sample completes the suite at elevated mercury detect (0.34 ppm at BHBS1002). Representative sample in debris/fill area.	5	Trace igneous/metamorphic gravel from 0.0 to 5.0 ft.	2012-05-02	Surface	SL-602-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-21	Subsurface	SL-602-SA5C-SB-4.0-5.0	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-21	Subsurface	SL-602-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-603	Field east of B4100	Sample targets drainage in storage / debris / fill area. Step out for metals detected in adjacent samples. Other analytical suites selected since detected in other portions of the debris/fill area. Sample depths based on bedrock refusal at 5.5 feet bgs in previous nearby sample locations.	5	Trace igneous/metamorphic gravel and red brick fragments from 2.0 to 4.0 ft.	2012-05-03	Surface	SL-603-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-03	Surface (Duplicate)	SL-903-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-21	Subsurface	SL-603-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-21	Subsurface	SL-603-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-604	Field east of B4100	Representative sample in open storage area. Analytical suites selected since detected in other portions of the area. Dioxins not selected since not generally detected outside the fill area.	5.1	Trace metal (nail) and trace igneous/metamorphic gravel from 0.0 to 0.5 ft.	2012-05-02	Surface	SL-604-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-20	Subsurface	SL-604-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-20	Subsurface	SL-604-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-605	Field east of B4100	Representative sample mounded material observed in EPA aerial photo review. Analytical suites selected since detected in other portions of the area. Excavate exploratory trench and collect samples based on field observation. Conditions should be observed in the trench and sample depths should target fill and native soil immediately beneath it.	N/A TRENCH	Location not sampled at this time. Trenching is scheduled for 2013.				
5C_DG-606	Field east of B4100	Representative sample of mounded material observed in EPA aerial photo review. Analytical suites selected since detected in other portions of the area.	2.1	None Indicated.	2012-05-03	Surface	SL-606-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-607	Field east of B4100	Representative sample of mounded material observed in EPA aerial photo review. Analytical suites selected since detected in other portions of the area. Originally planned as an exploratory trench, but blocked by large baker tank. Changed to soil boring per DTSC.	10.4	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 0.5 ft. Trace red brick fragments from 0.5 to 4.0 ft.	2012-07-11	Surface	SL-607-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-07-11	Subsurface	SL-607-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-07-11	Subsurface	SL-607-SA5C-SB-4.5	TPH-GRO EPA 8015
					2012-07-11	Subsurface	SL-607-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-07-11	Subsurface	SL-607-SA5C-SB-9.5	TPH-GRO EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-608	B100 Trench	Targets unknown tank for same analytical suite as unknown tanks at SPTF, adjacent to area. Shallow sample only since bedrock observed at 2 feet bgs at adjacent sample.	3	Trace ceramic tile from 0.0 to 0.5 ft. Trace igneous/metamorphic gravel from 0.0 to 3.0 ft.	2012-05-09	Surface	SL-608-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-31	Subsurface	SL-608-SA5C-SB-2.0-3.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-31	Subsurface	SL-608-SA5C-SB-3.0	TPH-GRO EPA 8015
5C_DG-609	B100 Trench	Same as 5C_DG-608.	4	Trace igneous/metamorphic gravel from 0.0 to 4.0 ft.	2012-05-09	Surface	SL-609-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-31	Subsurface	SL-609-SA5C-SB-3.0-4.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-31	Subsurface	SL-609-SA5C-SB-4.0	TPH-GRO EPA 8015
5C_DG-610	B100 Trench	Same as 5C_DG-608.	2	Trace igneous/metamorphic gravel from 0.0 to 1.0 ft.	2012-05-31	Surface	SL-610-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-611	B100 Trench	Representative sample of open storage area. Analytical suite selected due to other detections in surrounding areas.	6	Igneous/metamorphic gravel (road base) from 0.0 to 0.5 ft.	2012-05-31	Subsurface	SL-611-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-31	Subsurface	SL-611-SA5C-SB-5.0-6.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-31	Subsurface	SL-611-SA5C-SB-6.0	TPH-GRO EPA 8015
5C_DG-612	B100 Trench	Representative sample of open storage area. Analytical suite selected due to other detections in surrounding areas.	7.9	Trace concrete and igneous/metamorphic gravel from 0.0 to 0.5 ft.	2012-05-03	Surface	SL-612-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-31	Subsurface	SL-612-SA5C-SB-4.0-5.0	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-31	Subsurface (Duplicate)	SL-912-SA5C-SB-4.0-5.0	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-31	Subsurface	SL-612-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-31	Subsurface (Duplicate)	SL-912-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-31	Subsurface	SL-612-SA5C-SB-7.0-8.0	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-31	Subsurface	SL-612-SA5C-SB-8.0	TPH-GRO EPA 8015
5C_DG-613	B100 Trench	Step out for PAHs and dioxins detected at SL-049; PCBs added due to detection above ISL.	8.4	Trace igneous/metamorphic gravel and asphalt from 0.0 to 8.4 ft.	2012-05-09	Surface	SL-613-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Dioxins EPA 1613
					2012-05-31	Subsurface	SL-613-SA5C-SB-4.0-5.0	PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613
					2012-05-31	Subsurface	SL-613-SA5C-SB-7.5-8.5	PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613
5C_DG-614	B100 Trench	Same as 5C_DG-613.	4.2	Trace igneous/metamorphic gravel from 0.0 to 4.2 ft.	2012-05-31	Surface	SL-614-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613
					2012-05-31	Subsurface	SL-614-SA5C-SB-3.0-4.0	PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-615	B100 Trench	Targets drainage in southern portion of storage area.	10.2	5% igneous/metamorphic gravel from 0.0 to 1.5 ft. Trace igneous/metamorphic gravel and red brick fragments from 3.0 to 4.0 ft.	2012-05-07	Surface	SL-615-SA5C-SB-0.0-0.5	Herbicides EPA 8151, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, Pesticides EPA 8081, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-05	Subsurface	SL-615-SA5C-SB-4.0-5.0	Herbicides EPA 8151, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, Pesticides EPA 8081, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-05	Subsurface	SL-615-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-05	Subsurface	SL-615-SA5C-SB-9.0-10.0	Herbicides EPA 8151, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, Pesticides EPA 8081, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-05	Subsurface	SL-615-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-618	B100 Trench	Step out location for metals at BHBS1000 and BHBS1405 (Ba up to 980 ppm [71 BG]). Perchlorate added since detected in B100 Trench.	2.5	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 2.5 ft.	2012-05-30	Surface	SL-618-SA5C-SB-0.0-1.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, Perchlorate EPA 314.0/331, pH EPA 9045
					2012-05-31	Subsurface	SL-618-SA5C-SB-1.0	1,4 Dioxane EPA 8260 SIM, TPH-GRO EPA 8015, VOC EPA 8260
5C_DG-619	B100 Trench	Same as 5C_DG-618.	2	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 2.0 ft.	2012-05-30	Surface	SL-619-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, pH EPA 9045
5C_DG-620	B100 Trench	Bound the eastern margin of the B100 Trench excavation. PCBs analyzed due to limited coverage in eastern trench. dioxins, metals, perchlorate and TPH analyzed due to detections in trench.	1.9	Asphalt from 0.0 to 0.25 ft. Igneous/metamorphic gravel, pieces of asphalt, pieces of concrete from 0.25 to 1.9 ft.	2012-05-29	Surface	SL-620-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-621	B100 Trench	Same as 5C_DG-620.	1.7	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 1.0 ft.	2012-05-30	Surface	SL-621-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-622	Fill Area	Co-locate sample location at SL-130-SA5C. Sampling to (a) verify depth and sample native soil, (b) confirm total depth of impacts below former 10' samples, and (c) assess vertical migration of large molecular weight contaminants (PCBs, dioxins) from overlying fill into native soil. Excavate exploratory trench and collect samples at previous location below 10 ft (targeting top of native soil) to bedrock (actual depths/locations will be determined based on soil conditions observed in trench). Analyze for all chemical groups detected in fill area (PAHs, PCBs, perchlorate, dioxins, metals, NDMA, TPH). Representative location on hold for formaldehyde (breakdown product of hydrazine) due to low level (less than ISL) concentrations of NDMA - pending offsite NDMA data. Note: previous sampling logs do not identify top of native soil; this sampling is intended to target native soil below fill to bedrock.	N/A TRENCH					Location not sampled at this time. Trenching is scheduled for 2013.

Table 2-1  
Soil Samples Collected from Subarea 5C - Phase 3

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-623	B4383 LF Area	Sample characterizes disturbed area observed in aerial photos. Metals analysis delineates Hg detection at SL-124.	10	Trace igneous/metamorphic gravel from 0.0 to 6.5 ft.	2012-04-25	Surface	SL-623-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-623-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-623-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-624	Fill Area	Co-locate sample at SL-120-SA5C. Same rationale as 5C_DG-622.	N/A TRENCH	TRENCH: Location not sampled at this time.				
5C_DG-625	Fill Area	Co-locate sample at SL-129-SA5C. Same rationale as 5C_DG-622.	N/A TRENCH	TRENCH: Location not sampled at this time.				
5C_DG-628	Liquid Waste Hold up Tank Vault	Location targets soil beneath former liquid waste hold up tank vault. Based on demolition/removal photos, the vault excavation bottom is estimated at approx. 28 feet bgs, however, refusal was observed at 13.5 ft bgs.	13.5	Trace of red brick fragments from 7.4 to 10.0 ft. Concrete at 10.0 ft. Trace igneous/metamorphic gravel from 10.0 to 11.0 ft.	2012-06-20	Subsurface	SL-628-SA5C-SB-10.5	1,4 Dioxane EPA 8260 SIM, TPH-GRO EPA 8015, VOC EPA 8260
					2012-06-20	Subsurface	SL-628-SA5C-SB-11.5-12.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-20	Subsurface	SL-628-SA5C-SB-12.5	1,4 Dioxane EPA 8260 SIM, TPH-GRO EPA 8015, VOC EPA 8260
5C_DG-630	Liquid Waste Hold up Tank Vault	Location targets former discharge pipe entrance to liquid waste hold up tank vault. All soil immediately adjacent to the inlet (i.e., at inlet depth) was excavated during removal of the hold up tank and backfilled.	10	Trace igneous/metamorphic gravel from 2.0 to 4.2 ft.	2012-06-20	Subsurface	SL-630-SA5C-SB-8.0-9.0	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-20	Subsurface	SL-630-SA5C-SB-9.0	TPH-GRO EPA 8015
5C_DG-632	Transformer N of B4015	PCBs detected below ISL at previous composite sample U5B11006. Transformers in Area IV with previous ND results were resampled with discrete samples. Recollected samples at four former discrete locations and analyzed each sample for PCBs; hold deep samples pending shallow results.	3	Trace wood chips from 0.0 to 1.0 ft.	2012-04-23	Surface	SL-632-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-04-23	Subsurface	SL-632-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
5C_DG-633	Transformer N of B4015		3	Trace wood chips from 0.0 to 1.0 ft. Trace igneous/metamorphic gravel from 0.0 to 2.0 ft.	2012-04-20	Surface	SL-633-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-04-20	Subsurface	SL-633-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
5C_DG-634	Transformer N of B4015		3	Trace igneous/metamorphic gravel from 0.0 to 3.0 ft.	2012-04-20	Surface	SL-634-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-04-20	Subsurface	SL-634-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
5C_DG-635	Transformer N of B4015		3	Trace igneous/metamorphic gravel from 0.0 to 1.0 ft.	2012-04-23	Surface	SL-635-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-04-23	Subsurface	SL-635-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-636	Transformer E of B4462	Location targets removed transformer east of B4462. Four discrete locations collected surrounding transformer. Note: Transformer resampled since previous composite sample U5B11014 had detect <ISL and discrete locations could not be determined accurately.	3	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel and red brick fragments from 0.25 to 3.0 ft.	2012-06-06	Surface	SL-636-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-06-06	Subsurface	SL-636-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
			5C_DG-637	Transformer E of B4462		3	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 2.0 ft.	2012-06-06
2012-06-06	Subsurface	SL-637-SA5C-SB-2.0-3.0						PCBs/PCTs EPA 8082
5C_DG-638	Transformer E of B4462		3	Asphalt from 0.0 to 0.5 ft. Trace igneous/metamorphic gravel and red brick fragments from 0.5 to 3.0 ft. Metal from 1.2 to 3.0 ft.	2012-06-06	Surface	SL-638-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-06-06	Subsurface	SL-638-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
5C_DG-639	Transformer E of B4462		1.7	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 1.7 ft.	2012-06-06	Surface	SL-639-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
5C_DG-640	B4383 Leach Field	Location targets former leach field. Samples collected just below contact of fill and native to evaluate potential impacts to native soil.	24	Trace igneous/metamorphic gravel and red brick fragments from 0.0 to 3.0 ft. Trace red brick fragments from 3.0 to 4.0 ft.	2012-07-10	Subsurface	SL-640-SA5C-SB-5.0-6.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-10	Subsurface	SL-640-SA5C-SB-10.0-11.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-10	Subsurface	SL-640-SA5C-SB-15.0-16.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-10	Subsurface	SL-640-SA5C-SB-19.0-20.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-641	B4383 Leach Field	Location targets former leach field. Samples collected just below contact of fill and native to evaluate potential impacts to native soil.	19.7	Fill from 0.0 to 2.4 ft. Trace red brick fragments from 2.4 to 4.0 ft.	2012-07-10	Subsurface	SL-641-SA5C-SB-4.0-5.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-10	Subsurface	SL-641-SA5C-SB-9.0-10.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-10	Subsurface	SL-641-SA5C-SB-14.0-15.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-10	Subsurface	SL-641-SA5C-SB-18.5-19.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-642	B4383 Leach Field	Sampled at former collocated sample SL-110. Sample targets just below former leach field gravel (previous collocated samples were at 1 foot above and 4 feet below gravels).	18.4	None Indicated.	2012-07-10	Subsurface	SL-642-SA5C-SB-4.0-5.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-10	Subsurface	SL-642-SA5C-SB-9.0-10.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-10	Subsurface	SL-642-SA5C-SB-14.0-15.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-10	Subsurface	SL-642-SA5C-SB-17.5-18.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-643	East of B4462	Co-locate sample location at 1FBS16. Collected samples from 2 to 3 feet bgs to assess vertical migration of large molecular weight contaminants (PCBs).	3	Asphalt from 0.0 to 0.08 ft. Trace igneous/metamorphic gravel from 0.08 to 2.0 ft.	2012-06-19	Subsurface	SL-643-SA5C-SB-1.0-2.0	PCBs/PCTs EPA 8082
					2012-06-19	Subsurface	SL-643-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
5C_DG-644	East of B4462	Co-locate sample location at SL-086-SA5C. Collected samples from 2 to 3 feet bgs to assess vertical migration of large molecular weight contaminants (PCBs).	3	Trace asphalt, igneous/metamorphic gravel from 0.0 to 3.0 ft. Trace red brick fragments from 2.0 to 3.0 ft.	2012-05-08	Subsurface	SL-644-SA5C-SB-1.0-2.0	PCBs/PCTs EPA 8082
					2012-05-08	Subsurface	SL-644-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082

Table 2-1  
Soil Samples Collected from Subarea 5C - Phase 3

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-645	Fill Area	Co-locate sample at SL-141-SA5C. Same rationale as 5C_DG-122.	N/A TRENCH					
5C_DG-646	Southern Screening Area	<p>New potential fill area identified ("Loose Earth Fill") in historical drawing that associated the area with the Building 4056 Landfill. Conduct a geophysical survey and locate trenches and test pits to address any anomalies, and provide coverage over entire area. Excavate 10 exploratory trenches and 13 test pits to characterize the area, with test pits located along outer boundaries to identify extent of fill.</p> <p>Excavate 10 exploratory trenches, to be located based on a geophysical survey and field observations. Collect one sample from each of 10 trenches in new potential fill area. Add samples if targeting specific anomalies observed during trenching, based on PID readings, and/or based on field observations. Analyze all samples for the standard investigation suite (PAHs, PCBs/PCTs, metals, and TPH). Analyze one representative sample for dioxins, Cr(VI), biphenyls, terphenyls, glycols, perchlorate, and energetics due to historical use in Area IV operations to assess potential disposal. Hold all subsequent samples for these analyses pending results of the first sample. (Note: Location 5C_DG-646 selected for representative analysis in the table, but actual representative sample location to be based on field observations).</p> <p>Excavate 13 test pits at regular intervals around the area perimeter to delineate the lateral extent of the potential fill area. Test pit locations may be adjusted based on the geophysical survey results and field observations. One or more test pits may be trenched at historical topographic low points to determine the vertical extent of the potential debris area. Samples will be collected from test pit locations/depths based on field observations and/or PID readings. Collect a minimum of one sample from each test pit (additional samples may be collected if field observations warrant). For this FSP Addendum, assume 7 samples (approx. half of test pits) will be analyzed for the standard investigation suite (PAHs, PCBs/PCTs, metals, and TPH) and the remaining samples placed on hold pending field observations. Analyze one representative sample collected from test pit locations for dioxins, Cr(VI), biphenyls, terphenyls, glycols, perchlorate, and energetics due to historical use in Area IV operations to assess potential disposal; these analyses on hold in all subsequent samples pending results in representative sample. (Note: Location 5C_DG-656 selected for representative analysis in the table, but actual representative sample location to be based on field observations).</p>	N/A TRENCH					
5C_DG-647	Southern Screening Area		N/A TRENCH					
5C_DG-648	Southern Screening Area	Collect surface samples at ten locations (5C_DG-646, -648, -649, -652, -654, -655, -659, -663, -666, -668) to characterize area for potential aerial deposition from burning activities at the B100 Trench; analyze for PAHs, metals, and dioxins.	N/A TRENCH					
5C_DG-649	Southern Screening Area		N/A TRENCH					
5C_DG-650	Southern Screening Area	NOTE: Overall sampling will be located to be representative of the fill area both laterally and with depth, as well as targeted locations depending on field observations.	N/A TRENCH					
5C_DG-651	Southern Screening Area		N/A TRENCH					

Location not sampled at this time. Trenching is scheduled for 2013.

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-652	Southern Screening Area	Same as 5C_DG-646 thru 5C_DG-661.	N/A TRENCH	Location not sampled at this time. Test pit sampling is scheduled for 2013.				
5C_DG-653	Southern Screening Area		N/A TRENCH					
5C_DG-654	Southern Screening Area		N/A TRENCH					
5C_DG-655	Southern Screening Area		N/A TRENCH					
5C_DG-656	Southern Screening Area		N/A Test Pit					
5C_DG-657	Southern Screening Area		N/A Test Pit					
5C_DG-658	Southern Screening Area		N/A Test Pit					
5C_DG-659	Southern Screening Area		N/A Test Pit					
5C_DG-660	Southern Screening Area		N/A Test Pit					
5C_DG-661	Southern Screening Area		N/A Test Pit					
5C_DG-662	Southern Screening Area		N/A Test Pit					
5C_DG-663	Southern Screening Area		N/A Test Pit					
5C_DG-664	Southern Screening Area		N/A Test Pit					
5C_DG-665	Southern Screening Area		N/A Test Pit					
5C_DG-666	Southern Screening Area		N/A Test Pit					
5C_DG-667	Southern Screening Area		N/A Test Pit					
5C_DG-668	Southern Screening Area	N/A Test Pit						
5C_DG-669A	Former Transformer West of B4065	PCB results ND with elevated RLs in previous samples (1FBS03 and 1FBS04). Transformers in Area IV with previous ND results are being resampled with discrete samples. Recollect samples at four former discrete locations and analyze each sample for PCBs; hold deep samples pending shallow results.	N/A ACTIVE TRANSFORMERS	Locations next to live transformer. Samples will be collected after removal of transformers.				
5C_DG-669B	Former Transformer West of B4065							
5C_DG-669C	Former Transformer West of B4065							
5C_DG-669D	Former Transformer West of B4065							
5C_DG-670	Storage Area West of B4065	Step out sample to delineate dioxins and metals at SL-043. TPH added since detected in storage area. Detections observed at SL-039 and SL-043 at depth.	5	Asphalt from 0.0 to 0.33 ft. Trace red brick fragments from 0.33 to 3.0 ft.	2012-06-19	Surface	SL-670-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-19	Subsurface	SL-670-SA5C-SB-4.0-5.0	
					2012-06-19	Subsurface	SL-670-SA5C-SB-5.0	
5C_DG-671	Storage Area West of B4065	Same as 5C_DG-670	3	Trace igneous/metamorphic gravel from 0.0 to 3.0 ft.	2012-05-08	Surface	SL-671-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-23	Subsurface	SL-671-SA5C-SB-2.0-3.0	
					2012-05-23	Subsurface	SL-671-SA5C-SB-3.0	

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-672	Storage Area West of B4065	Same as 5C_DG-670	5	Asphalt from 0.0 to 0.25 ft. Trace red brick fragments from 0.25 to 2.5 ft.	2012-05-24	Surface	SL-672-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-672-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-672-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-673	Storage Area West of B4065	Same as 5C_DG-670	1.6	Trace wood and igneous/metamorphic gravel from 0.0 to 0.6 ft.	2012-05-08	Surface	SL-673-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-674	Storage Area West of B4065	Location targets undefined feature/structure (1980 aerial) in open storage area. Also serves as step out sample to delineate dioxins and metals at SL-043 and TPH and pesticides at SL-039.	3.5	Asphalt from 0.0 to 0.33 ft.	2012-05-23	Surface	SL-674-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-23	Subsurface	SL-674-SA5C-SB-2.5-3.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-23	Subsurface	SL-674-SA5C-SB-3.5	TPH-GRO EPA 8015
5C_DG-675	Open storage area West of B4065	Step out to delineate TPH and pesticides. Dioxins and metals analyzed since detected in storage area.	1.6	Asphalt from 0.0 to 0.08 ft.	2012-05-23	Surface	SL-675-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Pesticides EPA 8081, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-676	Storage Area Northwest of B4065	Step out sample to delineate dioxins and metals at SL-043. TPH added since detected in storage area.	5.1	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 0.17 to 1.2 ft.	2012-05-23	Surface	SL-676-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Pesticides EPA 8081, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-23	Subsurface	SL-676-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Pesticides EPA 8081, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-23	Subsurface (Duplicate)	SL-976-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Pesticides EPA 8081, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-23	Subsurface	SL-676-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-23	Subsurface (Duplicate)	SL-976-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-677	Open storage area West of B4065	Sample assesses storage area (observed in 1978, 1980 aerial photos) based on previous detections (dioxins, metals, TPH).	5	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 5.0 ft. Trace red brick fragments from 0.25 to 3.0 ft.	2012-05-24	Surface	SL-677-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-677-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-677-SA5C-SB-5.0	TPH-GRO EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-678	Storage Area Northwest of B4065	Step out to delineate TPH and pesticides SL-039 and assess storage area. dioxins and metals analyzed since detected in storage area.	3.5	Asphalt from 0.0 to 0.22 ft. Trace red brick fragments from 0.22 to 1.5 ft.	2012-05-23	Surface	SL-678-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Pesticides EPA 8081, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-23	Subsurface	SL-678-SA5C-SB-2.5-3.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Pesticides EPA 8081, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-23	Subsurface	SL-678-SA5C-SB-3.5	TPH-GRO EPA 8015
5C_DG-679	Open storage area Northwest of B4065	Sample assesses storage area based on previous detections (dioxins, metals, TPH).	1.2	Trace igneous/metamorphic gravel from 0.0 to 1.2 ft.	2012-04-12	Surface	SL-679-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-680	Southwest of B4626	Representative location characterizes open storage.	0.9	Trace igneous/metamorphic gravel from 0.0 to 0.9 ft.	2012-04-17	Surface	SL-680-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-681	South of B4626	Same as 5C_DG-680.	8.6	Trace igneous/metamorphic gravel and red brick fragments from 0.0 to 2.5 ft.	2012-04-12	Surface	SL-681-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-23	Subsurface	SL-681-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-23	Subsurface	SL-681-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-23	Subsurface	SL-681-SA5C-SB-7.5-8.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-23	Subsurface	SL-681-SA5C-SB-8.5	TPH-GRO EPA 8015
5C_DG-682	South of B4626	Same as 5C_DG-680.	10	Asphalt from 0.0 to 0.17 ft. Trace charcoal from 0.17 to 1.5 ft. Trace red brick fragments from 5.0 to 7.0 ft.	2012-05-22	Surface	SL-682-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-22	Subsurface	SL-682-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-22	Subsurface	SL-682-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-22	Subsurface	SL-682-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-22	Subsurface	SL-682-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-683	West of B4626	Representative location characterizes open storage and step out to delineate dioxins at SL-032.	8.4	None Indicated.	2012-04-12	Surface	SL-683-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-683-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-683-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-13	Subsurface	SL-683-SA5C-SB-7.0-8.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-683-SA5C-SB-8.0	TPH-GRO EPA 8015
5C_DG-684	West of B4626	Same as 5C_DG-683.	3.5	Trace igneous/metamorphic gravel and red brick fragments from 0.0 to 3.5 ft.	2012-04-12	Surface	SL-684-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-684-SA5C-SB-2.5-3.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-684-SA5C-SB-3.5	TPH-GRO EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-685	Building 4626	Representative location characterizes open storage and step out to delineate dioxins at SL-032.	7.8	Trace red brick fragments from 1.0 to 7.8 ft.	2012-04-12	Surface	SL-685-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-685-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-685-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-13	Subsurface	SL-685-SA5C-SB-7.0-8.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-685-SA5C-SB-8.0	TPH-GRO EPA 8015
5C_DG-686	Building 4626	Representative location characterizes footprint of former Building 4626 (equipment storage).	10.4	Trace igneous/metamorphic gravel from 0.0 to 10.4 ft.	2012-04-12	Surface	SL-686-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-17	Subsurface	SL-686-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-17	Subsurface	SL-686-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-17	Subsurface	SL-686-SA5C-SB-9.0-10.0	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-17	Subsurface	SL-686-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-687	Open Storage West of B4059	Representative location in open storage area identified in EPA HSA (open storage observed in several aerial photographs: 1978, 1988, 1990). 5C_DG-192 targets dense storage area.	7.9	Trace igneous/metamorphic gravel from 0.0 to 2.4 ft.	2012-04-16	Surface	SL-687-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-687-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9040, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-687-SA5C-SB-5.0	TPH-GRO EPA 8015
5C_DG-688	Open Storage West of B4059	Same as 5C_DG-687.	10	Trace igneous/metamorphic gravel and red brick fragments from 0.0 to 9.0 ft.	2012-04-16	Surface	SL-688-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-688-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9040, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-688-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-12	Subsurface	SL-688-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9040, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-688-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-689	Open Storage West of B4059	Same as 5C_DG-687.	8.5	Trace red brick fragments from 0.0 to 6.0 ft. Trace igneous/metamorphic gravel from 3.4 to 6.0 ft.	2012-04-16	Surface	SL-689-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-689-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9040, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-689-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-12	Subsurface	SL-689-SA5C-SB-7.5-8.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9040, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-689-SA5C-SB-8.5	TPH-GRO EPA 8015
5C_DG-690	Open Storage West of B4059	Same as 5C_DG-687.	4.8	Trace red brick fragments from 0.0 to 2.0 ft. Trace igneous/metamorphic gravel from 0.0 to 4.8 ft.	2012-04-16	Surface	SL-690-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-690-SA5C-SB-3.5-4.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9040, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-690-SA5C-SB-4.5	TPH-GRO EPA 8015
5C_DG-691	Open Storage West of B4059	Same as 5C_DG-687.	2.5	Trace wood and igneous/metamorphic gravel from 0.0 to 0.5 ft.	2012-04-16	Surface	SL-691-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-692	Open Storage West of B4059	Same as 5C_DG-687.	6.2	Trace wood chips and red brick fragments from 0.0 to 3.2 ft.	2012-04-16	Surface	SL-692-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-692-SA5C-SB-5.0-6.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9040, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-692-SA5C-SB-6.0	TPH-GRO EPA 8015
5C_DG-693	Open Storage West of B4059	Same as 5C_DG-687.	10.2	Trace red brick fragments from 0.0 to 8.0 ft. Trace igneous/metamorphic gravel from 0.0 to 4.0 ft. and 8.0 to 9.0 ft.	2012-04-16	Surface	SL-693-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-693-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9040, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-12	Subsurface	SL-693-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-12	Subsurface	SL-693-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9040, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-694	Storage Yard West of B4065	Representative sampling addresses storage area west of B4065 observed in aerial photographs (1980, 1983).	10	Asphalt from 0.0 to 0.25 ft. Trace red brick fragments from 0.0 to 3.0 ft. and at 7.0 ft.	2012-05-24	Surface	SL-694-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-694-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-694-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-24	Subsurface	SL-694-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-694-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-695	Sewer Line Exiting B4065	Sample targeted location where sanitary sewer line exited former building (Note: location selected to address uncertainty between conflicting documented sewer line locations; actual location will be based on sewer manhole inspection for line and/or geophysical survey performed prior to sampling). Location also addresses potential cooling tower (historical documentation indicated presence of a cooling tower at B4065 and aerial photographs show potential pipe/vent that may have been related to cooling tower).	10	Asphalt from 0.0 to 0.17 ft.	2012-04-26	Surface	SL-695-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Formaldehyde EPA 8315
					2012-04-26	Surface	SL-995-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Formaldehyde EPA 8315
					2012-05-16	Subsurface	SL-695-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Formaldehyde EPA 8315
					2012-05-16	Subsurface	SL-695-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-16	Subsurface	SL-695-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Formaldehyde EPA 8315
					2012-05-16	Subsurface	SL-695-SA5C-SB-10.0	TPH-GRO EPA 8015
					2012-05-16	Subsurface	SL-695-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-696	B4065 Metals Clarifier Outlet	Samples target clarifier outlet on west side (line to sewer). Shallow sample depth of 2 feet based on inlet depth shown on trench log (outlet not shown).	10	Trace igneous/metamorphic gravel from 0.0 to 2.0 ft.	2012-06-18	Subsurface	SL-696-SA5C-SB-1.0-2.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020
					2012-06-18	Subsurface	SL-696-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020
					2012-06-18	Subsurface	SL-696-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020
5C_DG-697	B4065 Metals Clarifier/UT 76	Step out location defines extent of subsurface TPH impacts observed at SL-046 originating from UT-76. Analyzed both subsurface depths due to potential migration of TPH from UT-76 along bedrock.	10	Trace red brick fragments from 0.0 to 3.0 ft.	2012-04-26	Surface	SL-697-SA5C-SB-0.0-0.5	TPH-EFH EPA 8015
					2012-05-16	Subsurface	SL-697-SA5C-SB-4.0-5.0	TPH-EFH EPA 8015
					2012-05-16	Subsurface	SL-697-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-16	Subsurface	SL-697-SA5C-SB-9.0-10.0	TPH-EFH EPA 8015
					2012-05-16	Subsurface	SL-697-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-698	B4065 Metals Clarifier/UT 76	Step out location to define extent of subsurface TPH impacts observed at MCTS01S02 originating from UT-76. Analyzed both subsurface depths due to potential migration of TPH from UT-76 along bedrock. PAHs analyzed to assess TPH constituents.	10	Trace igneous/metamorphic gravel from 0.0 to 4.0 ft.	2012-04-25	Surface	SL-698-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-05-16	Subsurface	SL-698-SA5C-SB-4.0-5.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-05-16	Subsurface	SL-698-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-16	Subsurface	SL-698-SA5C-SB-9.0-10.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-699	B4065 Metals Clarifier/UT-76	Step out location to define extent of subsurface TPH impacts observed at MCTS01S02 originating from UT-76. Analyzed both subsurface depths due to potential migration of TPH from UT-76 along bedrock. PAHs analyzed to assess TPH constituents.	10	Trace igneous/metamorphic gravel from 0.0 to 2.0 ft.	2012-05-16	Subsurface	SL-698-SA5C-SB-10.0	TPH-GRO EPA 8015
					2012-04-25	Surface	SL-699-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-18	Subsurface	SL-699-SA5C-SB-4.0-5.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-18	Subsurface	SL-699-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-18	Subsurface	SL-699-SA5C-SB-9.0-10.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
5C_DG-700	B4065 Metals Clarifier/UT-76	Step out location to define extent of subsurface TPH impacts observed at MCTS01S02 originating from UT-76. Analyzed both subsurface depths due to potential migration of TPH from UT-76 along bedrock.	10	Trace igneous/metamorphic gravel from 0.0 to 2.0 ft.	2012-04-26	Surface	SL-700-SA5C-SB-0.0-0.5	TPH-EFH EPA 8015
					2012-06-18	Subsurface	SL-700-SA5C-SB-4.0-5.0	TPH-EFH EPA 8015
					2012-06-18	Subsurface (Duplicate)	SL-1000-SA5C-SB-4.0-5.0	TPH-EFH EPA 8015
					2012-06-18	Subsurface	SL-700-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-18	Subsurface (Duplicate)	SL-1000-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-18	Subsurface	SL-700-SA5C-SB-9.0-10.0	TPH-EFH EPA 8015
					2012-06-18	Subsurface	SL-700-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-701	B4065 Metals Clarifier/UT-76	Step out location to define extent of subsurface TPH impacts observed at MCTS01S02 originating from UT-76. Analyzed both subsurface depths due to potential migration of TPH from UT-76 along bedrock. PAHs analyzed to assess TPH constituents.	10	Trace red brick fragments from 0.0 to 2.0 ft.	2012-04-26	Surface	SL-701-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-18	Subsurface	SL-701-SA5C-SB-4.0-5.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-18	Subsurface	SL-701-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-18	Subsurface	SL-701-SA5C-SB-9.0-10.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-18	Subsurface	SL-701-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-702	East of B4065	Step out to delineate dioxins at SL-045. Also serves as step out for sample MCBS1000 with zinc at 2.61 ISL. Analyzed for zinc and dioxins at surface only because concentrations < ISL at depth.	10	Trace red brick fragments from 0.0 to 2.0 ft.	2012-04-26	Surface	SL-702-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, pH EPA 9045, Dioxins EPA 1613
					2012-06-18	Subsurface	SL-702-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, pH EPA 9045, Dioxins EPA 1613
					2012-06-18	Subsurface	SL-702-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, pH EPA 9045, Dioxins EPA 1613
5C_DG-703	Building 4065	Sample targets B4065 footprint. Analytical suites selected to address historical operations in B4065.	10	5% igneous/metamorphic gravel from 0.0 to 2.0 ft.	2012-04-26	Surface	SL-703-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199
					2012-06-18	Subsurface	SL-703-SA5C-SB-4.0-5.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199
					2012-06-18	Subsurface	SL-703-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-18	Subsurface	SL-703-SA5C-SB-9.0-10.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199
					2012-06-18	Subsurface	SL-703-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-704	Storage Yard West of B4065	Representative sampling addresses storage area west of B4065 observed in aerial photographs (1980, 1983).	10	Asphalt from 0.0 to 0.25 ft. 15% igneous/metamorphic gravel from 0.0 to 4.2 ft. Trace red brick fragments from 2.0 to 4.2 ft.	2012-05-24	Surface	SL-704-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-704-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-704-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-24	Subsurface	SL-704-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-704-SA5C-SB-10.0	TPH-GRO EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-705	Storage Yard West of B4065	Representative sampling addresses storage area west of B4065 observed in aerial photographs (1980, 1983).	10	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel and red brick fragments from 0.25 to 5.0 ft.	2012-05-24	Surface	SL-705-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-705-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-705-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-24	Subsurface	SL-705-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-24	Subsurface	SL-705-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-706	Building 4065	Sample targets B4065 footprint. Analytical suites selected to address historical operations in B4065.	10	Asphalt from 0.0 to 0.25 ft. Trace concrete from 0.0 to 5.0 ft. Trace igneous/metamorphic gravel from 0.0 to 10.0 ft.	2012-05-29	Surface	SL-706-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-29	Subsurface	SL-706-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-29	Subsurface	SL-706-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-29	Subsurface	SL-706-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-29	Subsurface	SL-706-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-707	East of B4065	Step-down from sample SL-044 for deeper sample. SL-044 was collected to assess unidentified tank. Sample collected just above bedrock to assess boron, NDMA, and TPH detected in SL-044 at depth.	14	Trace igneous/metamorphic gravel from 1.6 to 4.2 ft. Trace red brick fragments from 4.2 to 7.0 ft, 8.0 to , 9.6 ft.	2012-06-14	Subsurface	SL-707-SA5C-SB-13.0-14.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-14	Subsurface	SL-707-SA5C-SB-14.0	TPH-GRO EPA 8015
5C_DG-708	East of B4065	Step out to delineate dioxins at SL-045. dioxins < ISL at depth; therefore surface sample only.	0.5	5% igneous/metamorphic gravel from 0.0 to 0.5 ft.	2012-04-26	Surface	SL-708-SA5C-SB-0.0-0.5	Dioxins EPA 1613
5C_DG-709	Northeast of B4065 Metals Clarifier Area	Step out for surficial Hg detections at MCBS1005.	10	5% igneous/metamorphic gravel from 0.0 to 0.5 ft.	2012-04-26	Surface	SL-709-SA5C-SB-0.0-0.5	Mercury EPA 7471
					2012-06-14	Subsurface	SL-709-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020
					2012-06-14	Subsurface	SL-709-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020
5C_DG-710A	Transformer 4762 East of B4065	PCB results ND with elevated RLs in previous samples 1FBS24, 1FBS25. Transformers in Area IV with previous ND results are being resampled with discrete samples. Recollect samples at four former discrete locations and analyze each sample for PCBs; hold deep samples pending shallow results.	3	None Indicated.	2012-04-30	Surface	SL-710A-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-04-30	Subsurface	SL-710A-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
5C_DG-710B	Transformer 4762 East of B4065		3	None Indicated.	2012-04-30	Surface	SL-710B-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-04-30	Subsurface	SL-710B-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
5C_DG-710C	Transformer 4762 East of B4065		3	Trace igneous/metamorphic gravel and concrete from 0.0 to 0.5 ft.	2012-04-30	Surface	SL-710C-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
							2012-04-30	Subsurface
5C_DG-710D	Transformer 4762 East of B4065		3	None Indicated.	2012-04-30	Surface	SL-710D-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
							2012-04-30	Subsurface

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-711	East of B4065	One of three representative samples (5C_DG-711, 5C_DG-724, 5CN_DG-723) to assess operational area east of B4065 and west of B4062/B4066.	10	Trace igneous/metamorphic gravel from 0.0 to 1.0 ft.	2012-04-26	Surface	SL-711-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-14	Subsurface	SL-711-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-14	Subsurface	SL-711-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-14	Subsurface	SL-711-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-14	Subsurface	SL-711-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-712	North side of B4066	Sample located on north side of B4066 to address potential storage observed in aerial photos.	10	Trace igneous/metamorphic gravel from 0.0 to 1.0 ft. Trace red brick fragments from 2.0 to 6.4 ft.	2012-04-30	Surface	SL-712-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-14	Subsurface	SL-712-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-14	Subsurface	SL-712-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-14	Subsurface	SL-712-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-14	Subsurface	SL-712-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-713	B4066	Representative sample located in former B4066 footprint to address historical operations.	7.7	Trace igneous/metamorphic gravel and concrete from 0.0 to 1.0 ft.	2012-04-30	Surface	SL-713-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-14	Subsurface	SL-713-SA5C-SB-6.0-7.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-14	Subsurface	SL-713-SA5C-SB-7.0	TPH-GRO EPA 8015
5C_DG-714	Drainage Southeast of B4066	Targets historical drainage feature observed in aerial photo. Collect/analyze samples at depth due to potential recharge and depth uncertainty associated with feature (collect last sample just above bedrock).	N/A UTILITIES	Soil boring located along underground utility corridor. Locations will be sampled after removal of sub terrain utilities.				
5C_DG-715	North side of B4066	Sample targets building operations on north side of B4066. Formaldehyde, hexavalent chromium, NDMA added due to potential cooling system operation.	7.5	Trace concrete and red pipe fragments from 0.0 to 0.5 ft.	2012-04-30	Surface	SL-715-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613, Formaldehyde EPA 8315
					2012-06-14	Subsurface	SL-715-SA5C-SB-6.0-7.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613, Formaldehyde EPA 8315
					2012-06-14	Subsurface	SL-715-SA5C-SB-7.0	TPH-GRO EPA 8015
5C_DG-716	South of B4062	Step out for dioxins, PCBs, and metals at SL-041. Collected deep sample just above bedrock since detections > ISL at 5 ft in SL-041.	6.6	Trace red brick fragments from 2.0 to 4.0 ft. Trace igneous and metamorphic gravel at 4.0 ft.	2012-05-02	Surface	SL-716-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-716-SA5C-SB-5.5-6.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613
5C_DG-717	B4062	Step out for dioxins, PCBs, and metals at SL-041. Refusal at 5 feet at SL-041. Collected deep sample just above bedrock since detections > ISL at 5 ft in nearby SL-041.	7.2	Trace igneous/metamorphic gravel from 0.0 to 2.0 ft. Trace red brick fragments from 2.0 to 4.0 ft.	2012-05-02	Subsurface	SL-717-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-717-SA5C-SB-6.0-7.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-718	B4062	Step out for dioxins, PCBs, and metals at SL-041. Collected sample just above bedrock since detections > ISL at 5 ft in SL-041. Also step out for selenium U5BS1201.	9.2	"Trace igneous/metamorphic gravel" from 3.6 to 9.2 ft. "Trace red brick fragments" from 5.0 to 8.0 ft.	2012-05-02	Surface	SL-718-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-718-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-718-SA5C-SB-8.0-9.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613
5C_DG-719	South of B4062	Step out for dioxins, PCBs, and metals at SL-041. Refusal at 5 feet at SL-041. Collected sample just above bedrock since detections > ISL at 5 ft in SL-041.	7	None Indicated.	2012-05-02	Surface	SL-719-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613
					2012-06-14	Subsurface	SL-719-SA5C-SB-6.0-7.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, Dioxins EPA 1613
5C_DG-720	South side of B4062	Targets potential storage along southern wall of B4062 in consideration of nearby results.	5.8	Trace igneous/metamorphic gravel from 0.0 to 3.6 ft. Trace red brick fragments from 0.0 to 5.5 ft.	2012-04-30	Surface	SL-720-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-720-SA5C-SB-4.5-5.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-720-SA5C-SB-5.5	TPH-GRO EPA 8015
5C_DG-721	Drainage Southeast of B4062	Targets historical drainage feature observed in aerial photo. Collect/analyze samples at depth due to potential recharge and depth uncertainty associated with feature (collect last sample just above bedrock).	N/A UTILITIES	Soil being located along underground utility corridor. Locations will be sampled after removal of sub terrain utilities.				
5C_DG-722	B4062	Step out for selenium at U5BS1201. Analyzed general suite (PAHs, PCBs, dioxins, metals, TPH) due to testing activities at B4062.	7	Trace igneous/metamorphic gravel from 0.0 to 6.0 ft. Trace red brick fragments from 0.0 to 3.6 ft.	2012-05-01	Surface	SL-722-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-01	Surface (Duplicate)	SL-1022-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-722-SA5C-SB-6.0-7.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-13	Subsurface	SL-722-SA5C-SB-7.0	TPH-GRO EPA 8015
5C_DG-723	East of B4065	One of three representative samples (5C_DG-711, 5C_DG-724, 5CN_DG-723) to assess operational area east of B4065 and west of B4062/B4066.	10	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 7.0 ft.	2012-05-29	Surface	SL-723-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-29	Subsurface	SL-723-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-29	Subsurface	SL-723-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-29	Subsurface	SL-723-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-29	Subsurface	SL-723-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-724	Northeast of B4065	One of three representative samples (5C_DG-711, 5C_DG-724, 5CN_DG-723) to assess operational area east of B4065 and west of B4062/B4066.	10	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 7.5 ft.	2012-05-29	Surface	SL-724-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-29	Subsurface	SL-724-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-29	Subsurface	SL-724-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-29	Subsurface	SL-724-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-29	Subsurface	SL-724-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-725	North side of B4062	Sample targets unidentified feature observed in 1980 aerial photograph. Hold deeper samples pending shallow results. Conduct geophysical survey along north side of building to assess potential pipeline from UST to building.	N/A GEOPHYSICS REQUIRED	Geophysics required prior to sampling. Will return to sample.				
5C_DG-726	B4062	Sample targets the sanitary sewer exit from building. Analyze general suite (PAHs, PCBs, dioxins, metals, TPH) due to testing activities in the building. Hold deep sample pending shallow results. Conduct geophysical survey to assess actual location of sanitary sewer line.	N/A GEOPHYSICS REQUIRED	Geophysics required prior to sampling. Will return to sample.				

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-727	Southwest of B4057	Representative sample in operational area west of B4057; may serve as step out for TPH impacts south of B4057 and/or step out for deep impacts if observed at dry well to east.	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments and charcoal from 3.0 to 10.0 ft.	2012-05-21	Surface	SL-727-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-21	Subsurface	SL-727-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-21	Subsurface (Duplicate)	SL-1027-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-21	Subsurface	SL-727-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-21	Subsurface (Duplicate)	SL-1027-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-21	Subsurface	SL-727-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-21	Subsurface	SL-727-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-728	South of B4057	Step out for TPH detections at SABS1005. Deepest sample will target just above bedrock. Analyzed larger chemical suite depending on 5C_DG-730 and/or 5C_DG-731 results near bedrock to assess migration along bedrock from drywell.	10	Asphalt from 0.0 to 0.17 ft. Trace igneous/metamorphic gravel from 0.17 to 7.0 ft. Trace charcoal from 4.0 to 7.0 ft. Trace red brick fragments from 0.0 to 10.0 ft.	2012-05-21	Surface	SL-728-SA5C-SB-0.0-0.5	TPH-EFH EPA 8015
					2012-05-21	Subsurface	SL-728-SA5C-SB-4.0-5.0	TPH-EFH EPA 8015
					2012-05-21	Subsurface	SL-728-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-21	Subsurface	SL-728-SA5C-SB-9.0-10.0	TPH-EFH EPA 8015
					2012-05-21	Subsurface	SL-728-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-729	South of B4057	Same as 5C_DG-728.	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 0.17 to 10.1 ft. Trace igneous/metamorphic gravel from 7.5 to 10.1 ft.	2012-05-21	Surface	SL-729-SA5C-SB-0.0-0.5	TPH-EFH EPA 8015
					2012-05-21	Subsurface	SL-729-SA5C-SB-4.0-5.0	TPH-EFH EPA 8015
					2012-05-21	Subsurface	SL-729-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-21	Subsurface	SL-729-SA5C-SB-9.0-10.0	TPH-EFH EPA 8015
					2012-05-21	Subsurface	SL-729-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-730	Dry Well South of B4057	Step out / step-down for TPH and metals in samples targeting dry well (SL-030, SL-031); includes NDMA, Cr(VI), and formaldehyde to address operations involving cooling water use.	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 0.17 to 4.2 ft.	2012-05-22	Surface	SL-730-SA5C-SB-0.0-0.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, TPH-EFH EPA 8015, Formaldehyde EPA 8315
					2012-05-22	Subsurface	SL-730-SA5C-SB-4.0-5.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, TPH-EFH EPA 8015, Formaldehyde EPA 8315
					2012-05-22	Subsurface	SL-730-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-22	Subsurface	SL-730-SA5C-SB-9.0-10.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, TPH-EFH EPA 8015, Formaldehyde EPA 8315
					2012-05-22	Subsurface	SL-730-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-731	Dry Well South of B4057	Same as 5C_DG-730.	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 4.0 to 8.0 ft. Trace igneous/metamorphic gravel from 0.17 to 10.1 ft.	2012-05-22	Surface	SL-731-SA5C-SB-0.0-0.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, TPH-EFH EPA 8015, Formaldehyde EPA 8315
					2012-05-22	Subsurface	SL-731-SA5C-SB-4.0-5.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, TPH-EFH EPA 8015, Formaldehyde EPA 8315
					2012-05-22	Subsurface	SL-731-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-22	Subsurface	SL-731-SA5C-SB-9.0-10.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, TPH-EFH EPA 8015, Formaldehyde EPA 8315
					2012-05-22	Subsurface	SL-731-SA5C-SB-10.0	TPH-GRO EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-732	Dry Well South of B4057	Same as 5C_DG-730.	11.4	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 0.17 to 2.3 ft. Trace charcoal from 3.2 to 8.0 ft.	2012-05-22	Subsurface	SL-732-SA5C-SB-5.0-6.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, TPH-EFH EPA 8015, Formaldehyde EPA 8315
					2012-05-22	Subsurface	SL-732-SA5C-SB-6.0	TPH-GRO EPA 8015
					2012-05-22	Subsurface	SL-732-SA5C-SB-10.5-11.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, TPH-EFH EPA 8015, Formaldehyde EPA 8315
					2012-05-22	Subsurface	SL-732-SA5C-SB-11.5	TPH-GRO EPA 8015
5C_DG-733	Sewer discharge from B4057	Targets sewer discharge from B4057; includes Cr(VI) and formaldehyde to address operations involving cooling water use. Analyzed larger chemical suite in deep sample depending on 5C_DG-732 results near bedrock to assess migration along bedrock from drywell.	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 3.5 to 5.0 ft. Trace igneous/metamorphic gravel and charcoal from 7.0 to 10.0 ft.	2012-05-22	Surface	SL-733-SA5C-SB-0.0-0.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-22	Subsurface	SL-733-SA5C-SB-4.0-5.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-22	Subsurface	SL-733-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-22	Subsurface	SL-733-SA5C-SB-9.0-10.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-22	Subsurface	SL-733-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-734	West Side of B4057	Sample location targets access way west of B4057 observed in aerial photographs and serves as step out for TPH at SABS1004 near utility trench. Maximum TPH at 6 feet bgs in SABS1004.	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 1.5 to 10.1 ft. Trace igneous/metamorphic gravel from 0.17 to 0.5 ft. Trace charcoal from 4.0 to 10.1 ft.	2012-05-21	Surface	SL-734-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-21	Subsurface	SL-734-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-21	Subsurface	SL-734-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-21	Subsurface	SL-734-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-21	Subsurface	SL-734-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-735	West of B4057	Representative location (at surface) in operations area and step out for TPH at NSTS02S01 and silver (confirmation) at NSTSS02/S03 in utility trench.	10	Trace asphalt and igneous/metamorphic gravel from 0.0 to 1.0 ft.	2012-04-12	Surface	SL-735-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-17	Subsurface	SL-735-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-17	Subsurface	SL-735-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-17	Subsurface	SL-735-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-17	Subsurface	SL-735-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-736	West of B4057	Recollected silver at previous elevated detections (NSTS02S02/NSTS02S03 at 3 to 5 feet bgs) to assess potential laboratory bias. Location also serves as step out for TPH detection to the west.	10	Trace igneous/metamorphic gravel from 0.0 to 10.0 ft.	2012-05-17	Subsurface	SL-736-SA5C-SB-2.0-3.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020
					2012-05-17	Subsurface	SL-736-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-17	Subsurface	SL-736-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-17	Subsurface	SL-736-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-17	Subsurface	SL-736-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-737	West of B4057	Step-down below utility trench for TPH at 3.5 feet at NSTS02S01; also serves as step out for silver detected in NSTS02S02/NSTS02S03 at 3 to 5 feet bgs. Surface sample provides representative sample for potential surficial release in operational area adjacent to equipment storage (B4626). Analytical supplements previous sampling suite (metals, TPH, and PAHs only in previous sample); see also 5C_DG-739.	10	Trace igneous/metamorphic gravel from 0.0 to 10.0 ft. Trace red brick fragments from 7.0 to 10.0 ft.	2012-04-12	Surface	SL-737-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-17	Subsurface	SL-737-SA5C-SB-2.5-3.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020
					2012-05-17	Subsurface	SL-737-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-17	Subsurface	SL-737-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-17	Subsurface	SL-737-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-17	Subsurface	SL-737-SA5C-SB-10.0	TPH-GRO EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-738	West of B4057	Same as 5C_DG-735.	10	Asphalt from 0.0 to 0.17 ft. Trace igneous/metamorphic gravel from 0.17 to 10.1 ft.	2012-05-17	Surface	SL-738-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-17	Subsurface	SL-738-SA5C-SB-4.0-5.0	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-17	Subsurface	SL-738-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-17	Subsurface	SL-738-SA5C-SB-9.0-10.0	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-17	Subsurface	SL-738-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-739	West Side of B4057	Step out for TPH at SABS1004 and silver (confirmation for previous, biased high silver) at NSTSS02/S03; serves to characterize utility trench and provides representative sample in operational area/access way between B4057 and B4626. Full analytical suite (also see 5C_DG-737).	10.4	Asphalt from 0.0 to 0.17 ft. Trace igneous/metamorphic gravel from 0.17 to 10.4 ft. Trace red brick fragments from 0.17 to 3.2 ft and 7.0 to 10.4 ft. Trace charcoal at 2.0 ft.	2012-05-17	Surface	SL-739-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-17	Subsurface	SL-739-SA5C-SB-4.0-5.0	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-17	Subsurface	SL-739-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-05-17	Subsurface	SL-739-SA5C-SB-9.0-10.0	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-05-24	Subsurface	SL-739-SA5C-SB-9.0-10.0ex	PCBs/PCTs EPA 8082
					2012-05-17	Subsurface	SL-739-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-740	West Side of B4057	Step-down for TPH at 6 feet at SABS1004, near utility trench (previous 10 foot sample not analyzed for TPH).	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 0.17 to 10 ft. Trace charcoal from 8.0 to 10.0 ft.	2012-05-21	Subsurface	SL-740-SA5C-SB-9.0-10.0	TPH-EFH EPA 8015
					2012-05-21	Subsurface	SL-740-SA5C-SB-10.0	TPH-GRO EPA 8015
5C_DG-741	North Side of B4057	Sample location targets storage along north side of B4057 observed in aerial photographs and serves as step out for TPH at SABS1004 near utility trench. Maximum TPH at 6 feet bgs in SABS1004. Includes Cr(VI) and formaldehyde to address operations involving cooling water use.	10.3	Asphalt from 0.0 to 0.25 ft. Trace red brick fragments from 0.25 to 1.0 ft.	2012-07-24	Surface	SL-741-SA5C-SB-0.0-0.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613, Formaldehyde EPA 8315
					2012-07-24	Subsurface	SL-741-SA5C-SB-4.0-5.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613, Formaldehyde EPA 8315
					2012-07-24	Subsurface	SL-741-SA5C-SB-4.5	TPH-GRO EPA 8015
					2012-07-24	Subsurface	SL-741-SA5C-SB-9.0-10.0	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613, Formaldehyde EPA 8315
					2012-07-24	Subsurface	SL-741-SA5C-SB-9.5	TPH-GRO EPA 8015
5C_DG-742	North of B4057	Representative sample in area between B4057 and B4039 to characterize for potential storage/operation associated with buildings. Includes Cr(VI) and formaldehyde to address operations involving cooling water use. Historical documentation indicates storage cabinet with chemicals was located on north wall of B4057 (SNAP RFI Report, 2008).	1.3	Asphalt from 0.0 to 0.25 ft.	2012-07-24	Surface	SL-742-SA5C-SB-0.0-0.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613, Formaldehyde EPA 8315

Table 2-1  
Soil Samples Collected from Subarea 5C - Phase 3

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-743	Former Diesel Tank	Sample location is step out for TPH at depth at SL-005-SA5C and targets location of former AST AT-SA-16 just outside of SNAP excavation. Analyzed sample at 2 feet since surface soil beneath for AST likely disturbed.	15.1	Trace red brick fragments from 0.0 to 6.0 ft. Trace igneous/metamorphic gravel from 6.5 to 8.5 ft and 12.0 to 15.1 ft.	2012-06-12	Subsurface	SL-743-SA5C-SB-1.0-2.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-12	Subsurface	SL-743-SA5C-SB-2.0	TPH-GRO EPA 8015
					2012-06-12	Subsurface	SL-743-SA5C-SB-4.0-5.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-12	Subsurface	SL-743-SA5C-SB-5.0	TPH-GRO EPA 8015
					2012-06-12	Subsurface	SL-743-SA5C-SB-9.0-10.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
					2012-06-12	Subsurface	SL-743-SA5C-SB-10.0	TPH-GRO EPA 8015
					2012-06-12	Subsurface	SL-743-SA5C-SB-14.0-15.0	PAH EPA 8270 SIM, TPH-EFH EPA 8015
5C_DG-744A	B4759 Transformer	PCB results ND with elevated RLs in previous samples (SABS01, SABS02). Transformers in Area IV with previous ND results were resampled with discrete samples. Recollected samples at three former discrete locations and analyzed each sample for PCBs.	2.5	Trace igneous/metamorphic gravel from 0.0 to 2.5 ft.	2012-04-16	Surface	SL-744A-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-04-16	Subsurface	SL-744A-SA5C-SB-1.5-2.5	PCBs/PCTs EPA 8082
5C_DG-744B	B4759 Transformer		3		2012-04-16	Surface	SL-744B-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
5C_DG-744C	B4759 Transformer				2012-04-16	Subsurface	SL-744B-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
5C_DG-744C	B4759 Transformer		3	Trace igneous/metamorphic gravel from 0.0 to 3.0 ft. Trace red brick fragments from 2.0 to 3.0 ft.	2012-04-16	Surface	SL-744C-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-04-16	Subsurface	SL-744C-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
5C_DG-745	Drainage east of B4038	Targets historical drainage feature observed in aerial photo (note EPA drainage sediment samples not collected due to lack of sediment in lined drainage). Collect/analyze (no hold) samples at depth due to potential recharge and depth uncertainty associated with feature (collect last sample just above bedrock).	N/A UTILITIES	Soil boring located along underground utility corridor. Locations will be sampled after removal of sub terrain utilities.				
5C_DG-746A	Former Transformer North of B4057	PCB results ND with elevated RLs in previous samples (SABS01, SABS02). Transformers in Area IV with previous ND results are being resampled with discrete samples. Recollect samples at four former discrete locations and analyze each sample for PCBs; hold deep samples pending shallow results.	N/A ACTIVE TRANSFORMERS	Locations next to live transformer. Samples will be collected after removal of transformers.				
5C_DG-746B	Former Transformer North of B4057							
5C_DG-746C	Former Transformer North of B4057							
5C_DG-746D	Former Transformer North of B4057							
5C_DG-747	West Bank of Drainage	Step out for PAHs and dioxins detected at SL-136-SA5C and SL-144-SA5C; sample location targets western bank of drainage (exact location verified in the field).	3.5	None Indicated.	2012-04-17	Surface	SL-747-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-06-26	Subsurface	SL-747-SA5C-SB-2.5-3.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, TPH-EFH EPA 8015, pH EPA 9045, Dioxins EPA 1613
					2012-06-26	Subsurface	SL-747-SA5C-SB-3.5	TPH-GRO EPA 8015

**Table 2-1**  
**Soil Samples Collected from Subarea 5C - Phase 3**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-750	B4062	Sample characterizes area for potential fuel line leading from UST to B4062. Analyze general suite (PAHs, PCBs, dioxins, metals, TPH) due to testing activities in the building.	7	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 6.9 ft. Trace concrete from 0.25 to 0.5 ft.	2012-05-29	Surface	SL-750-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-29	Subsurface	SL-750-SA5C-SB-5.5-6.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-05-29	Subsurface	SL-750-SA5C-SB-6.5	TPH-GRO EPA 8015
5C_DG-751	B4062	Sample characterizes area for potential fuel line leading from UST to B4062. Analyze general suite (PAHs, PCBs, dioxins, metals, TPH) due to testing activities in the building. Conduct geophysical survey to assess actual location of fuel conveyance line. Hold 10 foot sample pending results in 0.5 and 5 foot samples.	N/A GEOPHYSICS REQUIRED	Geophysics required prior to sampling this location.				
5C_DG-752	North Edge of Alcohol Drainage Pond	Location targets north edge of Alcohol Drainage Pond. Analyzed hexavalent chromium to delineate detection to the west.	2.3	Concrete from 0.0 to 0.25 ft.	2012-05-30	Surface	SL-752-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
5C_DG-754	Drainage east of B4383 operational area	Targets topographic low and surface water collection area before entrance to lined subsurface culvert. Collected samples at 0.5 feet and at 5-foot intervals to bedrock with deepest sample just above bedrock due to potential recharge. Analyzed all depths for PAHs, PCBs, dioxins, metals, perchlorate, pH, and soil moisture.	7.5	Trace red brick fragments from 0.0 to 3.0 ft.	2012-07-09	Surface	SL-754-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-754-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
					2012-07-09	Subsurface	SL-754-SA5C-SB-6.5-7.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-755	Culvert at F and 20th Street	Targets unlined drainage before entrance to lined subsurface culvert. Collected samples at 0.5 feet and at 5-foot intervals to bedrock with deepest sample just above bedrock due to potential recharge. Analyzed all depths for PAHs, PCBs, dioxins, metals, TPH, pH, and soil moisture.	6.5	Trace igneous/metamorphic gravel and red brick fragments from 0.0 to 4.0 ft.	2012-07-10	Surface	SL-755-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-07-10	Subsurface	SL-755-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-07-10	Subsurface	SL-755-SA5C-SB-4.5	TPH-GRO EPA 8015
					2012-07-10	Subsurface	SL-755-SA5C-SB-5.5-6.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
					2012-07-10	Subsurface	SL-755-SA5C-SB-6.0	TPH-GRO EPA 8015

**Notes & Abbreviations:**

Note: The sample number for a "duplicate sample" was increased by 300 (e.g. SB-530 and SB-830)

AST = Above-ground Storage Tank

B(a)P = benzo (a) pyrene

BG = Background

bgs = below ground surface

Cr (VI) = hexavalent chromium

EPA = Environmental Protection Agency

DTSC = Department of Toxic Substances Control

ft = feet

hg = mercury

HSA = Historical Site Assessment

ISL = interim screening level

L = liter

ng/kg = nanogram per kilogram

ND = nondetect

NDMA = n-Nitrosodimethylamine

PAH = polyaromatic hydrocarbon

PCB = polychlorinated biphenyl

ppb = parts per billion

ppm = parts per million

ppt = part per trillion

RL = reporting limit

SPTF = Sodium Pump Test Facility

TEQ = toxicity equivalency factor

TPH = total petroleum hydrocarbons

UST = underground storage tank

SNAP RFI, 2008 = Systems for Nuclear Auxiliary Power

Samples with shallow refusal

Samples not collected



After the samples were collected and labeled “Top” and “Bottom,” adhesive sample labels, completed with all sampling information, were affixed to all sample sleeves and jars, which were then placed into plastic zip top bags and stored in a cooler with double bagged ice until the samples were relinquished to the project sample coordinator or field team leader (FTL). Each surface sample was to be analyzed for the analytes identified for each sample location as indicated in Table 1 of the Subarea 5C Data Gap Analysis TM.

## 2.2 Subsurface Sampling

Most of the subsurface soil sampling was performed by a California-licensed DPT subcontractor under CDM Smith oversight and in accordance with SSFL SOP 4 of the Master FSP. The majority of the Phase 3 DPT borings in Subarea 5C were advanced to depths of between approximately 5 and 10 feet bgs. Table 2-1 provides the actual depths reached at each location. Appendix E also provides the specific boring log for each sample.

Soil cores were collected using the DPT dual-tube sampling method, which consists of a 2-inch outer steel drive casing and an inner 1¾-inch diameter acetate soil sampling sleeve. After the liner was retracted from the core barrel, it was opened lengthwise with a cutting tool. Samples were collected from the acetate sleeve by the CDM Smith sampler at the depths specified in Table 1 of the Subarea 5C Data Gap Analysis TM. Samples were also collected from any depths where the PID detected concentrations above background or where there was visual evidence of possible contamination.

Soil for volatile organic compounds (VOCs)/1,4-dioxane and/or total petroleum hydrocarbons-gasoline range organics (TPH-GRO) analyses was collected from the acetate sleeve using EnCore® samplers. Subsurface soil for semivolatile organic compound (SVOC), poly aromatic hydrocarbon (PAH), and polychlorinated biphenyl/polychlorinated triphenyl (PCB/PCT) analyses was removed from the acetate sleeve in a manner causing minimal soil disturbance and placed into glass jars (ranging from four ounces to 16 ounces depending on volume of soil needed for the required analyses). Soil for all non-volatile analyses was also placed into glass jars. Adhesive sample labels were completed with all sampling information and affixed to each sample jar, and then placed into plastic zip top bags. The EnCore® samplers were placed into the bags in which they were received (three samplers per bag), and the sample label affixed to the outside of the bag. All jars and EnCore® samplers were placed in a cooler with double bagged ice.

Several subsurface locations were not accessible by the DPT rig and borings at these locations were advanced using a hand auger. Each location was augered to the required sample depth and every foot of augered soil was retrieved to the surface, placed in plastic bags and screened using the Micro R, Pancake, and PID. All borings were sampled in accordance with SSFL SOP 3 of the Master FSP, using a slide hammer equipped with stainless steel sleeves. Any EnCore® samplers needed were filled from the bottom end of the sleeve, and the sleeve was capped and submitted for the required analyses. This process was repeated at those locations where deeper samples were also to be collected.

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

## 2.3 Sample Handling

All soil samples were relinquished by the field sampler or geologist to CDM Smiths FTL or sample coordinator. The FTL or sample coordinator reviewed the completed FSDS for each submitted soil

sample and ensured that the sample labels were legible and correct and that the sample labels matched the information on the FSDS. Any discrepancies were discussed with the field samplers and corrections to the sample labels and/or FSDS were made as needed. All sample labels were covered with clear tape, the sleeves and jars placed back into their plastic zip top bag, and refrigerated.

All sampling information on the FSDS was input into the Scribe electronic database by the sampling coordinator and one or more chain-of-custody (CoC) forms were generated at the end of the day from the database. The FTL reviewed each CoC, corrected any discrepancies, and reprinted the CoC, as needed. All CoCs for the Phase 3 Subarea 5C sampling activities are presented in Appendix F. Each completed CoC was signed by the sampler and the FTL as the individual responsible for release of the samples to the courier. All samples were packed into coolers and shipped in accordance with SSFL SOP 11.

## 2.4 Field Quality Control Procedures

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

### 2.4.1 Field Duplicates and MS/MSD Samples

Both the field duplicates and MS/MSD samples were to be collected at a frequency of one per 20 parent soil samples collected. The field duplicate and MS/MSD samples are collected from the same location. The duplicate samples were submitted to the laboratory as separate (and blind: has a unique sample number) from the parent samples. The MS/MSD samples are additional volume of the parent samples collected in double or triple volume depending on the amount of soil needed by the analytical laboratories.

A total of 677 surface and subsurface samples were collected in Subarea 5C. Thirty-four MS/MSD and field duplicate samples should have been collected, but only 28 were collected and submitted to the laboratory for analysis. Due to the oversight of not collecting enough MS/MSD and field duplicate samples, a complete evaluation of the accuracy and precision of the Subarea 5C sampling activities for all samples could not be performed. The validation performed did not identify any extensive indications of accuracy or precision problems based on MS/MSDs and field duplicates. This oversight is considered to have minimal impact to the quality of the data overall. Processes have been added to the sampling program to ensure the correct number of quality control (QC) samples are collected.

### 2.4.2 Equipment Rinsate Blank Samples

Equipment rinsate blanks were collected weekly for both surface and subsurface samples regardless of the number of soil samples collected.

### 2.4.3 Field Blank Samples

Field blanks were to be collected once for each lot number of ASTM International Type II water that was used for decontamination. Three field blanks were collected during Phase 3 sampling in Subarea 5C.

### 2.4.4 Decontamination of Sampling Equipment

All sampling and drilling equipment was decontaminated by the DPT subcontractor and/or CDM Smith staff before and after completing each sample. This included the hand auger equipment, slide hammer equipment, split spoon sampler and drill rods for the geoprobe, Encore® sampler and other sampling equipment. All sampling equipment was cleaned with the triple rinse method described below between sampling of different depths at one location and between locations. The external surfaces of the equipment were washed with potable water and Alconox, or equivalent laboratory-grade detergent. Equipment was scrubbed until all visible dirt, grime, grease, oil, loose paint, rust flakes, etc., was removed. The equipment was then rinsed with potable water.

Any surface sampling equipment that came into contact with soil including the auger bucket and the slide hammer sampler cup and cap (that holds the stainless steel sleeves in place while sampling) were decontaminated as follows:

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

If the sampling device was not used immediately after being decontaminated, it was placed in a sealed plastic bag.

## 2.5 Analytical Laboratory Methods and Procedures

The Subarea 5C Phase 3 soil samples were subjected to analysis using at least one of the following analytical methods:

- Metals using EPA Methods 6020/6010, 7471A (mercury), and 7199/7196 (chromium VI)
- Soil pH using EPA Method 9045D
- PAHs and n-Nitrosodimethylamine (NDMA) using Method 8270C selective ion monitoring (SIM)
- Pesticides using EPA Method 8081A
- Herbicides using EPA Method 8151A
- PCBs/PCTs using EPA Method 8082
- Dioxins/furans using EPA Method 1613B
- Perchlorate using EPA Method 314.0, 6850
- Formaldehyde using EPA Method 8315A
- Alcohols using EPA Method 8015B
- Total Petroleum Hydrocarbons Extractable Fuel Hydrocarbons (TPH EFH) using EPA Method 8015B EFH
- TPH GRO using EPA Method 8015B GRO
- Glycols, using EPA Method 8015M

At locations where PID measurements indicated the presence of VOCs above background and/or there was evident staining or organic odors, samples were to also be analyzed for:

- VOCs using EPA Method 8260B
- 1,4-dioxane using EPA Method 8260B SIM

All of the samples to be analyzed for terphenyls, formaldehyde, and dioxins were shipped to Lancaster Laboratories, Inc. (LLI) in Lancaster, Pennsylvania. Samples to be analyzed for all other analyses were submitted to EMAX Laboratories, Inc. (EMAX) located in Torrance, CA. LLI and EMAX were selected as a result of competitive procurement during the Phase 1 sampling in Area IV.

## 2.6 Data Review Processes

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

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

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

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

## 2.7 Deviations from the Master FSP

During the Phase 3 field sampling and analytical programs, modifications from the procedures detailed in the Master FSP (CDM Smith 2011a) and project SOPs were required. These modifications and associated resolutions were discussed with the FTL, the project manager, and in some cases with the DTSC representative prior to implementation. In other instances, deviations were effected in the

field that were not discussed with the project manager or DTSC prior to their implementation. These deviations are described below.

### 2.7.1 Field Sampling

A total of 204 locations in Subarea 5C (Table 2-1) were to be sampled at one or more depths. No subsurface samples were collected at 19 locations as noted in Table 2-1 due to shallow refusal at less than 2.5 feet bgs. Samples that had shallow refusal are highlighted yellow in Table 2-1. Some subsurface samples were collected at locations with depths less than 2.5 feet bgs and are not included in the highlighted locations. These locations were sampled at shallow depths because, either Table 1 in the Data Gap Analysis TM or a field observation required the shallow sample interval.

Surface soil samples at 57 locations identified in Table 2-2 were collected from an acetate sleeve using the DPT rig and placed into glass jars instead of being collected in accordance with SSFL SOP 2. The SSFL SOP 2 requires samples for nonvolatile organic or inorganic compounds to be collected using a clean slide hammer and decontaminated stainless steel sleeves to drive a sample from 0 to 6-inches bgs and for VOC analysis to utilize the EnCore® sampler method. The samples associated with this deviation are presented in Table 2-2.

Surface soil at locations SL-521, SL-558A, SL-558B, SL-558D, SL-559 and SL-752 was too loose to remain in the stainless steel sampling sleeve and was thus sampled directly from the hand auger bucket and placed into a glass jar. The samples affected by this deviation are presented in Table 2-3. The effect of these two deviations (DPT rig sampling and loose soils) on sample results will be evaluated in the chemical data summary reports.

According to SSFL SOPs 2 and 3 for Phase 3, soil to be analyzed for pH in surface and subsurface samples collected in a stainless steel sleeve are to be removed from the center of the bottom end of the sleeve using a plastic spoon and placed into a glass jar. Some of the initial pH samples were collected by the Phase 1 method, which was different than the Phase 3 method in that it did not require a separate jar for the pH analysis. During Phase 1, the soil used for pH analysis was included in the stainless steel sleeve where then the laboratory used an aliquot of soil taken directly from the sleeve for the analysis of pH. This oversight was identified by the FTL and the procedure was corrected to follow SSFL SOPs 2 and 3 for Phase 3.

Due to a sampling oversight some analyses were inadvertently not performed. These samples will be evaluated in the chemical data summary reports to determine if resampling is required. The following sample analyses were not performed: 5C-DG-517 – formaldehyde; 5C-DG-536 – dioxins; 5C-DG-674 – pesticides; 5C-DG-676 – dioxins; and 5C-DG-733 – formaldehyde. A check system has been put in place to verify the analytical method and rationale column match before future sampling activities.

### 2.7.2 Analytical

Sample SL-618-SA5C-SB-0.0-1.0 was identified in the FSP as requiring analysis of perchlorate by EPA method 6850. This soil sample was analyzed for perchlorate by EPA method 314.1, resulting in a method reporting limit (MRL) of 20.9 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ). Two equipment blanks (EB-050312 and EB2-062112) were also analyzed by EPA method 314.1 instead of EPA method 6850, resulting in elevated MRLs. The chain-of-custodies that accompanied these samples incorrectly identified EPA method 314.1 instead of EPA method 6850. During future data assessments it may be determined that this sample location may need to be resampled due to the elevated reporting limit.

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Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-539	Storage area north of Alcohol Drainage Pond	Representative sampling completes characterization of open storage area.	7.9	Concrete from 0.0 to 1.0 ft. Road base from 1.0 to 1.5 ft.	2012-06-05	Surface	SL-539-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-543	Storage area north of Alcohol Drainage Pond	Representative sampling completes characterization of open storage area; also targets drainage swale north of the pond.	4.3	Concrete from 0.0 to 0.8 ft. Igneous/metamorphic gravel (road base) from 0.8 to 1.5 ft.	2012-06-05	Surface	SL-543-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-544	Storage area north of Alcohol Drainage Pond	Representative sampling completes characterization of open storage area.	6.7	Concrete from 0.0 to 0.8 ft. Igneous/metamorphic gravel and concrete pieces from 0.8 to 2.0 ft.	2012-05-30	Surface	SL-544-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-545	Petroleum tank south of B4462	Representative sampling completes characterization of open storage area. Targets petroleum storage tank. PAHs will delineate detects at U5BS1052 (2,080 ppb of B(a)P). Location assesses potential for surface release and delineates surficial impacts.	10	Asphalt from 0.0 to 0.25 ft. Trace red brick fragments and igneous/metamorphic gravel from 0.25 to 2.0 ft. Igneous/metamorphic gravel from 9.0 to 10.0 ft.	2012-06-04	Surface	SL-545-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-546	South of B4462	Representative sampling completes characterization of open storage area. PAHs will delineate detects at U5BS1052 (1,000 ppb of B(a)P).	10	Concrete from 0.0 to 0.4 ft. Igneous/metamorphic gravel (road base) from 0.4 to 1.0 ft.	2012-06-06	Surface	SL-546-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-550	Unknown tank west of B4463	Sample targets storage tanks with unknown contents. Location addresses potential surface release from tank.	2.4	Asphalt from 0.0 to 0.08 ft.	2012-05-30	Surface	SL-550-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-551	Alcohol AST south of B4463	Sample targets alcohol storage tank; no previous sample collected. Location addresses potential surface release from tank.	5.3	Concrete from 0.0 to 0.8 ft. Igneous/metamorphic gravel (road base) from 0.8 to 1.4 ft.	2012-06-05	Surface	SL-551-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-552	Unknown tank west of B4463	Sample targets storage tank with unknown contents identified during sitewide aerial photo review. Location addresses potential surface release from tank.	1	Asphalt from 0.0 to 0.3 ft. Trace igneous/metamorphic gravel from 0.3 to 1.0	2012-06-05	Surface	SL-552-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-554	Unknown tank west of B4463	Sample targeting storage tank with unknown contents identified during sitewide aerial photo review. Hold deep samples pending shallow results since location addresses potential surface release from tank.	2	Asphalt from 0.0 to 0.25 ft. Asphalt and concrete from 0.25 to 0.33 ft. Igneous/metamorphic gravel from 0.33 to 2.0 ft.	2012-05-29	Surface	SL-554-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-555	Unknown tank north of B4463	Sample targets storage tank with unknown contents identified during sitewide aerial photo review. Location addresses potential surface release from tank.	3.5	Asphalt from 0.0 to 0.25 ft. Pieces of asphalt, concrete, igneous/metamorphic gravel from 0.25 to 3.5 ft.	2012-05-29	Surface	SL-555-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-559	Unknown tanks east of B4462	Targets three ASTs with unknown contents. PCBs are targeting discrete location due to detection at composite sample U5B11014. Collect sample at 3 feet due to PCB re-analysis and collect deeper sample 5 feet below.	8	Asphalt from 0.0 to 0.17 ft. Trace igneous/metamorphic gravel and red brick fragments from 0.17 to 5.0 ft.	2012-06-07	Surface	SL-559-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-561	Drainage swale west of pond	Targets drainage swale feature and stepout for dioxins to the north. Hold deep samples pending shallow results since location targets lined asphalt swale.	6.7	Asphalt from 0.0 to 0.25 ft.	2012-06-05	Surface	SL-561-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
5C_DG-562	South of B4462	Stepout to delineate PAHs at U5BS1053. Deeper samples on hold pending shallow since no detections above ISLs at depth in adjacent samples.	10	Igneous/metamorphic gravel from 0.0 to 10.0 ft.	2012-06-01	Surface	SL-562-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, TPH-EFH EPA 8015
5C_DG-563	South of B4462	Stepout to delineate PAHs at SL-095 and U5BS1053. Deeper samples on hold pending shallow since no detections above ISLs at depth in adjacent samples.	10	Asphalt from 0.0 to 0.5 ft. Igneous/metamorphic gravel from 0.5 to 10.1 ft.	2012-06-01	Surface	SL-563-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, TPH-EFH EPA 8015

**Table 2-2**  
**Soil Samples Collected by DPT**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-564	South of B4462	PCBs, dioxins to delineate detections at SL-096. PAHs to delineate detections at SL-096 and U5BS1053. Deeper samples on hold pending shallow since no detections above ISLs at depth in adjacent samples.	10	Asphalt from 0.0 to 0.5 ft. Trace red brick fragments from 0.0 to 10.0 ft. Trace igneous/metamorphic gravel from 3.0 to 5.5 ft.	2012-06-04	Surface	SL-564-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Dioxins EPA 1613
5C_DG-565	South of B4462	Same as 5C_DG-564.	10	Trace red brick fragments from 0.0 to 3.5 ft. Trace igneous/metamorphic gravel from 3.5 to 8.0 ft.	2012-06-04	Surface	SL-565-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Dioxins EPA 1613
5C_DG-567	Southeast of B4462	Sample location delineates eastern extent of PAHs - highest value of 2,080 ppb of B(a)P (U5BS1052). Analyze dioxins since detections to the south.	3.9	Concrete from 0.0 to 0.5 ft. Trace red brick fragments from 0.5 to 3.9 ft.	2012-06-06	Surface	SL-567-SA5C-SB-0.0-0.5	PAH EPA 8270 SIM, Dioxins EPA 1613
5C_DG-568	Southeast of B4462	Sample location delineates eastern extent of PAHs. Targets north door of B4461 - Cr(VI) and formaldehyde due to evaporative cooler operation in bldg.	10.2	Concrete from 0.0 to 0.7 ft. Igneous/metamorphic gravel from 0.7 to 1.4 ft.	2012-06-06	Surface	SL-568-SA5C-SB-0.0-0.5	Hexavalent Chromium EPA 7196/7199, PAH EPA 8270 SIM, Formaldehyde EPA 8315
5C_DG-569	Southeast of B4462	Co-locate dioxins with highest B(a)P value (U5BS1052).	5.1	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 1.0 ft.	2012-06-04	Surface	SL-569-SA5C-SB-0.0-0.5	Dioxins EPA 1613
5C_DG-572	Drainage east of B4462	Targets drainage east of operational area of B4462; also serves as stepout for PCB detections to the north.	5.4	Asphalt and igneous/metamorphic gravel from 0.0 to 0.25 ft. Trace red brick/pipe fragments from 0.25 to 1.2 ft.	2012-06-19	Surface	SL-572-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-573	Southern door of B4461 pad	Targets southern door; Cr(VI) and formaldehyde due to evaporative cooler in B4461. Complete SPTF analytical suite (PCBs, alcohols, glycols).	10	Asphalt from 0.0 to 0.25 ft. Trace red brick fragments from 0.25 to 2.0 ft.	2012-06-04	Surface	SL-573-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, PCBs/PCTs EPA 8082, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Formaldehyde EPA 8315
5C_DG-583	South of B4100	Stepout from SL-073, SL-074 for dioxins(3.07 ppt), metals, PAHs (chrysene detected at 1.11 ISL; however elevated B(a)P RLS combined with dioxins at > 31 BG indicates potential for PAHs).	5.3	Asphalt from 0.0 to 0.17 ft. Trace igneous/metamorphic gravel from 0.17 to 0.5 ft.	2012-07-24	Surface	SL-583-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, Dioxins EPA 1613
5C_DG-594	North of B4100	Stepout location for dioxins at SL-056 and SL-057 (126.7 ppt and 229.3 ppt, respectively); also serves to assess the area near a large roll up door. Other analytical suites added to due potential sodium cleaning in area.	10	Concrete from 0.0 to 0.42 ft. Trace igneous/metamorphic gravel and asphalt pieces from 0.42 to 10.0 ft.	2012-06-21	Surface	SL-594-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-607	Field east of B4100	Representative sample of mounded material observed in EPA aerial photo review. Analytical suites selected since detected in other portions of the area. Originally planned as an exploratory trench, but blocked by large baker tank. Changed to soil being per DTSC.	10.4	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 0.5 ft. Trace red brick fragments from 0.5 to 4.0 ft.	2012-07-11	Surface	SL-607-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-611	B100 Trench	Representative sample of open storage area. Analytical suite selected due to other detections in surrounding areas.	6	Igneous/metamorphic gravel (road base) from 0.0 to 0.5 ft.	2012-05-31	Subsurface	SL-611-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-618	B100 Trench	Stepout location for metals at BHBS1000 and BHBS1405 (Ba up to 980 ppm [71 BG]). Perchlorate added since detected in B100 Trench.	2.5	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 2.5 ft.	2012-05-30	Surface	SL-618-SA5C-SB-0.0-1.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, Perchlorate EPA 314.0/331, pH EPA 9045
5C_DG-619	B100 Trench	Same as 5C_DG-618.	2	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 2.0 ft.	2012-05-30	Surface	SL-619-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, pH EPA 9045

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-620	B100 Trench	Bound the eastern margin of the B100 Trench excavation. PCBs analyzed due to limited coverage in eastern trench. dioxins, metals, perchlorate and TPH analyzed due to detections in trench.	1.9	Asphalt from 0.0 to 0.25 ft. Igneous/metamorphic gravel, pieces of asphalt, pieces of concrete from 0.25 to 1.9 ft.	2012-05-29	Surface	SL-620-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-621	B100 Trench	Same as 5C_DG-620.	1.7	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 1.0 ft.	2012-05-30	Surface	SL-621-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-670	Storage Area West of B4065	Step out sample to delineate dioxins and metals at SL-043. TPH added since detected in storage area. Detections observed at SL-039 and SL-043 at depth.	5	Asphalt from 0.0 to 0.33 ft. Trace red brick fragments from 0.33 to 3.0 ft.	2012-06-19	Surface	SL-670-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-672	Storage Area West of B4065	Same as 5C_DG-670	5	Asphalt from 0.0 to 0.25 ft. Trace red brick fragments from 0.25 to 2.5 ft.	2012-05-24	Surface	SL-672-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-674	Storage Area West of B4065	Location targets undefined feature/structure (1980 aerial) in open storage area. Also serves as step out sample to delineate dioxins and metals at SL-043 and TPH and pesticides at SL-039.	3.5	Asphalt from 0.0 to 0.33 ft.	2012-05-23	Surface	SL-674-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-675	Open storage area West of B4065	Step out to delineate TPH and pesticides. Dioxins and metals analyzed since detected in storage area.	1.6	Asphalt from 0.0 to 0.08 ft.	2012-05-23	Surface	SL-675-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Pesticides EPA 8081, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613, Dioxins EPA 1613
5C_DG-676	Storage Area Northwest of B4065	Step out sample to delineate dioxins and metals at SL-043. TPH added since detected in storage area.	5.1	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 0.17 to 1.2 ft.	2012-05-23	Surface	SL-676-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Pesticides EPA 8081, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-677	Open storage area West of B4065	Sample assesses storage area (observed in 1978, 1980 aerial photos) based on previous detections (dioxins, metals, TPH).	5	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 5.0 ft. Trace red brick fragments from 0.25 to 3.0 ft.	2012-05-24	Surface	SL-677-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-678	Storage Area Northwest of B4065	Step out to delineate TPH and pesticides SL-039 and assess storage area. dioxins and metals analyzed since detected in storage area.	3.5	Asphalt from 0.0 to 0.22 ft. Trace red brick fragments from 0.22 to 1.5 ft.	2012-05-23	Surface	SL-678-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Pesticides EPA 8081, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-682	South of B4626	Same as 5C_DG-680.	10	Asphalt from 0.0 to 0.17 ft. Trace charcoal from 0.17 to 1.5 ft. Trace red brick fragments from 5.0 to 7.0 ft.	2012-05-22	Surface	SL-682-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-694	Storage Yard West of B4065	Representative sampling addresses storage area west of B4065 observed in aerial photographs (1980, 1983).	10	Asphalt from 0.0 to 0.25 ft. Trace red brick fragments from 0.0 to 3.0 ft. and at 7.0 ft.	2012-05-24	Surface	SL-694-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-704	Storage Yard West of B4065	Representative sampling addresses storage area west of B4065 observed in aerial photographs (1980, 1983).	10	Asphalt from 0.0 to 0.25 ft. 15% igneous/metamorphic gravel from 0.0 to 4.2 ft. Trace red brick fragments from 2.0 to 4.2 ft.	2012-05-24	Surface	SL-704-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-705	Storage Yard West of B4065	Representative sampling addresses storage area west of B4065 observed in aerial photographs (1980, 1983).	10	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel and red brick fragments from 0.25 to 5.0 ft.	2012-05-24	Surface	SL-705-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613

**Table 2-2**  
**Soil Samples Collected by DPT**

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-706	Building 4065	Sample targets B4065 footprint. Analytical suites selected to address historical operations in B4065.	10	Asphalt from 0.0 to 0.25 ft. Trace concrete from 0.0 to 5.0 ft. Trace igneous/metamorphic gravel from 0.0 to 10.0 ft.	2012-05-29	Surface	SL-706-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-723	East of B4065	One of three representative samples (5C_DG-711 ,5C_DG-724, 5CN_DG-723) to assess operational area east of B4065 and west of B4062/B4066.	10	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 7.0 ft.	2012-05-29	Surface	SL-723-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-724	Northeast of B4065	One of three representative samples (5C_DG-711 ,5C_DG-724, 5CN_DG-723) to assess operational area east of B4065 and west of B4062/B4066.	10	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 7.5 ft.	2012-05-29	Surface	SL-724-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-727	Southwest of B4057	Representative sample in operational area west of B4057; may serve as stepout for TPH impacts south of B4057 and/or stepout for deep impacts if observed at dry well to east.	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments and charcoal from 3.0 to 10.0 ft.	2012-05-21	Surface	SL-727-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-728	South of B4057	Step out for TPH detections at SABS1005. Deepest sample will target just above bedrock; Analyzed larger chemical suite depending on 5C_DG-730 and/or 5C_DG-731 results near bedrock to assess migration along bedrock from drywell.	10	Asphalt from 0.0 to 0.17 ft. Trace igneous/metamorphic gravel from 0.17 to 7.0 ft. Trace charcoal from 4.0 to 7.0 ft. Trace red brick fragments from 0.0 to 10.0 ft.	2012-05-21	Surface	SL-728-SA5C-SB-0.0-0.5	TPH-EFH EPA 8015
5C_DG-729	South of B4057	Same as 5C_DG-728.	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 0.17 to 10.1 ft. Trace igneous/metamorphic gravel from 7.5 to 10.1 ft.	2012-05-21	Surface	SL-729-SA5C-SB-0.0-0.5	TPH-EFH EPA 8015
5C_DG-730	Dry Well South of B4057	Step out / step-down for TPH and metals in samples targeting dry well (SL-030, SL-031); includes NDMA, Cr(VI), and formaldehyde to address operations involving cooling water use.	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 0.17 to 4.2 ft.	2012-05-22	Surface	SL-730-SA5C-SB-0.0-0.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, TPH-EFH EPA 8015, Formaldehyde EPA 8315
5C_DG-731	Dry Well South of B4057	Same as 5C_DG-730.	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 4.0 to 8.0 ft. Trace igneous/metamorphic gravel from 0.17 to 10.1 ft.	2012-05-22	Surface	SL-731-SA5C-SB-0.0-0.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, pH EPA 9045, TPH-EFH EPA 8015, Formaldehyde EPA 8315
5C_DG-733	Sewer discharge from B4057	Targets sewer discharge from B4057; includes Cr(VI) and formaldehyde to address operations involving cooling water use. Analyzed larger chemical suite in deep sample depending on 5C_DG-732 results near bedrock to assess migration along bedrock from drywell.	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 3.5 to 5.0 ft. Trace igneous/metamorphic gravel and charcoal from 7.0 to 10.0 ft.	2012-05-22	Surface	SL-733-SA5C-SB-0.0-0.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-734	West Side of B4057	Sample location targets access way west of B4057 observed in aerial photographs and serves as step out for TPH at SABS1004 near utility trench. Maximum TPH at 6 feet bgs in SABS1004.	10	Asphalt from 0.0 to 0.17 ft. Trace red brick fragments from 1.5 to 10.1 ft. Trace igneous/metamorphic gravel from 0.17 to 0.5 ft. Trace charcoal from 4.0 to 10.1 ft.	2012-05-21	Surface	SL-734-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-738	West of B4057	Representative location (at surface) in operations area and step out for TPH at NSTS02S01 and silver (confirmation) at NSTSS02/S03 in utility trench.	10	Asphalt from 0.0 to 0.17 ft. Trace igneous/metamorphic gravel from 0.17 to 10.1 ft.	2012-05-17	Surface	SL-738-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
5C_DG-739	West Side of B4057	Step out for TPH at SABS1004 and silver (confirmation for previous, biased high silver) at NSTSS02/S03; serves to characterize utility trench and provides representative sample in operational area/access way between B4057 and B4626. Full analytical suite (also see 5C_DG-737).	10.4	Asphalt from 0.0 to 0.17 ft. Trace igneous/metamorphic gravel from 0.17 to 10.4 ft. Trace red brick fragments from 0.17 to 3.2 ft and 7.0 to 10.4 ft. Trace charcoal at 2.0 ft.	2012-05-17	Surface	SL-739-SA5C-SB-0.0-0.5	Dioxins EPA 1613, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-741	North Side of B4057	Sample location targets storage along north side of B4057 observed in aerial photographs and serves as step out for TPH at SABS1004 near utility trench. Maximum TPH at 6 feet bgs in SABS1004. Includes Cr(VI) and formaldehyde to address operations involving cooling water use.	10.3	Asphalt from 0.0 to 0.25 ft. Trace red brick fragments from 0.25 to 1.0 ft.	2012-07-24	Surface	SL-741-SA5C-SB-0.0-0.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613, Formaldehyde EPA 8315
5C_DG-742	North of B4057	Representative sample in area between B4057 and B4039 to characterize for potential storage/operations associated with buildings. Includes Cr(VI) and formaldehyde to address operations involving cooling water use. Historical documentation indicates storage cabinet with chemicals was located on north wall of B4057 (SNAP RFI Report, 2008).	1.3	Asphalt from 0.0 to 0.25 ft.	2012-07-24	Surface	SL-742-SA5C-SB-0.0-0.5	Hexavalent Chromium EPA 7196/7199, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613, Formaldehyde EPA 8315
5C_DG-750	B4062	Sample characterizes area for potential fuel line leading from UST to B4062. Analyze general suite (PAHs, PCBs, dioxins, metals, TPH) due to testing activities in the building.	7	Asphalt from 0.0 to 0.25 ft. Trace igneous/metamorphic gravel from 0.25 to 6.9 ft. Trace concrete from 0.25 to 0.5 ft.	2012-05-29	Surface	SL-750-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613
5C_DG-754	Drainage east of B4383 operational area	Targets topographic low and surface water collection area before entrance to lined subsurface culvert. Collected samples at 0.5 feet and at 5-foot intervals to bedrock with deepest sample just above bedrock due to potential recharge. Analyzed all depths for PAHs, PCBs, dioxins, metals, perchlorate, pH, and soil moisture.	7.5	Trace red brick fragments from 0.0 to 3.0 ft.	2012-07-09	Surface	SL-754-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Dioxins EPA 1613
5C_DG-755	Culvert at F and 20th Street	Targets unlined drainage before entrance to lined subsurface culvert. Collected samples at 0.5 feet and at 5-foot intervals to bedrock with deepest sample just above bedrock due to potential recharge. Analyzed all depths for PAHs, PCBs, dioxins, metals, TPH, pH, and soil moisture.	6.5	Trace igneous/metamorphic gravel and red brick fragments from 0.0 to 4.0 ft.	2012-07-10	Surface	SL-755-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Dioxins EPA 1613

**Notes & Abbreviations:**

AST =  
 B(a)P = benzo (a) pyrene  
 BG =  
 bgs = below ground surface  
 Cr (VI) = hexavalent chromium  
 EPA = Environmental Protection Agency  
 DTSC = Department of Toxic Substances Control  
 ft = feet  
 hg = mercury  
 HSA = Historical Site Assessment  
 ISL = interim screening level  
 L = liter  
 ng/kg = nanogram per kilogram  
 ND = nondetect  
 NDMA = n-Nitrosodimethylamine  
 PAH = polyaromatic hydrocarbon  
 PCB = polychlorinated biphenyl  
 ppb = parts per billion

ppm = parts per million  
 ppt = part per trillion  
 RL = reporting limit  
 SPTF =  
 TEQ = toxicity equivalency factor  
 TPH = total petroleum hydrocarbons  
 UST = underground storage tank  
 SNAP RFI, 2008 =

Location ID	Location Description	Rationale / Comments	Boring Total Depth (ft bgs)	Fill Description	Sample Date	Sample Type	Sample Number	Laboratory Analyses
5C_DG-521	Historical drainage south of B4383 operational area	Targets historical drainage feature observed in aerial photo. Analyzed hexavalent chromium since detected above ISL updrainage. Collected/analyzed samples at depth due to potential recharge and depth uncertainty associated with feature.	10	Trace asphalt from 0.0 to 0.25 ft. Trace red brick fragments from 4.0 to 6.0 ft.	2012-06-11	Surface	SL-521-SA5C-SB-0.0-0.5	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-521-SA5C-SB-4.0-5.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
					2012-06-11	Subsurface	SL-521-SA5C-SB-9.0-10.0	Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, Perchlorate Confirmation EPA 6850/6860, pH EPA 9045, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613
5C_DG-558A	Transformer Sof B4462	Previous sample was a composite of four discrete samples with ND result. Transformers in Area IV with previous ND results were resampled with discrete samples. Recollected samples at four former discrete locations and analyze each sample for PCB.	3	Igneous/metamorphic gravel and concrete from 0.0 to 3.0 ft.	2012-06-01	Surface	SL-558A-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
					2012-06-01	Subsurface	SL-558A-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082
5C_DG-558B	Transformer Sof B4462		4.5	Igneous/metamorphic gravel and concrete from 0.0 to 4.5 ft.	2012-06-01	Surface	SL-558B-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
			2012-06-01		Subsurface	SL-558B-SA5C-SB-2.0-3.0	PCBs/PCTs EPA 8082	
5C_DG-558D	Transformer S of B4462		1.5	Igneous/metamorphic gravel and concrete from 0.0 to 1.5 ft.	2012-06-01	Surface	SL-558D-SA5C-SB-0.0-0.5	PCBs/PCTs EPA 8082
5C_DG-559	Unknown tanks east of B4462	Targets three ASTs with unknown contents. PCBs are targeting discrete location due to detection at composite sample U5B11014. Collected sample at 3 feet due to PCB re-analysis and collected deeper sample 5 feet below.	8	Asphalt from 0.0 to 0.17 ft. Trace igneous/metamorphic gravel and red brick fragments from 0.17 to 5.0 ft.	2012-06-07	Surface	SL-559-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-07	Subsurface	SL-559-SA5C-SB-2.0-3.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-07	Subsurface	SL-559-SA5C-SB-3.0	TPH-GRO EPA 8015
					2012-06-07	Subsurface	SL-559-SA5C-SB-7.0-8.0	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015
					2012-06-07	Subsurface	SL-559-SA5C-SB-8.0	TPH-GRO EPA 8015
5C_DG-752	North Edge of Alcohol Drainage Pond	Location targets north edge of Alcohol Drainage Pond. Analyzed hexavalent chromium to delineate detection to the west.	2.3	Concrete from 0.0 to 0.25 ft.	2012-05-30	Surface	SL-752-SA5C-SB-0.0-0.5	Alcohols EPA 8015, Glycols EPA 8015, Mercury EPA 7471, Metals EPA 6010, Metals EPA 6020, PAH EPA 8270 SIM, PCBs/PCTs EPA 8082, pH EPA 9045, TPH-EFH EPA 8015, Hexavalent Chromium EPA 7196/7199, Dioxins EPA 1613

**Notes & Abbreviations:**

AST =  
ft = feet  
ISL = interim screening level  
ND = nondetect  
PCB = polychlorinated biphenyl  
ppb = parts per billion

## Section 3

### Area IV Subarea 5C Phase 3 Soil Sampling Results

Because this TM only provides the analytical results, data in this section are presented in a summary fashion. Tables 3-1, 3-2 and 3-3 summarize the Phase 3 Subarea 5C surface, subsurface and combined soil sample data, respectively. The tables detail the chemicals analyzed, their associated chemical abstract service (CAS) number, their associated frequency of detection, the minimum and maximum detected concentrations, the range of observed detection limits and reporting limits (RLs), and the sample location where the maximum concentration of each analyte was detected. If two locations for the maximum concentration are listed and only one maximum concentration value is provided, this indicates that the concentration was the same at the specified depth at both locations.

When screening criteria are developed to assess the presence/absence of contamination (i.e., above/below the applicable criteria) the Subarea 5C Phase 3 data will be combined with the Phase 1 collocated data and the RCRA Facility Investigation data to better define the nature and extent of surface soil contamination throughout Subarea 5C.

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

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Table 3-1  
**Summary of Analytical Results for Chemicals - Validated Data**  
**Surface Soils - HSA - 5C - Phase 3**

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
1,4-Dioxane	1,4-Dioxane	123-91-1	0 / 1	-	-	4.7 - 4.7	9.4 - 9.4	µg/kg		-
Alcohols	2-Propanol	67-63-0	0 / 26	-	-	260 - 290	520 - 580	µg/kg		-
Alcohols	Ethanol	64-17-5	0 / 26	-	-	260 - 290	520 - 580	µg/kg		-
Alcohols	Methanol	67-56-1	0 / 26	-	-	260 - 290	520 - 580	µg/kg		-
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	99 / 115	1.5 J Z	16800 J *#	0.0104 - 0.44	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	94 / 115	0.302 J Z	1350	0.00433 - 0.283	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	64 / 115	0.04 J Z	126	0.00725 - 0.194	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	75 / 115	0.0316 J Z	113	0.0123 - 0.317	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	72 / 115	0.143 J Z	38.3	0.00841 - 0.208	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	98 / 115	0.052 J Z	663	0.0127 - 0.285	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	76 / 115	0.0273 J Z	33.5	0.00696 - 0.185	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	96 / 115	0.11 J Z	255	0.0118 - 0.293	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	86 / 115	0.09 J Z	5.01 J Z	0.00694 - 0.174	4.95 - 6.09	ng/kg	5C_DG-747	0 - 0.5
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	83 / 115	0.126 J Z	45.9	0.00784 - 0.106	4.95 - 6.09	ng/kg	5C_DG-577	0 - 0.5
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	79 / 115	0.0227 J Z	49.6	0.0122 - 0.232	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	70 / 115	0.0589 J Z	71.6	0.00623 - 0.174	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	2,3,4,7,8-PCDF	57117-31-4	55 / 115	0.219 J Z	11.4	0.00742 - 0.101	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	2,3,7,8-TCDD	1746-01-6	46 / 115	0.0175 J Z	7.68	0.00775 - 0.172	0.989 - 1.22	ng/kg	5C_DG-516	0 - 0.5
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	77 / 115	0.0157 J Z	2.34	0.0069 - 0.26	0.989 - 1.22	ng/kg	5C_DG-516	0 - 0.5
Dioxins	OCDD	3268-87-9	112 / 115	2.64 J Z	105000 J *#	0.0146 - 1.12	9.89 - 115	ng/kg	5C_DG-516	0 - 0.5
Dioxins	OCDF	39001-02-0	96 / 115	0.294 J Z	2380	0.014 - 0.141	9.89 - 12.2	ng/kg	5C_DG-516	0 - 0.5
Formaldehyde	Formaldehyde	50-00-0	1 / 13	3400	3400	630 - 1400	1600 - 3500	µg/kg	5C_DG-731	0 - 0.5
Glycols	Diethylene Glycol	111-46-6	0 / 26	-	-	7.7 - 8.8	15 - 18	mg/kg		-
Glycols	Ethylene Glycol	107-21-1	0 / 26	-	-	5.2 - 5.8	10 - 12	mg/kg		-
Glycols	Propylene Glycol	57-55-6	0 / 26	-	-	5.2 - 5.8	10 - 12	mg/kg		-
Herbicides	2,2-Dichlor-Propionic Acid	75-99-0	0 / 1	-	-	5.6 - 5.6	11 - 11	µg/kg		-
Herbicides	2,4,5-T	93-76-5	0 / 1	-	-	5.6 - 5.6	11 - 11	µg/kg		-
Herbicides	2,4-D	94-75-7	0 / 1	-	-	5.6 - 5.6	11 - 11	µg/kg		-
Herbicides	2,4-DB	94-82-6	0 / 1	-	-	5.6 - 5.6	11 - 11	µg/kg		-
Herbicides	Dicamba	1918-00-9	0 / 1	-	-	5.6 - 5.6	11 - 11	µg/kg		-
Herbicides	Dichlorprop	120-36-5	0 / 1	-	-	5.6 - 5.6	11 - 11	µg/kg		-
Herbicides	Dinitrobutyl Phenol	88-85-7	0 / 1	-	-	5.6 - 5.6	11 - 11	µg/kg		-
Herbicides	MCPA	94-74-6	0 / 1	-	-	1100 - 1100	2300 - 2300	µg/kg		-
Herbicides	MCPA	93-65-2	0 / 1	-	-	1100 - 1100	2300 - 2300	µg/kg		-
Herbicides	Silvex (2,4,5-TP)	93-72-1	0 / 1	-	-	5.6 - 5.6	11 - 11	µg/kg		-
Hexavalent Chromium	Hexavalent Chromium	18540-29-9	1 / 22	6.69	6.69	0.509 - 0.583	1.02 - 1.17	mg/kg	5C_DG-542	0 - 0.5
Mercury	Mercury	7439-97-6	20 / 141	0.0588 J Z	5.34	0.0501 - 0.534	0.1 - 1.07	mg/kg	5C_DG-524	0 - 0.5
Metals	Aluminum	7429-90-5	140 / 140	4220 J Q	31200	12 - 14.2	99.8 - 119	mg/kg	5C_DG-677	0 - 0.5
Metals	Antimony	7440-36-0	140 / 140	0.119 J Z	14.5 J Q	0.0998 - 0.119	0.499 - 0.593	mg/kg	5C_DG-542	0 - 0.5
Metals	Arsenic	7440-38-2	140 / 140	1.92	14	0.2 - 0.237	0.499 - 0.593	mg/kg	5C_DG-742	0 - 0.5
Metals	Barium	7440-39-3	140 / 140	23.4	456 J Q	0.2 - 0.237	0.499 - 0.593	mg/kg	5C_DG-542	0 - 0.5
Metals	Beryllium	7440-41-7	140 / 140	0.114 J Z	1.16	0.0499 - 0.0593	0.499 - 0.593	mg/kg	5C_DG-537	0 - 0.5
Metals	Boron	7440-42-8	58 / 140	2.74 J Z	22.1	2.49 - 2.97	4.99 - 5.93	mg/kg	5C_DG-678	0 - 0.5
Metals	Cadmium	7440-43-9	140 / 140	0.104 J Z	2.94	0.0499 - 0.0593	0.499 - 0.593	mg/kg	5C_DG-532	0 - 0.5
Metals	Calcium	7440-70-2	140 / 140	1740	30800 J Q	9.98 - 11.9	20 - 23.7	mg/kg	5C_DG-608	0 - 0.5
Metals	Chromium	7440-47-3	140 / 140	9.9 J Q	128 J Q	0.2 - 0.237	0.499 - 0.593	mg/kg	5C_DG-615	0 - 0.5
Metals	Cobalt	7440-48-4	140 / 140	2.31	11.5 J E	0.0499 - 0.0593	0.499 - 0.593	mg/kg	5C_DG-608	0 - 0.5
Metals	Copper	7440-50-8	140 / 140	3.07	146	0.2 - 0.237	0.499 - 0.593	mg/kg	5C_DG-691	0 - 0.5
Metals	Iron	7439-89-6	140 / 140	6100 J Q	39300	9.98 - 11.9	99.8 - 119	mg/kg	5C_DG-755	0 - 0.5
Metals	Lead	7439-92-1	140 / 140	1.35	649	0.0998 - 0.119	0.499 - 0.593	mg/kg	5C_DG-671	0 - 0.5
Metals	Lithium	7439-93-2	140 / 140	2.39	42.3	0.998 - 1.19	2 - 2.37	mg/kg	5C_DG-750	0 - 0.5
Metals	Magnesium	7439-95-4	140 / 140	1190	7290	4.99 - 5.93	9.98 - 11.9	mg/kg	5C_DG-555	0 - 0.5

**Table 3-1**  
**Summary of Analytical Results for Chemicals - Validated Data**  
**Surface Soils - HSA - 5C - Phase 3**

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Metals	Manganese	7439-96-5	140 / 140	94	482	0.249 - 0.297	0.499 - 0.593	mg/kg	5C_DG-575	0 - 0.5
Metals	Molybdenum	7439-98-7	140 / 140	0.251 J Z	8.51	0.0499 - 0.0593	0.499 - 0.593	mg/kg	5C_DG-621	0 - 0.5
Metals	Nickel	7440-02-0	140 / 140	6.53	72.8 J Q	0.2 - 0.237	0.499 - 0.593	mg/kg	5C_DG-615	0 - 0.5
Metals	Phosphorus	7723-14-0	140 / 140	62.3	745	5.99 - 7.12	12 - 14.2	mg/kg	5C_DG-554	0 - 0.5
Metals	Potassium	7440-09-07	140 / 140	555	4890	29.9 - 35.6	99.8 - 119	mg/kg	5C_DG-692	0 - 0.5
Metals	Selenium	7782-49-2	8 / 140	0.253 J Z	0.569	0.2 - 0.237	0.499 - 0.593	mg/kg	5C_DG-611	0 - 0.5
Metals	Silver	7440-22-4	39 / 140	0.0557 J Z	1.8	0.0499 - 0.0593	0.499 - 0.593	mg/kg	5C_DG-501	0 - 0.5
Metals	Sodium	7440-23-5	138 / 140	63.4 J Z	580	49.9 - 59.3	99.8 - 119	mg/kg	5C_DG-677	0 - 0.5
Metals	Strontium	7440-24-6	140 / 140	11.2 J Q	76	0.249 - 0.297	0.499 - 0.593	mg/kg	5C_DG-608	0 - 0.5
Metals	Thallium	7440-28-0	138 / 140	0.1 J Z	0.371 J Z	0.0499 - 0.0593	0.399 - 0.474	mg/kg	5C_DG-750	0 - 0.5
Metals	Tin	7440-31-5	3 / 140	6.37 J Z	11.5	4.99 - 5.93	9.98 - 11.9	mg/kg	5C_DG-691	0 - 0.5
Metals	Titanium	7440-32-6	140 / 140	217	1360	0.499 - 0.593	0.998 - 1.19	mg/kg	5C_DG-750	0 - 0.5
Metals	Vanadium	7440-62-2	140 / 140	13.8	54.5	0.0499 - 0.0593	0.499 - 0.593	mg/kg	5C_DG-537	0 - 0.5
Metals	Zinc	7440-66-6	140 / 140	13.1	3160	1.5 - 7.96	4.99 - 26.5	mg/kg	5C_DG-755	0 - 0.5
Metals	Zirconium	7440-67-7	4 / 140	2.72 J Z	4.81 J Q, Z	2.49 - 2.97	4.99 - 5.93	mg/kg	5C_DG-608	0 - 0.5
PAHs	1,1'-Biphenyl	92-52-4	0 / 138	-	-	2.6 - 55	5.2 - 110	µg/kg	-	-
PAHs	1-Methylnaphthalene	90-12-0	1 / 138	24 J Z	24 J Z	2.6 - 55	10 - 220	µg/kg	5C_DG-583	0 - 0.5
PAHs	2-Methylnaphthalene	91-57-6	1 / 138	31 J Z	31 J Z	2.6 - 55	10 - 220	µg/kg	5C_DG-583	0 - 0.5
PAHs	Acenaphthene	83-32-9	7 / 138	3.3 J S, Z	51	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Acenaphthylene	208-96-8	1 / 138	8.1 J Z	8.1 J Z	2.6 - 55	10 - 220	µg/kg	5C_DG-516	0 - 0.5
PAHs	Anthracene	120-12-7	11 / 138	4.7 J Z	92	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Azobenzene	103-33-3	0 / 138	-	-	2.6 - 55	5.2 - 110	µg/kg	-	-
PAHs	Benzo(a)anthracene	56-55-3	43 / 138	2.8 J Z	270	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Benzo(a)pyrene	50-32-8	48 / 138	2.8 J Z	310	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Benzo(b)fluoranthene	205-99-2	66 / 138	2.9 J Z	400	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Benzo(e)pyrene	192-97-2	78 / 138	3 J Z	190	2.6 - 55	5.2 - 110	µg/kg	5C_DG-517	0 - 0.5
PAHs	Benzo(g,h,i)perylene	191-24-2	61 / 138	2.8 J Z	190	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Benzo(k)fluoranthene	207-08-9	32 / 138	3.2 J Z	140	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Chrysene	218-01-9	43 / 138	2.8 J Z	330	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Dibenzo(a,h)anthracene	53-70-3	15 / 138	2.9 J Z	53	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Fluoranthene	206-44-0	58 / 138	2.7 J Z	710	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Fluorene	86-73-7	6 / 138	5.7 J Z	35	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	27 / 138	2.9 J Z	160	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Naphthalene	91-20-3	1 / 138	6.6 J Z	6.6 J Z	2.6 - 55	10 - 220	µg/kg	5C_DG-542	0 - 0.5
PAHs	N-Nitrosodimethylamine	62-75-9	1 / 138	2.7 J Z	2.7 J Z	2.6 - 55	10 - 220	µg/kg	5C_DG-536	0 - 0.5
PAHs	Phenanthrene	85-01-8	33 / 138	2.9 J S, Z	460	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Pyrene	129-00-0	55 / 138	3 J Z	670	2.6 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PCBsPCTs	Aroclor 1016	12674-11-2	0 / 165	-	-	10 - 12	21 - 24	µg/kg	-	-
PCBsPCTs	Aroclor 1221	11104-28-2	0 / 165	-	-	10 - 12	21 - 24	µg/kg	-	-
PCBsPCTs	Aroclor 1232	11141-16-5	0 / 165	-	-	10 - 12	21 - 24	µg/kg	-	-
PCBsPCTs	Aroclor 1242	53469-21-9	0 / 165	-	-	10 - 12	21 - 24	µg/kg	-	-
PCBsPCTs	Aroclor 1248	12672-29-6	0 / 165	-	-	10 - 12	21 - 24	µg/kg	-	-
PCBsPCTs	Aroclor 1254	11097-69-1	26 / 165	11 J Z	290	10 - 12	21 - 24	µg/kg	5C_DG-579	0 - 0.5
PCBsPCTs	Aroclor 1260	11096-82-5	17 / 165	14 J Z	1400	10 - 56	21 - 110	µg/kg	5C_DG-636	0 - 0.5
PCBsPCTs	Aroclor 1262	37324-23-5	0 / 165	-	-	10 - 12	21 - 24	µg/kg	-	-
PCBsPCTs	Aroclor 1268	11100-14-4	0 / 165	-	-	10 - 12	21 - 24	µg/kg	-	-
PCBsPCTs	Aroclor 5432	63496-31-1	0 / 165	-	-	21 - 24	41 - 48	µg/kg	-	-
PCBsPCTs	Aroclor 5442	12642-23-8	0 / 165	-	-	21 - 24	41 - 48	µg/kg	-	-
PCBsPCTs	Aroclor 5460	11126-42-4	12 / 165	31 J Z	64	21 - 24	41 - 48	µg/kg	5C_DG-524 5C_DG-673	0 - 0.5 0 - 0.5
Perchlorate	Perchlorate	14797-73-0	0 / 46	-	-	2.58 - 3	5.16 - 6.01	µg/kg	-	-
Pesticides	4,4'-DDD	72-54-8	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg	-	-

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

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Pesticides	4,4'-DDE	72-55-9	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	4,4'-DDT	50-29-3	1 / 4	1.9 J Z	1.9 J Z	0.42 - 0.46	2.1 - 2.3	µg/kg	5C_DG-615	0 - 0.5
Pesticides	Aldrin	309-00-2	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Alpha-Bhc	319-84-6	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Beta-Bhc	319-85-7	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Chlordane (Technical)	12789-03-6	0 / 4	-	-	5.3 - 5.7	11 - 11	µg/kg		-
Pesticides	Delta-Bhc	319-86-8	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Dieldrin	60-57-1	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Endosulfan I	959-98-8	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Endosulfan II	33213-65-9	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Endosulfan Sulfate	1031-07-8	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Endrin	72-20-8	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Endrin Aldehyde	7421-93-4	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Endrin Ketone	53494-70-5	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Gamma-Bhc (Lindane)	58-89-9	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Heptachlor	76-44-8	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Heptachlor Epoxide	1024-57-3	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Methoxychlor	72-43-5	0 / 4	-	-	2.1 - 2.3	5.3 - 5.7	µg/kg		-
Pesticides	Mirex	2385-85-5	0 / 4	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Technical Toxaphene	8001-35-2	0 / 4	-	-	11 - 11	53 - 57	µg/kg		-
pH	pH	pH	140 / 140	5.77	9.93	0.1 - 0.1	0.1 - 1	pH	5C_DG-674	0 - 0.5
TPH-EFH	EFH (C12-C14)	PHCC12C14	0 / 118	-	-	2.6 - 29	5.2 - 58	mg/kg		-
TPH-EFH	EFH (C15-C20)	PHCC15C20	4 / 118	3.3 J Z	9.2	2.6 - 29	5.2 - 58	mg/kg	5C_DG-727	0 - 0.5
TPH-EFH	EFH (C21-C30)	PHCC21C30	91 / 118	2.9 J Z	250	2.6 - 29	5.2 - 58	mg/kg	5C_DG-581	0 - 0.5
TPH-EFH	EFH (C30-C40)	PHCC30C40	88 / 118	5.9 J Z	600	5.2 - 58	10 - 120	mg/kg	5C_DG-552	0 - 0.5
TPH-EFH	EFH (C8-C11)	PHCC8C11	0 / 118	-	-	2.6 - 29	5.2 - 58	mg/kg		-
TPH-GRO	Gasoline Range Organics (C5-C12)	GROC5C12	0 / 1	-	-	0.47 - 0.47	0.94 - 0.94	mg/kg		-
VOC	1,1,1,2-Tetrachloroethane	630-20-6	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,1,1-Trichloroethane	71-55-6	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,1,2,2-Tetrachloroethane	79-34-5	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	1,1,2-Trichloroethane	79-00-5	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,1-Dichloroethane	75-34-3	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,1-Dichloroethene	75-35-4	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,1-Dichloropropene	563-58-6	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,2,3-Trichlorobenzene	87-61-6	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	1,2,3-Trichloropropane	96-18-4	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	1,2,4-Trichlorobenzene	120-82-1	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	1,2,4-Trimethylbenzene	95-63-6	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,2-Dibromo-3-chloropropane	96-12-8	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	1,2-Dibromoethane	106-93-4	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,2-Dichlorobenzene	95-50-1	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,2-Dichloroethane	107-06-2	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,2-Dichloropropane	78-87-5	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,3,5-Trimethylbenzene	108-67-8	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,3-Dichlorobenzene	541-73-1	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,3-Dichloropropane	142-28-9	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1,4-Dichlorobenzene	106-46-7	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	1-Chlorohexane	544-10-5	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	2,2-Dichloropropane	594-20-7	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	2-Butanone (MEK)	78-93-3	0 / 1	-	-	5 - 5	9.9 - 9.9	µg/kg		-
VOC	2-Chloro-1,1,1-trifluoroethane	75-88-7	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-

**Table 3-1**  
**Summary of Analytical Results for Chemicals - Validated Data**  
**Surface Soils - HSA - 5C - Phase 3**

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
VOC	2-Chloroethyl Vinyl Ether	110-75-8	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	2-Chlorotoluene	95-49-8	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	2-Hexanone	591-78-6	0 / 1	-	-	5 - 5	9.9 - 9.9	µg/kg		-
VOC	2-Phenylbutane	135-98-8	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	4-Chlorotoluene	106-43-4	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	4-Methyl-2-pentanone (MIBK)	108-10-1	0 / 1	-	-	5 - 5	9.9 - 9.9	µg/kg		-
VOC	Acetone	67-64-1	0 / 1	-	-	5 - 5	9.9 - 9.9	µg/kg		-
VOC	Acrolein	107-02-8	0 / 1	-	-	5 - 5	9.9 - 9.9	µg/kg		-
VOC	Acrylonitrile	107-13-1	0 / 1	-	-	5 - 5	9.9 - 9.9	µg/kg		-
VOC	Benzene	71-43-2	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Bromobenzene	108-86-1	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Bromochloromethane	74-97-5	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Bromodichloromethane	75-27-4	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Bromoform	75-25-2	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	Bromomethane	74-83-9	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	Carbon Disulfide	75-15-0	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	Carbon Tetrachloride	56-23-5	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Chlorobenzene	108-90-7	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Chloroethane	75-00-3	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	Chloroform	67-66-3	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Chloromethane	74-87-3	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	Chlorotrifluoroethylene	79-38-9	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	cis-1,2-Dichloroethene	156-59-2	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	cis-1,3-Dichloropropene	10061-01-5	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Cymene	99-87-6	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Di isopropyl Ether	108-20-3	0 / 1	-	-	5 - 5	9.9 - 9.9	µg/kg		-
VOC	Dibromochloromethane	124-48-1	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Dibromomethane	74-95-3	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Dichlorodifluoromethane	75-71-8	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	Ethylbenzene	100-41-4	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Hexachloro-1,3-butadiene	87-68-3	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	Isopropylbenzene	98-82-8	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	m,p-Xylene	179601-23-1	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	Methyl Iodide	74-88-4	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	Methyl Tert-Butyl Ether	1634-04-4	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Methylene Chloride	75-09-2	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	n-Butylbenzene	104-51-8	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	n-Propylbenzene	103-65-1	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	o-Xylene	95-47-6	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Styrene	100-42-5	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	tert-Butyl ethyl ether	637-92-3	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	tert-Butylbenzene	98-06-6	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Tertiary amyl methyl ether	994-05-8	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Tertiary butyl alcohol	75-65-0	0 / 1	-	-	9.9 - 9.9	20 - 20	µg/kg		-
VOC	Tetrachloroethene	127-18-4	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Toluene	108-88-3	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	trans-1,2-Dichloroethene	156-60-5	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	trans-1,3-Dichloropropene	10061-02-6	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Trichloroethene	79-01-6	0 / 1	-	-	0.99 - 0.99	5 - 5	µg/kg		-
VOC	Trichlorofluoromethane	75-69-4	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	Vinyl Acetate	108-05-4	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-
VOC	Vinyl Chloride	75-01-4	0 / 1	-	-	2 - 2	5 - 5	µg/kg		-

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

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

- ug/kg- microgram per kilogram
- mg/kg - milligram per kilogram
- ng/kg - nanogram per kilogram
- J - Result is an estimated value
- H - Holding times exceeded
- S - Surrogates outside of criteria
- C - Calibration recoveries outside of criteria
- R - Calibration relative response factors outside of criteria
- B - Method blank contamination
- L - Laboratory control sample recoveries outside of criteria
- Q - Matrix spike recoveries outside of criteria
- E - Laboratory control sample and or matrix spike relative percent differences outside of criteria
- I - Internal standards outside of criteria
- A - Serial dilution results outside of criteria
- F - Field blank contamination
- Z - Analytes reported below the reporting limits and above the method detection limit
- FD - Field duplicate relative percent difference outside of criteria
- \*# - Unusual problems found with the quality control data. See validation reports in Appendix C for detail

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

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
1,4-Dioxane	1,4-Dioxane	123-91-1	0 / 5	-	-	4.7 - 5.4	9.3 - 11	μg/kg		-
Alcohols	2-Propanol	67-63-0	0 / 31	-	-	260 - 290	530 - 590	μg/kg		-
Alcohols	Ethanol	64-17-5	0 / 31	-	-	260 - 290	530 - 590	μg/kg		-
Alcohols	Methanol	67-56-1	0 / 31	-	-	260 - 290	530 - 590	μg/kg		-
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	70 / 170	1.41 J Z	2720 J *#	0.00644 - 0.332	4.97 - 6.04	ng/kg	5C_DG-596	2 - 3
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	61 / 170	0.268 J Z	81	0.00382 - 0.146	4.97 - 6.04	ng/kg	5C_DG-516	4 - 5
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	36 / 170	0.0186 J Z	8.46	0.00644 - 0.177	4.97 - 6.04	ng/kg	5C_DG-516	4 - 5
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	56 / 170	0.0288 J Z	9.33	0.0119 - 0.234	4.97 - 6.04	ng/kg	5C_DG-596	2 - 3
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	34 / 170	0.142 J Z	3.23 J Z	0.006 - 0.152	4.97 - 6.04	ng/kg	5C_DG-596	2 - 3
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	90 / 170	0.0237 J Z	58.1	0.012 - 0.245	4.97 - 6.04	ng/kg	5C_DG-596	2 - 3
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	48 / 170	0.0347 J Z	6.86	0.00497 - 0.138	4.97 - 6.04	ng/kg	5C_DG-722	6 - 7
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	78 / 170	0.0534 J Z	34.7	0.0114 - 0.228	4.97 - 6.04	ng/kg	5C_DG-596	2 - 3
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	44 / 170	0.0552 J Z	1.26 J Z	0.00577 - 0.162	4.97 - 6.04	ng/kg	5C_DG-596	3 - 4
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	48 / 170	0.0729 J Z	1.97 J Z	0.00733 - 0.209	4.97 - 6.04	ng/kg	5C_DG-579	4 - 5
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	64 / 170	0.019 J Z	5.35 J Z	0.0125 - 0.296	4.97 - 6.04	ng/kg	5C_DG-596	2 - 3
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	32 / 170	0.0342 J Z	5.01 J Z	0.00542 - 0.137	4.97 - 6.04	ng/kg	5C_DG-516	4 - 5
Dioxins	2,3,4,7,8-PECDF	57117-31-4	17 / 170	0.232 J Z	2.76 J Z	0.00792 - 0.208	4.97 - 6.04	ng/kg	5C_DG-596	2 - 3
Dioxins	2,3,7,8-TCDD	1746-01-6	51 / 170	0.015 J Z	1.02 J Z	0.00711 - 0.612	0.994 - 1.21	ng/kg	5C_DG-747	2.5 - 3.5
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	72 / 170	0.0117 J Z	0.648 J Z	0.00644 - 0.381	0.994 - 1.21	ng/kg	5C_DG-596	2 - 3
Dioxins	OCDD	3268-87-9	114 / 170	2.1 J FD, Z	16900 J *#	0.0138 - 0.427	9.94 - 12.1	ng/kg	5C_DG-596	2 - 3
Dioxins	OCDF	39001-02-0	73 / 170	0.0786 J Z	175	0.0119 - 0.167	9.94 - 12.1	ng/kg	5C_DG-516	4 - 5
Formaldehyde	Formaldehyde	50-00-0	5 / 20	1600 J Z	13000	660 - 1400	1700 - 3500	μg/kg	5C_DG-731	4 - 5
Glycols	Diethylene Glycol	111-46-6	0 / 31	-	-	7.9 - 8.8	16 - 18	mg/kg		-
Glycols	Ethylene Glycol	107-21-1	0 / 31	-	-	5.3 - 5.9	11 - 12	mg/kg		-
Glycols	Propylene Glycol	57-55-6	0 / 31	-	-	5.3 - 5.9	11 - 12	mg/kg		-
Herbicides	2,2-Dichlor-Propionic Acid	75-99-0	0 / 2	-	-	5.5 - 5.8	11 - 12	μg/kg		-
Herbicides	2,4,5-T	93-76-5	0 / 2	-	-	5.5 - 5.8	11 - 12	μg/kg		-
Herbicides	2,4-D	94-75-7	0 / 2	-	-	5.5 - 5.8	11 - 12	μg/kg		-
Herbicides	2,4-DB	94-82-6	0 / 2	-	-	5.5 - 5.8	11 - 12	μg/kg		-
Herbicides	Dicamba	1918-00-9	0 / 2	-	-	5.5 - 5.8	11 - 12	μg/kg		-
Herbicides	Dichlorprop	120-36-5	0 / 2	-	-	5.5 - 5.8	11 - 12	μg/kg		-
Herbicides	Dinitrobutyl Phenol	88-85-7	0 / 2	-	-	5.5 - 5.8	11 - 12	μg/kg		-
Herbicides	MCPA	94-74-6	0 / 2	-	-	1100 - 1200	2200 - 2300	μg/kg		-
Herbicides	MCPP	93-65-2	0 / 2	-	-	1100 - 1200	2200 - 2300	μg/kg		-
Herbicides	Silvex (2,4,5-TP)	93-72-1	0 / 2	-	-	5.5 - 5.8	11 - 12	μg/kg		-
Hexavalent Chromium	Hexavalent Chromium	18540-29-9	0 / 44	-	-	0.53 - 0.602	1.06 - 1.2	mg/kg		-
Mercury	Mercury	7439-97-6	3 / 210	0.0584 J Z	0.573	0.0512 - 0.0614	0.102 - 0.123	mg/kg	5C_DG-525	9 - 10
Metals	Aluminum	7429-90-5	210 / 210	5480	28500	12 - 14.5	99.7 - 121	mg/kg	5C_DG-672	4 - 5
Metals	Antimony	7440-36-0	209 / 210	0.107 J Z	1.78	0.0997 - 0.121	0.498 - 0.606	mg/kg	5C_DG-670	4 - 5
Metals	Arsenic	7440-38-2	210 / 210	2.16	34.1	0.199 - 0.242	0.498 - 0.606	mg/kg	5C_DG-670	4 - 5
Metals	Barium	7440-39-3	210 / 210	33.9	241	0.199 - 0.242	0.498 - 0.606	mg/kg	5C_DG-571	4 - 5
Metals	Beryllium	7440-41-7	210 / 210	0.212 J Z	1.58	0.0498 - 0.277	0.498 - 2.77	mg/kg	5C_DG-672	4 - 5
Metals	Boron	7440-42-8	28 / 210	2.79 J Z	15.7	2.49 - 13.8	4.98 - 27.7	mg/kg	5C_DG-678	2.5 - 3.5
Metals	Cadmium	7440-43-9	210 / 210	0.0697 J Z	0.626	0.0498 - 0.0606	0.498 - 0.606	mg/kg	5C_DG-533	9 - 10
Metals	Calcium	7440-70-2	210 / 210	748	105000	9.97 - 12.1	19.9 - 24.2	mg/kg	5C_DG-580	4 - 5
Metals	Chromium	7440-47-3	210 / 210	7.86	44.5	0.199 - 0.242	0.498 - 0.606	mg/kg	5C_DG-672	4 - 5
Metals	Cobalt	7440-48-4	210 / 210	1.91	17.1	0.0498 - 0.0606	0.498 - 0.606	mg/kg	5C_DG-515	4 - 5
Metals	Copper	7440-50-8	210 / 210	2.85	28.9	0.199 - 0.242	0.498 - 0.606	mg/kg	5C_DG-755	4 - 5
Metals	Iron	7439-89-6	210 / 210	10200 J A	40700	9.97 - 12.1	99.7 - 121	mg/kg	5C_DG-755	5.5 - 6.5
Metals	Lead	7439-92-1	210 / 210	2.52	23 J FD	0.0997 - 0.121	0.498 - 0.606	mg/kg	5C_DG-509	4 - 5

**Table 3-2**  
**Summary of Analytical Results for Chemicals - Validated Data**  
**Subsurface Soils - HSA - 5C - Phase 3**

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Metals	Lithium	7439-93-2	210 / 210	6.59	60.4	0.997 - 5.54	1.99 - 11.1	mg/kg	5C_DG-755	5.5 - 6.5
Metals	Magnesium	7439-95-4	210 / 210	2040	10500	4.98 - 6.06	9.97 - 12.1	mg/kg	5C_DG-555	2.5 - 3.5
Metals	Manganese	7439-96-5	210 / 210	66.9	1050	0.249 - 1.44	0.498 - 2.89	mg/kg	5C_DG-533	9 - 10
Metals	Molybdenum	7439-98-7	210 / 210	0.105 J Z	3.31	0.0498 - 0.0606	0.498 - 0.606	mg/kg	5C_DG-571	4 - 5
Metals	Nickel	7440-02-0	210 / 210	3.6	33.8	0.199 - 0.242	0.498 - 0.606	mg/kg	5C_DG-533	9 - 10
Metals	Phosphorus	7723-14-0	210 / 210	52.7 J Q	827	5.98 - 7.27	12 - 14.5	mg/kg	5C_DG-543	3.5 - 4.5
Metals	Potassium	7440-09-07	210 / 210	1050	4090	29.9 - 36.4	99.7 - 121	mg/kg	5C_DG-583	4 - 5
Metals	Selenium	7782-49-2	4 / 210	0.262 J Z	0.681	0.199 - 0.242	0.498 - 0.606	mg/kg	5C_DG-718	4 - 5
Metals	Silver	7440-22-4	73 / 210	0.0541 J Z	1.21	0.0498 - 0.0606	0.498 - 0.606	mg/kg	5C_DG-512	6 - 7
Metals	Sodium	7440-23-5	210 / 210	73.1 J Z	1480	49.8 - 60.6	99.7 - 121	mg/kg	5C_DG-672	4 - 5
Metals	Strontium	7440-24-6	210 / 210	8.18	151	0.249 - 0.303	0.498 - 0.606	mg/kg	5C_DG-521	4 - 5
Metals	Thallium	7440-28-0	210 / 210	0.0843 J Z	0.736	0.0498 - 0.0606	0.399 - 0.485	mg/kg	5C_DG-670	4 - 5
Metals	Tin	7440-31-5	1 / 210	6.38 J Z	6.38 J Z	4.98 - 6.06	9.97 - 12.1	mg/kg	5C_DG-755	4 - 5
Metals	Titanium	7440-32-6	210 / 210	371	1350	0.498 - 0.606	0.997 - 1.21	mg/kg	5C_DG-681	7.5 - 8.5
Metals	Vanadium	7440-62-2	210 / 210	18.8	59.6	0.0498 - 0.0606	0.498 - 0.606	mg/kg	5C_DG-755	5.5 - 6.5
Metals	Zinc	7440-66-6	210 / 210	24.4	532	1.5 - 1.82	4.98 - 6.06	mg/kg	5C_DG-755	4 - 5
Metals	Zirconium	7440-67-7	21 / 210	2.73 J Z	3.93 J Z	2.49 - 3.03	4.98 - 6.06	mg/kg	5C_DG-586	9 - 10
PAHs	1,1'-Biphenyl	92-52-4	0 / 206	-	-	2.5 - 9	5.1 - 18	µg/kg		-
PAHs	1-Methylnaphthalene	90-12-0	0 / 206	-	-	2.5 - 9	10 - 36	µg/kg		-
PAHs	2-Methylnaphthalene	91-57-6	1 / 206	9.6 J Z	9.6 J Z	2.5 - 9	10 - 36	µg/kg	5C_DG-583	4 - 5
PAHs	Acenaphthene	83-32-9	0 / 206	-	-	2.5 - 9	10 - 36	µg/kg		-
PAHs	Acenaphthylene	208-96-8	0 / 206	-	-	2.5 - 9	10 - 36	µg/kg		-
PAHs	Anthracene	120-12-7	1 / 206	4.2 J S, Z	4.2 J S, Z	2.5 - 9	10 - 36	µg/kg	5C_DG-604	4 - 5
PAHs	Azobenzene	103-33-3	0 / 206	-	-	2.5 - 9	5.1 - 18	µg/kg		-
PAHs	Benzo(a)anthracene	56-55-3	22 / 206	3 J Z	21 J S J Z	2.5 - 9	10 - 36	µg/kg	5C_DG-604 5C_DG-518	4 - 5 4 - 5
PAHs	Benzo(a)pyrene	50-32-8	9 / 206	2.8 J Z	44	2.5 - 9	10 - 36	µg/kg	5C_DG-566	9 - 10
PAHs	Benzo(b)fluoranthene	205-99-2	15 / 206	3 J Z	59	2.5 - 9	10 - 36	µg/kg	5C_DG-566	9 - 10
PAHs	Benzo(e)pyrene	192-97-2	26 / 206	2.8 J Z	47	2.5 - 9	5.1 - 18	µg/kg	5C_DG-566	9 - 10
PAHs	Benzo(g,h,i)perylene	191-24-2	12 / 206	3 J Z	20 J Z	2.5 - 9	10 - 36	µg/kg	5C_DG-566	9 - 10
PAHs	Benzo(k)fluoranthene	207-08-9	7 / 206	4.2 J FD, Z	31 J Z	2.5 - 9	10 - 36	µg/kg	5C_DG-566	9 - 10
PAHs	Chrysene	218-01-9	9 / 206	3 J Z	38	2.5 - 9	10 - 36	µg/kg	5C_DG-566	9 - 10
PAHs	Dibenzo(a,h)anthracene	53-70-3	1 / 206	2.7 J S, Z	2.7 J S, Z	2.5 - 9	10 - 36	µg/kg	5C_DG-604	4 - 5
PAHs	Fluoranthene	206-44-0	10 / 206	4.4 J S, Z	58	2.5 - 9	10 - 36	µg/kg	5C_DG-566	9 - 10
PAHs	Fluorene	86-73-7	0 / 206	-	-	2.5 - 9	10 - 36	µg/kg		-
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	4 / 206	4.5 J FD, Z	13 J Z	2.5 - 9	10 - 36	µg/kg	5C_DG-566	9 - 10
PAHs	Naphthalene	91-20-3	0 / 206	-	-	2.5 - 9	10 - 36	µg/kg		-
PAHs	N-Nitrosodimethylamine	62-75-9	0 / 206	-	-	2.5 - 9	10 - 36	µg/kg		-
PAHs	Phenanthrene	85-01-8	12 / 206	3.5 J FD, Z	38	2.5 - 9	10 - 36	µg/kg	5C_DG-566	9 - 10
PAHs	Pyrene	129-00-0	14 / 206	2.8 J Z	61	2.5 - 9	10 - 36	µg/kg	5C_DG-566	9 - 10
PCBsPCTs	Aroclor 1016	12674-11-2	0 / 226	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 1221	11104-28-2	0 / 226	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 1232	11141-16-5	0 / 226	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 1242	53469-21-9	0 / 226	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 1248	12672-29-6	0 / 226	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 1254	11097-69-1	1 / 226	40	40	10 - 12	21 - 24	µg/kg	5C_DG-579	4 - 5
PCBsPCTs	Aroclor 1260	11096-82-5	4 / 226	17 J Z	82	10 - 12	21 - 24	µg/kg	5C_DG-644	2 - 3
PCBsPCTs	Aroclor 1262	37324-23-5	0 / 226	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 1268	11100-14-4	0 / 226	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 5432	63496-31-1	0 / 226	-	-	21 - 24	41 - 49	µg/kg		-
PCBsPCTs	Aroclor 5442	12642-23-8	0 / 226	-	-	21 - 24	41 - 49	µg/kg		-

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

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
PCBsPCTs	Aroclor 5460	11126-42-4	0 / 226	-	-	21 - 24	41 - 49	µg/kg		-
Perchlorate	Perchlorate	14797-73-0	0 / 76	-	-	2.6 - 10.5	5.2 - 20.9	µg/kg		-
Pesticides	4,4'-DDD	72-54-8	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	4,4'-DDE	72-55-9	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	4,4'-DDT	50-29-3	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Aldrin	309-00-2	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Alpha-Bhc	319-84-6	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Beta-Bhc	319-85-7	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Chlordane (Technical)	12789-03-6	0 / 4	-	-	5.5 - 5.8	11 - 12	µg/kg		-
Pesticides	Delta-Bhc	319-86-8	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Dieldrin	60-57-1	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Endosulfan I	959-98-8	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Endosulfan II	33213-65-9	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Endosulfan Sulfate	1031-07-8	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Endrin	72-20-8	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Endrin Aldehyde	7421-93-4	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Endrin Ketone	53494-70-5	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Gamma-Bhc (Lindane)	58-89-9	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Heptachlor	76-44-8	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Heptachlor Epoxide	1024-57-3	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Methoxychlor	72-43-5	0 / 4	-	-	2.2 - 2.3	5.5 - 5.8	µg/kg		-
Pesticides	Mirex	2385-85-5	0 / 4	-	-	0.44 - 0.46	2.2 - 2.3	µg/kg		-
Pesticides	Technical Toxaphene	8001-35-2	0 / 4	-	-	11 - 12	55 - 58	µg/kg		-
pH	pH	pH	204 / 204	5.42	9.41	0.1 - 0.1	0.1 - 1	pH	5C_DG-689	7.5 - 8.5
TPH-EFH	EFH (C12-C14)	PHCC12C14	0 / 172	-	-	2.5 - 15	5.1 - 29	mg/kg		-
TPH-EFH	EFH (C15-C20)	PHCC15C20	1 / 172	11	11	2.5 - 15	5.1 - 29	mg/kg	5C_DG-697	4 - 5
TPH-EFH	EFH (C21-C30)	PHCC21C30	57 / 172	3 J FD, Z J Z	160	2.5 - 15	5.1 - 29	mg/kg	5C_DG-727	9 - 10
TPH-EFH	EFH (C30-C40)	PHCC30C40	47 / 172	5.6 J Z	190	5.1 - 29	10 - 58	mg/kg	5C_DG-704	4 - 5
TPH-EFH	EFH (C8-C11)	PHCC8C11	5 / 172	1.3 J FD, Z	3.2 J Z	2.5 - 15	5.1 - 29	mg/kg	5C_DG-715	6 - 7
TPH-GRO	Gasoline Range Organics (C5-C12)	GROC5C12	0 / 174	-	-	0.42 - 0.8	0.83 - 1.6	mg/kg		-
VOC	1,1,1,2-Tetrachloroethane	630-20-6	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,1,1-Trichloroethane	71-55-6	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,1,2,2-Tetrachloroethane	79-34-5	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	1,1,2-Trichloroethane	79-00-5	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,1-Dichloroethane	75-34-3	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,1-Dichloroethene	75-35-4	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,1-Dichloropropene	563-58-6	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,2,3-Trichlorobenzene	87-61-6	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	1,2,3-Trichloropropane	96-18-4	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	1,2,4-Trichlorobenzene	120-82-1	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	1,2,4-Trimethylbenzene	95-63-6	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,2-Dibromo-3-chloropropane	96-12-8	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	1,2-Dibromoethane	106-93-4	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,2-Dichlorobenzene	95-50-1	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,2-Dichloroethane	107-06-2	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,2-Dichloropropane	78-87-5	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,3,5-Trimethylbenzene	108-67-8	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,3-Dichlorobenzene	541-73-1	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,3-Dichloropropane	142-28-9	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-

**Table 3-2**  
**Summary of Analytical Results for Chemicals - Validated Data**  
**Subsurface Soils - HSA - 5C - Phase 3**

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
VOC	1,4-Dichlorobenzene	106-46-7	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1-Chlorohexane	544-10-5	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	2,2-Dichloropropane	594-20-7	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	2-Butanone (MEK)	78-93-3	0 / 5	-	-	4.5 - 5.5	9.1 - 11	µg/kg		-
VOC	2-Chloro-1,1,1-trifluoroethane	75-88-7	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	2-Chloroethyl Vinyl Ether	110-75-8	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	2-Chlorotoluene	95-49-8	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	2-Hexanone	591-78-6	0 / 5	-	-	4.5 - 5.5	9.1 - 11	µg/kg		-
VOC	2-Phenylbutane	135-98-8	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	4-Chlorotoluene	106-43-4	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	4-Methyl-2-pentanone (MIBK)	108-10-1	0 / 5	-	-	4.5 - 5.5	9.1 - 11	µg/kg		-
VOC	Acetone	67-64-1	3 / 5	7.9 J Z	19	4.5 - 5.5	9.1 - 11	µg/kg	5C_DG-628	10.5 - 10.5
VOC	Acrolein	107-02-8	0 / 5	-	-	4.5 - 5.5	9.1 - 11	µg/kg		-
VOC	Acrylonitrile	107-13-1	0 / 5	-	-	4.5 - 5.5	9.1 - 11	µg/kg		-
VOC	Benzene	71-43-2	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Bromobenzene	108-86-1	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Bromochloromethane	74-97-5	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Bromodichloromethane	75-27-4	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Bromoform	75-25-2	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Bromomethane	74-83-9	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Carbon Disulfide	75-15-0	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Carbon Tetrachloride	56-23-5	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Chlorobenzene	108-90-7	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Chloroethane	75-00-3	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Chloroform	67-66-3	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Chloromethane	74-87-3	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Chlorotrifluoroethylene	79-38-9	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	cis-1,2-Dichloroethene	156-59-2	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	cis-1,3-Dichloropropene	10061-01-5	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Cymene	99-87-6	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Di isopropyl Ether	108-20-3	0 / 5	-	-	4.5 - 5.5	9.1 - 11	µg/kg		-
VOC	Dibromochloromethane	124-48-1	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Dibromomethane	74-95-3	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Dichlorodifluoromethane	75-71-8	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Ethylbenzene	100-41-4	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Hexachloro-1,3-butadiene	87-68-3	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Isopropylbenzene	98-82-8	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	m,p-Xylene	179601-23-1	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Methyl Iodide	74-88-4	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Methyl Tert-Butyl Ether	1634-04-4	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Methylene Chloride	75-09-2	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	n-Butylbenzene	104-51-8	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	n-Propylbenzene	103-65-1	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	o-Xylene	95-47-6	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Styrene	100-42-5	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	tert-Butyl ethyl ether	637-92-3	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	tert-Butylbenzene	98-06-6	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Tertiary amyl methyl ether	994-05-8	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Tertiary butyl alcohol	75-65-0	0 / 5	-	-	9.1 - 11	18 - 22	µg/kg		-
VOC	Tetrachloroethene	127-18-4	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Toluene	108-88-3	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-

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

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
VOC	trans-1,2-Dichloroethene	156-60-5	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	trans-1,3-Dichloropropene	10061-02-6	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Trichloroethene	79-01-6	0 / 5	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Trichlorofluoromethane	75-69-4	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Vinyl Acetate	108-05-4	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Vinyl Chloride	75-01-4	0 / 5	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-

ug/kg- microgram per kilogram

mg/kg - milligram per kilogram

ng/kg - nanogram per kilogram

J - Result is an estimated value

H - Holding times exceeded

S - Surrogates outside of criteria

C - Calibration recoveries outside of criteria

R - Calibration relative response factors outside of criteria

B - Method blank contamination

L - Laboratory control sample recoveries outside of criteria

Q - Matrix spike recoveries outside of criteria

E - Laboratory control sample and or matrix spike relative percent differences outside of criteria

I - Internal standards outside of criteria

A - Serial dilution results outside of criteria

F - Field blank contamination

Z - Analytes reported below the reporting limits and above the method detection limit

FD - Field duplicate relative percent difference outside of criteria

\*# - Unusual problems found with the quality control data. See validation reports in Appendix C for detail.

Table 3-3  
Summary of Analytical Results for Chemicals - Validated Data  
Combined Soils - HSA - 5C - Phase 3

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
1,4-Dioxane	1,4-Dioxane	123-91-1	0 / 6	-	-	4.7 - 5.4	9.3 - 11	µg/kg	-	-
Alcohols	2-Propanol	67-63-0	0 / 57	-	-	260 - 290	520 - 590	µg/kg	-	-
Alcohols	Ethanol	64-17-5	0 / 57	-	-	260 - 290	520 - 590	µg/kg	-	-
Alcohols	Methanol	67-56-1	0 / 57	-	-	260 - 290	520 - 590	µg/kg	-	-
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	169 / 285	1.41 J Z	16800 J *#	0.00644 - 0.44	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	155 / 285	0.268 J Z	1350	0.00382 - 0.283	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	100 / 285	0.0186 J Z	126	0.00644 - 0.194	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	131 / 285	0.0288 J Z	113	0.0119 - 0.317	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	106 / 285	0.142 J Z	38.3	0.006 - 0.208	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	188 / 285	0.0237 J Z	663	0.012 - 0.285	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	124 / 285	0.0273 J Z	33.5	0.00497 - 0.185	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	174 / 285	0.0534 J Z	255	0.0114 - 0.293	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	130 / 285	0.0552 J Z	5.01 J Z	0.00577 - 0.174	4.95 - 6.09	ng/kg	5C_DG-747	0 - 0.5
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	131 / 285	0.0729 J Z	45.9	0.00733 - 0.209	4.95 - 6.09	ng/kg	5C_DG-577	0 - 0.5
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	143 / 285	0.019 J Z	49.6	0.0122 - 0.296	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	102 / 285	0.0342 J Z	71.6	0.00542 - 0.174	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	2,3,4,7,8-PECDF	57117-31-4	72 / 285	0.219 J Z	11.4	0.00742 - 0.208	4.95 - 6.09	ng/kg	5C_DG-516	0 - 0.5
Dioxins	2,3,7,8-TCDD	1746-01-6	97 / 285	0.015 J Z	7.68	0.00711 - 0.612	0.989 - 1.22	ng/kg	5C_DG-516	0 - 0.5
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	149 / 285	0.0117 J Z	2.34	0.00644 - 0.381	0.989 - 1.22	ng/kg	5C_DG-516	0 - 0.5
Dioxins	OCDD	3268-87-9	226 / 285	2.1 J FD, Z	105000 J *#	0.0138 - 1.12	9.89 - 115	ng/kg	5C_DG-516	0 - 0.5
Dioxins	OCDF	39001-02-0	169 / 285	0.0786 J Z	2380	0.0119 - 0.167	9.89 - 12.2	ng/kg	5C_DG-516	0 - 0.5
Formaldehyde	Formaldehyde	50-00-0	6 / 33	1600 J Z	13000	630 - 1400	1600 - 3500	µg/kg	5C_DG-731	4 - 5
Glycols	Diethylene Glycol	111-46-6	0 / 57	-	-	7.7 - 8.8	15 - 18	mg/kg	-	-
Glycols	Ethylene Glycol	107-21-1	0 / 57	-	-	5.2 - 5.9	10 - 12	mg/kg	-	-
Glycols	Propylene Glycol	57-55-6	0 / 57	-	-	5.2 - 5.9	10 - 12	mg/kg	-	-
Herbicides	2,2-Dichlor-Propionic Acid	75-99-0	0 / 3	-	-	5.5 - 5.8	11 - 12	µg/kg	-	-
Herbicides	2,4,5-T	93-76-5	0 / 3	-	-	5.5 - 5.8	11 - 12	µg/kg	-	-
Herbicides	2,4-D	94-75-7	0 / 3	-	-	5.5 - 5.8	11 - 12	µg/kg	-	-
Herbicides	2,4-DB	94-82-6	0 / 3	-	-	5.5 - 5.8	11 - 12	µg/kg	-	-
Herbicides	Dicamba	1918-00-9	0 / 3	-	-	5.5 - 5.8	11 - 12	µg/kg	-	-
Herbicides	Dichlorprop	120-36-5	0 / 3	-	-	5.5 - 5.8	11 - 12	µg/kg	-	-
Herbicides	Dinitrobutyl Phenol	88-85-7	0 / 3	-	-	5.5 - 5.8	11 - 12	µg/kg	-	-
Herbicides	MCPA	94-74-6	0 / 3	-	-	1100 - 1200	2200 - 2300	µg/kg	-	-
Herbicides	MCPP	93-65-2	0 / 3	-	-	1100 - 1200	2200 - 2300	µg/kg	-	-
Herbicides	Silvex (2,4,5-TP)	93-72-1	0 / 3	-	-	5.5 - 5.8	11 - 12	µg/kg	-	-
Hexavalent Chromium	Hexavalent Chromium	18540-29-9	1 / 66	6.69	6.69	0.509 - 0.602	1.02 - 1.2	mg/kg	5C_DG-542	0 - 0.5
Mercury	Mercury	7439-97-6	23 / 351	0.0584 J Z	5.34	0.0501 - 0.534	0.1 - 1.07	mg/kg	5C_DG-524	0 - 0.5
Metals	Aluminum	7429-90-5	350 / 350	4220 J Q	31200	12 - 14.5	99.7 - 121	mg/kg	5C_DG-677	0 - 0.5
Metals	Antimony	7440-36-0	349 / 350	0.107 J Z	14.5 J Q	0.0997 - 0.121	0.498 - 0.606	mg/kg	5C_DG-542	0 - 0.5
Metals	Arsenic	7440-38-2	350 / 350	1.92	34.1	0.199 - 0.242	0.498 - 0.606	mg/kg	5C_DG-670	4 - 5
Metals	Barium	7440-39-3	350 / 350	23.4	456 J Q	0.199 - 0.242	0.498 - 0.606	mg/kg	5C_DG-542	0 - 0.5
Metals	Beryllium	7440-41-7	350 / 350	0.114 J Z	1.58	0.0498 - 0.277	0.498 - 2.77	mg/kg	5C_DG-672	4 - 5
Metals	Boron	7440-42-8	86 / 350	2.74 J Z	22.1	2.49 - 13.8	4.98 - 27.7	mg/kg	5C_DG-678	0 - 0.5
Metals	Cadmium	7440-43-9	350 / 350	0.0697 J Z	2.94	0.0498 - 0.0606	0.498 - 0.606	mg/kg	5C_DG-532	0 - 0.5
Metals	Calcium	7440-70-2	350 / 350	748	105000	9.97 - 12.1	19.9 - 24.2	mg/kg	5C_DG-580	4 - 5
Metals	Chromium	7440-47-3	350 / 350	7.86	128 J Q	0.199 - 0.242	0.498 - 0.606	mg/kg	5C_DG-615	0 - 0.5
Metals	Cobalt	7440-48-4	350 / 350	1.91	17.1	0.0498 - 0.0606	0.498 - 0.606	mg/kg	5C_DG-515	4 - 5
Metals	Copper	7440-50-8	350 / 350	2.85	146	0.199 - 0.242	0.498 - 0.606	mg/kg	5C_DG-691	0 - 0.5
Metals	Iron	7439-89-6	350 / 350	6100 J Q	40700	9.97 - 12.1	99.7 - 121	mg/kg	5C_DG-755	5.5 - 6.5
Metals	Lead	7439-92-1	350 / 350	1.35	649	0.0997 - 0.121	0.498 - 0.606	mg/kg	5C_DG-671	0 - 0.5
Metals	Lithium	7439-93-2	350 / 350	2.39	60.4	0.997 - 5.54	1.99 - 11.1	mg/kg	5C_DG-755	5.5 - 6.5

**Table 3-3**  
**Summary of Analytical Results for Chemicals - Validated Data**  
**Combined Soils -HSA - 5C - Phase 3**

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Metals	Magnesium	7439-95-4	350 / 350	1190	10500	4.98 - 6.06	9.97 - 12.1	mg/kg	5C_DG-555	2.5 - 3.5
Metals	Manganese	7439-96-5	350 / 350	66.9	1050	0.249 - 1.44	0.498 - 2.89	mg/kg	5C_DG-533	9 - 10
Metals	Molybdenum	7439-98-7	350 / 350	0.105 J Z	8.51	0.0498 - 0.0606	0.498 - 0.606	mg/kg	5C_DG-621	0 - 0.5
Metals	Nickel	7440-02-0	350 / 350	3.6	72.8 J Q	0.199 - 0.242	0.498 - 0.606	mg/kg	5C_DG-615	0 - 0.5
Metals	Phosphorus	7723-14-0	350 / 350	52.7 J Q	827	5.98 - 7.27	12 - 14.5	mg/kg	5C_DG-543	3.5 - 4.5
Metals	Potassium	7440-09-07	350 / 350	555	4890	29.9 - 36.4	99.7 - 121	mg/kg	5C_DG-692	0 - 0.5
Metals	Selenium	7782-49-2	12 / 350	0.253 J Z	0.681	0.199 - 0.242	0.498 - 0.606	mg/kg	5C_DG-718	4 - 5
Metals	Silver	7440-22-4	112 / 350	0.0541 J Z	1.8	0.0498 - 0.0606	0.498 - 0.606	mg/kg	5C_DG-501	0 - 0.5
Metals	Sodium	7440-23-5	348 / 350	63.4 J Z	1480	49.8 - 60.6	99.7 - 121	mg/kg	5C_DG-672	4 - 5
Metals	Strontium	7440-24-6	350 / 350	8.18	151	0.249 - 0.303	0.498 - 0.606	mg/kg	5C_DG-521	4 - 5
Metals	Thallium	7440-28-0	348 / 350	0.0843 J Z	0.736	0.0498 - 0.0606	0.399 - 0.485	mg/kg	5C_DG-670	4 - 5
Metals	Tin	7440-31-5	4 / 350	6.37 J Z	11.5	4.98 - 6.06	9.97 - 12.1	mg/kg	5C_DG-691	0 - 0.5
Metals	Titanium	7440-32-6	350 / 350	217	1360	0.498 - 0.606	0.997 - 1.21	mg/kg	5C_DG-750	0 - 0.5
Metals	Vanadium	7440-62-2	350 / 350	13.8	59.6	0.0498 - 0.0606	0.498 - 0.606	mg/kg	5C_DG-755	5.5 - 6.5
Metals	Zinc	7440-66-6	350 / 350	13.1	3160	1.5 - 7.96	4.98 - 26.5	mg/kg	5C_DG-755	0 - 0.5
Metals	Zirconium	7440-67-7	25 / 350	2.72 J Z	4.81 J Q, Z	2.49 - 3.03	4.98 - 6.06	mg/kg	5C_DG-608	0 - 0.5
PAHs	1,1'-Biphenyl	92-52-4	0 / 344	-	-	2.5 - 55	5.1 - 110	µg/kg		-
PAHs	1-Methylnaphthalene	90-12-0	1 / 344	24 J Z	24 J Z	2.5 - 55	10 - 220	µg/kg	5C_DG-583	0 - 0.5
PAHs	2-Methylnaphthalene	91-57-6	2 / 344	9.6 J Z	31 J Z	2.5 - 55	10 - 220	µg/kg	5C_DG-583	0 - 0.5
PAHs	Acenaphthene	83-32-9	7 / 344	3.3 J S, Z	51	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Acenaphthylene	208-96-8	1 / 344	8.1 J Z	8.1 J Z	2.5 - 55	10 - 220	µg/kg	5C_DG-516	0 - 0.5
PAHs	Anthracene	120-12-7	12 / 344	4.2 J S, Z	92	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Azobenzene	103-33-3	0 / 344	-	-	2.5 - 55	5.1 - 110	µg/kg		-
PAHs	Benzo(a)anthracene	56-55-3	65 / 344	2.8 J Z	270	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Benzo(a)pyrene	50-32-8	57 / 344	2.8 J Z	310	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Benzo(b)fluoranthene	205-99-2	81 / 344	2.9 J Z	400	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Benzo(e)pyrene	192-97-2	104 / 344	2.8 J Z	190	2.5 - 55	5.1 - 110	µg/kg	5C_DG-517	0 - 0.5
PAHs	Benzo(g,h,i)perylene	191-24-2	73 / 344	2.8 J Z	190	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Benzo(k)fluoranthene	207-08-9	39 / 344	3.2 J Z	140	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Chrysene	218-01-9	52 / 344	2.8 J Z	330	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Dibenzo(a,h)anthracene	53-70-3	16 / 344	2.7 J S, Z	53	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Fluoranthene	206-44-0	68 / 344	2.7 J Z	710	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Fluorene	86-73-7	6 / 344	5.7 J Z	35	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	31 / 344	2.9 J Z	160	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Naphthalene	91-20-3	1 / 344	6.6 J Z	6.6 J Z	2.5 - 55	10 - 220	µg/kg	5C_DG-542	0 - 0.5
PAHs	N-Nitrosodimethylamine	62-75-9	1 / 344	2.7 J Z	2.7 J Z	2.5 - 55	10 - 220	µg/kg	5C_DG-536	0 - 0.5
PAHs	Phenanthrene	85-01-8	45 / 344	2.9 J S, Z	460	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PAHs	Pyrene	129-00-0	69 / 344	2.8 J Z	670	2.5 - 55	10 - 220	µg/kg	5C_DG-517	0 - 0.5
PCBsPCTs	Aroclor 1016	12674-11-2	0 / 391	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 1221	11104-28-2	0 / 391	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 1232	11141-16-5	0 / 391	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 1242	53469-21-9	0 / 391	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 1248	12672-29-6	0 / 391	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 1254	11097-69-1	27 / 391	11 J Z	290	10 - 12	21 - 24	µg/kg	5C_DG-579	0 - 0.5
PCBsPCTs	Aroclor 1260	11096-82-5	21 / 391	14 J Z	1400	10 - 56	21 - 110	µg/kg	5C_DG-636	0 - 0.5
PCBsPCTs	Aroclor 1262	37324-23-5	0 / 391	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 1268	11100-14-4	0 / 391	-	-	10 - 12	21 - 24	µg/kg		-
PCBsPCTs	Aroclor 5432	63496-31-1	0 / 391	-	-	21 - 24	41 - 49	µg/kg		-
PCBsPCTs	Aroclor 5442	12642-23-8	0 / 391	-	-	21 - 24	41 - 49	µg/kg		-
PCBsPCTs	Aroclor 5460	11126-42-4	12 / 391	31 J Z	64	21 - 24	41 - 49	µg/kg	5C_DG-524 5C_DG-673	0 - 0.5 0 - 0.5

Table 3-3  
Summary of Analytical Results for Chemicals - Validated Data  
Combined Soils - HSA - 5C - Phase 3

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
Perchlorate	Perchlorate	14797-73-0	0 / 122	-	-	2.58 - 10.5	5.16 - 20.9	µg/kg		-
Pesticides	4,4'-DDD	72-54-8	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	4,4'-DDE	72-55-9	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	4,4'-DDT	50-29-3	1 / 8	1.9 J Z	1.9 J Z	0.42 - 0.46	2.1 - 2.3	µg/kg	5C_DG-615	0 - 0.5
Pesticides	Aldrin	309-00-2	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Alpha-Bhc	319-84-6	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Beta-Bhc	319-85-7	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Chlordane (Technical)	12789-03-6	0 / 8	-	-	5.3 - 5.8	11 - 12	µg/kg		-
Pesticides	Delta-Bhc	319-86-8	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Dieldrin	60-57-1	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Endosulfan I	959-98-8	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Endosulfan II	33213-65-9	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Endosulfan Sulfate	1031-07-8	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Endrin	72-20-8	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Endrin Aldehyde	7421-93-4	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Endrin Ketone	53494-70-5	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Gamma-Bhc (Lindane)	58-89-9	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Heptachlor	76-44-8	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Heptachlor Epoxide	1024-57-3	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Methoxychlor	72-43-5	0 / 8	-	-	2.1 - 2.3	5.3 - 5.8	µg/kg		-
Pesticides	Mirex	2385-85-5	0 / 8	-	-	0.42 - 0.46	2.1 - 2.3	µg/kg		-
Pesticides	Technical Toxaphene	8001-35-2	0 / 8	-	-	11 - 12	53 - 58	µg/kg		-
pH	pH	pH	344 / 344	5.42	9.93	0.1 - 0.1	0.1 - 1	pH	5C_DG-674	0 - 0.5
TPH-EFH	EFH (C12-C14)	PHCC12C14	0 / 290	-	-	2.5 - 29	5.1 - 58	mg/kg		-
TPH-EFH	EFH (C15-C20)	PHCC15C20	5 / 290	3.3 J Z	11	2.5 - 29	5.1 - 58	mg/kg	5C_DG-697	4 - 5
TPH-EFH	EFH (C21-C30)	PHCC21C30	148 / 290	2.9 J Z	250	2.5 - 29	5.1 - 58	mg/kg	5C_DG-581	0 - 0.5
TPH-EFH	EFH (C30-C40)	PHCC30C40	135 / 290	5.6 J Z	600	5.1 - 58	10 - 120	mg/kg	5C_DG-552	0 - 0.5
TPH-EFH	EFH (C8-C11)	PHCC8C11	5 / 290	1.3 J FD, Z	3.2 J Z	2.5 - 29	5.1 - 58	mg/kg	5C_DG-715	6 - 7
TPH-GRO	Gasoline Range Organics (C5-C12)	GROC5C12	0 / 175	-	-	0.42 - 0.8	0.83 - 1.6	mg/kg		-
VOC	1,1,1,2-Tetrachloroethane	630-20-6	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,1,1-Trichloroethane	71-55-6	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,1,2,2-Tetrachloroethane	79-34-5	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	1,1,2-Trichloroethane	79-00-5	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,1-Dichloroethane	75-34-3	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,1-Dichloroethene	75-35-4	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,1-Dichloropropene	563-58-6	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,2,3-Trichlorobenzene	87-61-6	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	1,2,3-Trichloropropane	96-18-4	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	1,2,4-Trichlorobenzene	120-82-1	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	1,2,4-Trimethylbenzene	95-63-6	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,2-Dibromo-3-chloropropane	96-12-8	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	1,2-Dibromoethane	106-93-4	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,2-Dichlorobenzene	95-50-1	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,2-Dichloroethane	107-06-2	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,2-Dichloropropane	78-87-5	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,3,5-Trimethylbenzene	108-67-8	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,3-Dichlorobenzene	541-73-1	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,3-Dichloropropane	142-28-9	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1,4-Dichlorobenzene	106-46-7	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	1-Chlorohexane	544-10-5	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-

**Table 3-3**  
**Summary of Analytical Results for Chemicals - Validated Data**  
**Combined Soils -HSA - 5C - Phase 3**

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
VOC	2,2-Dichloropropane	594-20-7	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	2-Butanone (MEK)	78-93-3	0 / 6	-	-	4.5 - 5.5	9.1 - 11	µg/kg		-
VOC	2-Chloro-1,1,1-trifluoroethane	75-88-7	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	2-Chloroethyl Vinyl Ether	110-75-8	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	2-Chlorotoluene	95-49-8	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	2-Hexanone	591-78-6	0 / 6	-	-	4.5 - 5.5	9.1 - 11	µg/kg		-
VOC	2-Phenylbutane	135-98-8	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	4-Chlorotoluene	106-43-4	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	4-Methyl-2-pentanone (MIBK)	108-10-1	0 / 6	-	-	4.5 - 5.5	9.1 - 11	µg/kg		-
VOC	Acetone	67-64-1	3 / 6	7.9 J Z	19	4.5 - 5.5	9.1 - 11	µg/kg	5C_DG-628	10.5 - 10.5
VOC	Acrolein	107-02-8	0 / 6	-	-	4.5 - 5.5	9.1 - 11	µg/kg		-
VOC	Acrylonitrile	107-13-1	0 / 6	-	-	4.5 - 5.5	9.1 - 11	µg/kg		-
VOC	Benzene	71-43-2	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Bromobenzene	108-86-1	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Bromochloromethane	74-97-5	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Bromodichloromethane	75-27-4	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Bromoform	75-25-2	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Bromomethane	74-83-9	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Carbon Disulfide	75-15-0	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Carbon Tetrachloride	56-23-5	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Chlorobenzene	108-90-7	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Chloroethane	75-00-3	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Chloroform	67-66-3	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Chloromethane	74-87-3	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Chlorotrifluoroethylene	79-38-9	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	cis-1,2-Dichloroethene	156-59-2	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	cis-1,3-Dichloropropene	10061-01-5	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Cymene	99-87-6	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Di isopropyl Ether	108-20-3	0 / 6	-	-	4.5 - 5.5	9.1 - 11	µg/kg		-
VOC	Dibromochloromethane	124-48-1	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Dibromomethane	74-95-3	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Dichlorodifluoromethane	75-71-8	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Ethylbenzene	100-41-4	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Hexachloro-1,3-butadiene	87-68-3	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Isopropylbenzene	98-82-8	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	m,p-Xylene	179601-23-1	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Methyl Iodide	74-88-4	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Methyl Tert-Butyl Ether	1634-04-4	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Methylene Chloride	75-09-2	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	n-Butylbenzene	104-51-8	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	n-Propylbenzene	103-65-1	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	o-Xylene	95-47-6	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Styrene	100-42-5	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	tert-Butyl ethyl ether	637-92-3	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	tert-Butylbenzene	98-06-6	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Tertiary amyl methyl ether	994-05-8	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Tertiary butyl alcohol	75-65-0	0 / 6	-	-	9.1 - 11	18 - 22	µg/kg		-
VOC	Tetrachloroethene	127-18-4	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Toluene	108-88-3	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	trans-1,2-Dichloroethene	156-60-5	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	trans-1,3-Dichloropropene	10061-02-6	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-

Table 3-3  
 Summary of Analytical Results for Chemicals - Validated Data  
 Combined Soils - HSA - 5C - Phase 3

Group	Chemical	CAS No	Detection Frequency	Minimum Concentration	Maximum Concentration	Range of Method Detection Limit	Range of Method Reporting Limit	Unit	Location of Maximum Concentration	Depth of Maximum Concentration
VOC	Trichloroethene	79-01-6	0 / 6	-	-	0.91 - 1.1	4.5 - 5.5	µg/kg		-
VOC	Trichlorofluoromethane	75-69-4	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Vinyl Acetate	108-05-4	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-
VOC	Vinyl Chloride	75-01-4	0 / 6	-	-	1.8 - 2.2	4.5 - 5.5	µg/kg		-

ug/kg- microgram per kilogram

mg/kg - milligram per kilogram

ng/kg - nanogram per kilogram

J - Result is an estimated value

H - Holding times exceeded

S - Surrogates outside of criteria

C - Calibration recoveries outside of criteria

R - Calibration relative response factors outside of criteria

B - Method blank contamination

L - Laboratory control sample recoveries outside of criteria

Q - Matrix spike recoveries outside of criteria

E - Laboratory control sample and or matrix spike relative percent differences outside of criteria

I - Internal standards outside of criteria

A - Serial dilution results outside of criteria

F - Field blank contamination

Z - Analytes reported below the reporting limits and above the method detection limit

FD - Field duplicate relative percent difference outside of criteria

\*# - Unusual problems found with the quality control data. See validation reports in Appendix C for detail

## Section 4

# Data Usability Assessment

The purposes of the DUAR provided in Appendix C and summarized here are to: (1) describe the data validation processes performed on the data sets and (2) determine whether the sample results meet the data quality objectives (DQOs) outlined in the Phase 3 Master FSP (CDM Smith 2012a) and QAPP (CDM Smith 2012c).

### 4.1 Usability Summary

For the Subarea 5C data usability assessment, 85 data sets, or SDGs were reviewed via one or more independent processes. A SDG consists of 20 or fewer samples grouped together by analytical method for analyses depending on when the samples were received by the laboratory. The analyses performed are discussed in Section 2.5.

Samples were collected and analyzed in accordance with the Master FSP (CDM Smith 2012a), and Addendum to the Master FSP for Subarea 5C with the exception of deviations during the field investigation as stated in Section 2.7.

The validated data for Subarea 5C samples are usable as reported. No sample results were rejected during validation. Specific details are provided in the validation reports in Appendix C and Section 4.7.

### 4.2 Data Validation Procedures

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

The data validation strategy followed planning documents with 10 percent of the data validated according to EPA Level IV protocols (all QC parameters and raw data) and the remaining 90 percent validated according to EPA Level III protocols (all QC parameters except calibrations and raw data).

Table 4-1 presents all of the Subarea 5C SDGs and their corresponding level of validation (Level III or Level IV) and confirmatory review (described below). Some SDGs contain samples from other subareas, but all samples in an SDG were validated together. An index of samples associated with each SDG is presented at the beginning of Appendix C.

**Table 4-1 Sample Delivery Groups and Validation Levels for Subarea 5C**

Sample Delivery Group	Level of Validation Performed	CDM Smith Review
12D121	Level III	
12D147	Level III	
12D155	Level IV	
12D165	Level III	
12D175	Level III	

**Table 4-1 Sample Delivery Groups and Validation Levels for Subarea 5C**

Sample Delivery Group	Level of Validation Performed	CDM Smith Review
12D191	Level III	
12D198	Level III	Yes
12D208	Level III	
12D231	Level III	
12D256	Level III	
12D275	Level III	
12E004	Level III	
12E018	Level III	
12E034	Level III	
12E049	Level III	
12E055	Level IV	
12E067	Level III	
12E082	Level III	
12E098	Level III	
12E108	Level III	
12E116	Level III	Yes
12E134	Level III	
12E155	Level III	
12E169	Level IV	
12E187	Level III	
12E204	Level III	
12E229	Level III	
12E244	Level IV	
12E267	Level IV	
12F020	Level III	
12F029	Level III	
12F037	Level IV	
12F044	Level III	Yes
12F051	Level III	
12F071	Level IV	
12F074	Level IV	
12F093	Level III	
12F102	Level III	
12F120	Level III	Yes
12F132	Level III	
12F146	Level III	
12F162	Level III	
12F182	Level III	
12F197	Level III	
12F215	Level III	
12F232	Level III	
12G030	Level III	
12G048	Level III	Yes
12G064	Level III	
12G199	Level III	
PH001	Level III	
PH002	Level III	
PH003	Level III	
PH004	Level III	
PH005	Level III	Yes
PH006	Level III	
PH007	Level III	
PH008	Level III	
PH009	Level III	
PH010	Level IV	Yes

**Table 4-1 Sample Delivery Groups and Validation Levels for Subarea 5C**

Sample Delivery Group	Level of Validation Performed	CDM Smith Review
PH011	Level III	
PH012	Level IV	
PH013	Level III	
PH014	Level III	
PH015	Level III	
PH016	Level III	
PH017	Level III	
PH018	Level III	
PH025	Level IV	
PH026	Level III	
PT001	Level III	
PT002	Level III	
PT003	Level III	
PT004	Level III	
PT005	Level III	
PT006	Level III	Yes
PT007	Level III	
PT008	Level III	
PT009	Level III	
PT010	Level III	
PT011	Level III	
PT012	Level III	
PT013	Level III	
PT014	Level III	
PT030	Level IV	Yes

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

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

### 4.3 Quality Assurance Objectives

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

A review of the collected data is necessary to determine whether or not DQOs established in the Master FSP (CDM Smith 2012a) have been met. The following data measurement tasks were evaluated:

- Specification and adherence to analytical method and reporting detection limit requirements
- Identification of the appropriate laboratory analytical QC requirements and verification that QC requirements were met
- Verification that measurement performance criteria (representativeness and completeness) for the data were met

- Verification that field procedures were followed, deviations were documented, and that a determination of impact on data quality as a result of these deviations were made

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

## 4.4 Summary of Field and Laboratory QA Activities

CDM Smith completed sampling activities in Subarea 5C in accordance with the approved Master FSP (CDM Smith 2012a) and Addendum to the Master FSP (CDM Smith 2012b) with the exception of the deviations discussed in Section 2.7. A total of 677 soil samples were collected from 204 locations in Subarea 5C. Table 2-1 provides a summary of the samples collected and the laboratory analyses requested; associated QA activities are described below.

## 4.5 Field Quality QA/QC

The field QC samples were to be collected at a frequency of 1 per 20 samples (5 percent) for MS/MSDs and field duplicates. Twenty-eight MS/MSD and field duplicate samples were collected at 18 Subarea 5C locations. MS/MSD and field duplicate samples were slightly below (four percent) the frequency requirements detailed in the Master FSP (CDM Smith 2012a). As discussed in Section 2.4.1, a complete evaluation of the accuracy and precision of the Subarea 5C sampling activities for all samples could not be performed. The validation performed did not identify any extensive indications of accuracy or precision problems based on MS/MSDs and field duplicates. This oversight is considered to have minimal impact to the quality of the data overall. Processes have been added to the sampling program to ensure the correct number of QC samples are collected.

Sections 2.4.2 and 2.4.3 discuss the equipment blanks and field blanks collected in association with the Phase 3 Subarea 5C soil samples. During the validation process, qualifiers are applied accordingly. Field blank samples were collected from each lot number of ASTM International water used for decontamination. Three field blanks were collected during sampling in Subarea 5C and 18 equipment blank samples were collected. The analytical results for the field blanks and equipment blanks collected in association with the Subarea 5C soil samples are presented in Appendix C and a summary of the detected results are shown in Tables 4-2 and 4-3 respectively.

**Table 4-2 Field Blanks for Subarea 5C Samples – Detected Results Only**

FB-060512 5C-DG-FB 6/05/2012			
Analyte	Units	Concentration/RL	Final Qualifier
1,2,3,7,8-Pentachlorodibenzofuran	pg/L	0.142/9.6	J
2,3,7,8-Tetrachlorodibenzofuran	pg/L	0.208/1.92	J
Acetone	µg/L	26/10	
Aluminum	mg/L	0.027/0.1	J
Calcium	mg/L	0.0263/0.1	J
Copper	mg/L	0.000954/0.001	J
Formaldehyde	mg/L	12/50	
Gasoline Range Organics	µg/L	49/50	

Table 4-2 Field Blanks for Subarea 5C Samples – Detected Results Only

FB-062012 5C-DG-FB 6/20/2012			
Analyte	Units	Concentration/RL	Final Qualifier
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	pg/L	1.05/9.83	J
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	pg/L	0.97/9.83	J
2-Butanone	µg/L	6.2/10	J
Aluminum	mg/L	0.0271/0.1	J
Boron	mg/L	0.00916/0.01	J
Calcium	mg/L	0.0438/0.1	J
Copper	mg/L	0.00112/0.001	
Gasoline Range Organics	µg/L	28/50	J
Methylene Chloride	µg/L	4.1/1	
Naphthalene	µg/L	0.26/0.2	
Toluene	µg/L	0.29/1	J
FB-071112 5C-DG-FB 7/11/2012			
Analyte	Units	Concentration/RL	Final Qualifier
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	pg/L	3.69/0.331	
1,2,3,4,6,7,8-HPCDF	pg/L	0.537/0.141	
1,2,3,4,7,8-HPCDF	pg/L	0.373/0.159	
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	pg/L	0.459/0.314	
1,2,3,4,7,8-HXCDF	pg/L	0.326/0.181	
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	pg/L	0.482/0.336	
1,2,3,6,7,8-HXCDF	pg/L	0.246/0.177	
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	pg/L	0.557/10.6	J
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	pg/L	0.557/0.296	
1,2,3,7,8-Pentachlorodibenzofuran	pg/L	0.544/0.23	
1,4-Dioxane	µg/L	1.9/2	J
2,3,4,6,7,8-HXCDF	pg/L	0.279/0.166	
2,3,4,7,8-PECDF	pg/L	0.462/0.213	
Aluminum	mg/L	0.0296/0.1	J
Copper	mg/L	0.00102/0.001	
Nickel	mg/L	0.000204/0.001	J
OCDD	pg/L	6.34/0.384	
OCDF	pg/L	1.09/0.375	

## Notes:

Blank result greater than RL

HxCDD = hexachlorodibenzofuran

PeCDF = pentachlorodibenzo-p-dioxin

HxCDF = hexachlorodibenzofuran

HPCDF = heptachlorodibenzofuran

OCDD = octachlorodibenzo-p-dioxin

OCDF = octachlorodibenzofuran

RL = Reporting Limit

µg/L = microgram per liter

mg/L = milligram per liter

pg/L = picogram per liter

ng/L = nanogram per liter

**Table 4-3 Equipment Blank Results for Subarea 5C Soil Samples – Detected Results Only**

EB-041912 5C-DG-EB 4/19/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Barium	mg/L	0.000878/0.001	J
Calcium	mg/L	0.0461/0.1	J
Copper	mg/L	0.000506/0.001	J
EB-042612 5C-DG-EB 4/26/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Aluminum	mg/L	0.044/0.1	J
Calcium	mg/L	0.0367/0.1	J
Copper	mg/L	0.00165/0.001	
Sodium	mg/L	0.0732/0.1	J
EB-050312 5C-DG-EB 05/03/2012			
Analyte	Units	Concentration/RL	Final Qualifier
1,2,3,7,8-Pentachlorodibenzofuran	pg/L	0.906/9.89	J
2,3,7,8-Tetrachlorodibenzofuran	pg/L	0.379/1.98	J
Aluminum	mg/L	0.0208/0.1	J
Calcium	mg/L	0.0374/0.1	J
Copper	mg/L	0.000802/0.001	J
Formaldehyde	µg/L	19/50	J
Gasoline Range Organics (C5-C12)	µg/L	42/50	J
Nickel	mg/L	0.000267/0.001	J
EB-051012 5C-DG-EB 05/10/2012			
Analyte	Units	Concentration/RL	Final Qualifier
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	pg/L	0.407/10.2	J
Aluminum	mg/L	0.0421/0.1	J
Boron	mg/L	0.00572/0.01	J
Copper	mg/L	0.00178/0.001	
Ethylbenzene	µg/L	0.44/1	J
m,p-Xylene	µg/L	0.59/2	J
Methylene Chloride	µg/L	3.5/1	
Naphthalene	µg/L	0.15/0.21	J
EB-051012 5C-DG-EB 05/10/2012			
Analyte	Units	Concentration/RL	Final Qualifier
o-Xylene	µg/L	0.25/1	J
Sodium	mg/L	0.0575/0.1	J
Toluene	µg/L	3/1	

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

EB-052412 5C-DG-EB 05/24/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Boron	mg/L	0.00549/0.01	J
EB-052412 5C-DG-EB 05/24/2012			
Naphthalene	µg/L	0.23/0.2	
Nickel	mg/L	0.000226/0.001	J
EB-053012 5C-DG-EB 05/30/2012			
Analyte	Units	Concentration/RL	Final Qualifier
2,3,7,8-Tetrachlorodibenzofuran	pg/L	0.32/2.22	J
Boron	mg/L	0.00535/0.01	J
Calcium	mg/L	0.0269/0.1	J
Naphthalene	µg/L	0.12/0.2	J
EB-053112 5C-DG-EB 05/31/2012			
Analyte	Units	Concentration/RL	Final Qualifier
1,2,3,7,8-Pentachlorodibenzofuran	pg/L	0.258/10.6	J
2,3,7,8-Tetrachlorodibenzofuran	pg/L	0.456/2.12	J
Aluminum	mg/L	0.0374/0.1	J
Barium	mg/L	0.00502/0.001	J
Boron	mg/L	0.00549/0.01	J
Copper	mg/L	0.00139/0.001	
Manganese	mg/L	0.000249/0.001	J
Naphthalene	µg/L	0.13/0.2	J
Sodium	mg/L	0.0526/0.1	J
EB-060112 5C-DG-EB 06/01/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Methylene Chloride	µg/L	1.8/1	
EB-061412 5C-DG-EB 06/14/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Boron	mg/L	0.00551/0.01	J
Gasoline Range Organics	µg/L	51/50	
EB-062812 5C-DG-EB 06/28/2012			
Analyte	Units	Concentration/RL	Final Qualifier
1,2,3,7,8,9-HXCDF	pg/L	0.137/9.7	J
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	pg/L	0.484/9.7	J

**Table 4-3 Equipment Blank Results for Subarea 5C Soil Samples – Detected Results Only**

EB-062812 5C-DG-EB 06/28/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Boron	mg/L	0.006/0.01	J
Gasoline Range Organics	µg/L	17/50	J
EB-071212 5C-DG-EB 07/12/2012			
Analyte	Units	Concentration/RL	Final Qualifier
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	pg/L	0.312/10.3	J
Aluminum	mg/L	0.045/0.1	
Boron	mg/L	0.00535/0.01	
Calcium	mg/L	0.0367/0.1	
Copper	mg/L	0.00157/0.001	
Gasoline Range Organics (C5-C12)	mg/L	22/50	
Iron	mg/L	0.0119/0.1	
Manganese	mg/L	0.000308/0.001	
Nickel	mg/L	0.000277/0.001	
EB1-051712 5C-DG-EB 05/17/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Aluminum	mg/L	0.0627/0.1	J
Boron	mg/L	0.00549/0.01	J
Copper	mg/L	0.00215/0.001	
Naphthalene	µg/L	0.12/0.22	J
Nickel	mg/L	0.000401/0.001	J
Potassium	mg/L	0.0204/0.1	J
Sodium	mg/L	0.0965/0.1	J
EB1-060712 5C-DG-EB 06/07/2012			
Analyte	Units	Concentration/RL	Final Qualifier
1,2,3,7,8-Pentachlorodibenzofuran	pg/L	0.333/10.8	J
Aluminum	mg/L	0.0449/0.1	J
Boron	mg/L	0.00577/0.01	J
Calcium	mg/L	0.0314/0.1	J
Copper	mg/L	0.0019/0.001	
Gasoline Range Organics (C5-C12)	µg/L	18/50	J
Sodium	mg/L	0.0803/0.1	J
EB2-051712 5C-DG-EB 06/07/2012			
Analyte	Units	Concentration/RL	Final Qualifier
2,3,7,8-Tetrachlorodibenzofuran	pg/L	0.375/2.17	J
Aluminum	mg/L	0.0329/0.1	J
Boron	mg/L	0.0057/0.01	J
Copper	mg/L	0.00096/0.001	J
Naphthalene	µg/L	0.11/0.21	J

**Table 4-3 Equipment Blank Results for Subarea 5C Soil Samples – Detected Results Only**

EB2-060712 5C-DG-EB 06/07/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Barium	mg/L	0.000605/0.001	J
EB2-060712 5C-DG-EB 06/07/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Boron	mg/L	0.00592/0.01	J
Calcium	mg/L	0.0496/0.1	J
Gasoline Range Organics (C5-C12)	mg/L	20/50	J
Manganese	mg/L	0.000211/0.001	J
Naphthalene	µg/L	0.25/0.22	
Nickel	mg/L	0.000336/0.001	J
EB2-062112 5C-DG-EB 06/21/2012			
Analyte	Units	Concentration/RL	Final Qualifier
1,2,3,4,7,8-HxCDF	pg/L	1.62/9.78	J
1,2,3,7,8-Pentachlorodibenzofuran	pg/L	0.596/9.78	J
2,3,7,8-Tetrachlorodibenzofuran	pg/L	1.31/1.96	J
Aluminum	mg/L	0.0723/0.1	J
Boron	mg/L	0.0056/0.01	J
Calcium	mg/L	0.0304/0.1	J
Copper	mg/L	0.00245/0.001	
Gasoline Range Organics	µg/L	32/50	J
Iron	mg/L	0.022/0.1	J
Manganese	mg/L	0.000336/0.001	J
Methylene Chloride	µg/L	0.91/1	J
Sodium	mg/L	0.104/0.1	

## Notes:

Blank result greater than RL

GRO = gasoline range organics

HxCDF = hexachlorodibenzofuran

RL = Reporting Limit

µg/L = microgram per liter

pg/L = picogram per liter

mg/L = milligram per liter

ng/L = nanogram per liter

Twenty-seven trip blank samples were shipped with the Subarea 5C soil samples. The analytical results for the trip blanks collected in association with the Subarea 5C soil samples are presented in Appendix C and a summary of the detected results are shown in Table 4-4.

**Table 4-4 Trip Blank Results for Subarea 5C Soil Samples – Detected Results Only**

TB-050112 TRIP BLANK SA5C 05/01/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	57/50	

Table 4-4 Trip Blank Results for Subarea 5C Soil Samples – Detected Results Only

TB-050712 TRIP BLANK SA5C 05/07/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	44/50	J
TB-051012 TRIP BLANK SA5C 05/10/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	29/50	J
TB-051412 TRIP BLANK SA5C 05/14/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	59/50	J
TB-051612 TRIP BLANK SA5C 05/16/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	22/50	J
TB-051712 TRIP BLANK SA5C 05/17/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	26/50	J
TB-052112 TRIP BLANK SA5C 05/21/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	46/50	J
TB-052212 TRIP BLANK SA5C 05/22/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	32/50	J
TB-052312 5C-DG-EB 05/23/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	19/50	J
TB-052412 TRIP BLANK SA5C 05/24/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	28/50	J
TB-052912 TRIP BLANK SA5C 05/29/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	27/50	J
TB-053012 TRIP BLANK SA5C 05/30/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	17/50	J

**Table 4-4 Trip Blank Results for Subarea 5C Soil Samples – Detected Results Only**

TB-053112 TRIP BLANK SA5C 05/31/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	27/50	J
TB-060112 TRIP BLANK SA5C 06/01/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	29/50	J
TB-060512 TRIP BLANK SA5C 06/05/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	41/50	J
TB-060612 TRIP BLANK SA5C 06/06/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	29/50	J
TB-0607012 TRIP BLANK SA5C 06/07/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	23/50	J
TB-061212 TRIP BLANK SA5C 06/12/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	18/50	J
TB-061312 TRIP BLANK SA5C 06/13/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	12/50	J
TB-061412 TRIP BLANK SA5C 06/14/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	15/50	J
TB-061812 TRIP BLANK SA5C 06/18/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	41/50	J
TB-061912 TRIP BLANK SA5C 06/19/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	23/50	J

**Table 4-4 Trip Blank Results for Subarea 5C Soil Samples – Detected Results Only**

TB-062012 TRIP BLANK SA5C 06/28/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	28/50	J
Methylene Chloride	µg/L	0.5/1	J
TB-062112 TRIP BLANK SA5C 06/25/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	28/50	J
Methylene Chloride	µg/L	0.51/1	J
TB-062512 TRIP BLANK SA5C 06/25/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	25/50	J
TB-062612 TRIP BLANK SA5C 06/26/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	26/50	J
TB-071012 TRIP BLANK SA5C 07/10/2012			
Analyte	Units	Concentration/RL	Final Qualifier
Gasoline Range Organics	µg/L	15/50	J

Notes:

Blank result greater than RL

RL = Reporting Limit

µg/L = microgram per liter

Data qualifications based on all blank detections and impacts to the data due to contaminants detected in the blanks are discussed in Section 4.7.3 and in the Appendix C validation reports. Temperature blanks were to be included with each shipment of samples. Based on validation results, all temperature blanks submitted with the Subarea 5C samples met criteria.

With the exception of the MS/MSD and duplicate samples, the number of field QC samples collected satisfies the minimum requirements for the Subarea 5C sampling program. The MS/MSD and field duplicate discrepancy is not considered to impact the overall quality of the data. Field QA/QC objectives were also attained through the use of appropriate sampling techniques.

## 4.6 Laboratory Quality QA/QC

Analytical QA/QC was assessed by laboratory QC checks, method blanks, sample custody tracking, sample preservation, adherence to holding times, laboratory control samples (LCs), MSs, calibration recoveries, surrogates, tuning criteria, second column confirmations, internal standards, serial dilutions, laboratory duplicates, and interference check standards. All laboratory QC sample criteria met project requirements with the appropriate qualifiers applied as indicated in the data validation reports in Appendix C. No sample results were rejected.

## 4.7 Data Quality Indicators

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

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

### 4.7.1 Precision

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

$$RPD = \frac{|(A-B)|}{\frac{A+B}{2}} \times 100$$

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

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

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

For the Subarea 5C soil data set, precision was evaluated by reviewing RPD results for MS/MSDs, LCS/LCSDs, laboratory duplicates, and field duplicates.

Laboratory RPD control limits are presented in the Master FSP (CDM Smith 2012a) or they are laboratory specific. For laboratory duplicates, if one or both of the sample results were less than two times the RL, a control limit of the absolute difference value equal to the RL was used for comparison.

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

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

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

- Some of the metal analyte results due to laboratory precision criteria

Field duplicate precision criteria required the qualification of some results for dioxins, various metal analytes, one mercury result, TPH EFH results, and SVOC SIM results for Subarea 5C samples. No results were rejected based on field duplicate precision criteria. All field duplicate RPD results are presented in Appendix C. In summary, sample results that have been qualified as estimated "J/UJ" due to precision criteria are usable for project decisions with a degree of caution.

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

#### 4.7.2 Accuracy

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

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

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

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

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

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

The following QC samples are used to assess laboratory accuracy:

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

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

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

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

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

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

**Internal Standards:** Internal standards measure the gas chromatograph/ mass spectrometer sensitivity and response stability during each analysis.

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

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

Qualifiers were applied to applicable sample results during the validation process based on laboratory accuracy results. Details of the validation and the number of analytes qualified are discussed in detail in the DUAR and laboratory validation reports in Appendix C.

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

- Some of the dioxin results, metals, and one VOC result due to MSs
- Some of the SVOC results due to surrogates
- Some of the metal analyte results due to serial dilutions
- Some of the dioxin results based on confirmation %Ds
- Some of the PCB/PCT results based on calibrations
- Some of the dioxin results due to internal standards
- One VOC result based on calibration relative response factors
- Some mercury results due to holding times

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

In summary, sample results that have been qualified as estimated "J/UJ" due to accuracy criteria are usable for project decisions.

### 4.7.3 Blank Contamination

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

In summary, for Subarea 5C samples, forty-six percent of the dioxin results were qualified as non-detect "U" due to laboratory blank contamination criteria. One VOC result was qualified as non-detect "U" due to field blank contamination.

For the dioxins, estimated detection limits (EDLs) are calculated for each sample. The EDLs for this analysis are very low, reported in nanogram per kilogram (ng/kg) or parts per trillion, resulting in numerous results qualified as estimated "J" values because they are below the RL. Many of these estimated values have been subsequently qualified as non-detect "U" because the compound was detected in related laboratory blanks. The laboratory blank results correlate to the sample EDLs and low level detections of dioxin analytes are somewhat inevitable because of the nature and universal extent of the compounds. The dioxin levels found in the blanks are well below site-related action levels. Therefore, the resulting qualification of associated sample results as not detected or "U" qualified data do not falsely diminish identification of site-related contaminants.

Tables 4-2 and 4-3 provide a summary of analytes observed in the field blank and equipment blank samples. Most of the detected compounds in the equipment blanks were below the RLs but above the method detection limits (MDLs). Compounds detected above the RL in equipment blanks are highlighted yellow in the associated tables.

ASTM International Type II water is not typically certified "clean" to the low RLs established for the low level methods used for Phase 3 Subarea 5C sampling. As shown in Table 4-2, a variety of analytes were detected in the field blanks. One VOC result (2-butanone) was qualified as non-detect based on field blank contamination. Low level detections of some dioxin compounds were detected in one of the field blanks as shown in Table 4-2. These detected results were all above the RL except for one dioxin compound. The laboratory was contacted to verify these reported values and help determine if sample carryover could have been the cause of these detected results. The laboratory evaluated the sequencing of the sample analyses and determined that carryover was not the cause of the detected dioxin results. The laboratory confirmed this conclusion by a thorough review of all associated method blanks, field samples and equipment blanks. A review of all field blank samples collected to date for the program do not show any pattern of dioxin contamination except for the sample shown in Table 4-2. The evaluation of ASTM International Type II water used in the field will continue throughout the sampling program to determine if another source should be procured for sampling if detected concentrations are above a rate normally expected in ASTM International Type II water.

A review of the Phase 3 equipment blanks for Subarea 5C was also performed. In general, a variety of analytes were detected above their respective RLs. All Phase 3 equipment blanks will continue to be monitored in order to determine if these low level detections are consistent, thus indicating a possible deficiency in decontamination procedures and/or source water impacts that need to be addressed and corrected. No qualification of sample results was required during the validation process regarding equipment blank contamination. To date, chemical detections in equipment blank samples appear to be random occurrences.

Trip blank results are presented in Table 4-3. All the trip blank samples had detections of GRO. The trip blank samples are received from the laboratory in coolers with the empty sample jars and are returned to the laboratory with the collected samples all the while unopened in the field. The laboratory was requested to review these anomalous results and the chromatograms for these samples. EMAX noted that the detects were the results of one or more discrete peaks that eluted in the range of GROs (from C5 to C12). Those discrete peaks were included in the integration of the samples resulting in GRO detection above the MRL. However, EMAX reported that there was no gasoline pattern shown in these trip blanks. CDM Smith will test a vial of each set (lot) of trip blank

samples received from a laboratory prior to their use to confirm the quality of the water supplied. This will help determine if future GRO detections above the MRL can be attributed to contamination in the shipping process (in the cooler) or if the detections of individual GRO compounds are isolated in the laboratory. Future reporting rules for GRO in trip blanks will require the identification of clearly identified GRO patterns by the laboratory. All sample results were non-detect for GRO for the Subarea 5C Phase 3 soil samples.

#### 4.7.4 Representativeness, Comparability, and Sensitivity

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

##### 4.7.4.1 Representativeness

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

Representativeness also can be monitored by reviewing field documentation and/or performing field audits. For this report, a detailed review was performed on the CoC forms, laboratory sample confirmation logs, and data validation packages. Laboratory QA/QC requirements were included in the WP/FSAP (CDM Smith 2012c) and laboratory statements of work (SOWs) to ensure that the laboratory analytical results were representative of true field conditions.

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

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

##### 4.7.4.2 Comparability

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

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

### 4.7.4.3 Sensitivity

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

#### *Detection Limits*

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

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

Laboratory results are reported according to rules that provide established certainty of detection and RLs. The result for an analyte is flagged with a "U" if that analyte was not detected, or qualified with a "J" flag if associated QC results fall outside the appropriate tolerance limits. Also, if an analyte is present at a concentration between the MDL and the RL, the analytical result is flagged with a "J," indicating an estimated quantity. Qualifying the result as an estimated concentration reflects increased uncertainty in the reported value.

Qualifiers were applied to applicable sample results by the laboratory and identified during the validation process based on sample results being reported as detected below the RL/MDL. This does not indicate a deficiency with the data but simply that the results are below the RLs/MDLs. Details of the validation and the number of results qualified are discussed in detail in the DUAR and laboratory validation reports in Appendix C.

In summary, for all methods analyzed for Subarea 5C, results for some of the analytes were qualified as estimated due to RL criteria for dioxins, metals, mercury, TPH EFH, one result for pesticides, PCBs/PCTs, one VOC result, SVOC SIM results, and one formaldehyde result. In general, for the data validated in this TM, RLs for the sample results were low enough to compare to the RLs stated in the WP/FSAP (CDM Smith 2012c).

## 4.8 Review of Selected Validation Reports

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

## 4.9 Data Completeness

Completeness of the data collection program is defined as the percentage of samples planned for collection as listed in the WP/FSAP (CDM Smith 2012c) versus the actual number of samples collected during the field program (see equation A).

Completeness for acceptable data is defined as the percentage of acceptable data obtained judged to be valid versus the total quantity of data generated (see equation B). Acceptable data include both

data that pass all the QC criteria (unqualified data) and data that may not pass all the QC criteria but had appropriate corrective actions taken (qualified but usable data).

$$\text{Equation A.} \quad \% \text{Completeness} = C \times \frac{100}{n}$$

Where:

C = actual number of samples collected

n = total number of samples planned

$$\text{Equation B.} \quad \% \text{Completeness} = V \times \frac{100}{n'}$$

Where:

V = number of measurements judged valid

n' = total number of measurements made

The overall completeness goal, as defined in the Master FSP (CDM Smith 2012a), for this sampling event is 90 percent for each analytical test for all project data.

A total of 677 Subarea 5C soil samples including the field duplicates were collected and analyzed. As discussed in Section 2.7, a total of 204 locations in Subarea 5C (Table 2-1) were to be sampled at one or more depths. No subsurface samples were collected at 19 locations as noted in Table 2-1 due to shallow refusal at less than 2.5 feet bgs. Some locations required only a subsurface or surface sample while other locations required both a surface and a subsurface sample. The number of subsurface samples to be collected at each location was not pre-determined because the total depth of each boring varies depending on the local geology. The completeness goal for the actual number of samples collected compared to the number of samples planned is considered acceptable as a sample was collected from each location (depending on shallow refusal) and locations for trench samples will be collected during future Phase 3 sampling activities.

The completeness goal achieved for acceptable data was 100 percent of the number of measurements judged to be valid versus the total number of measurements made for all Subarea 5C samples analyzed. Table 4-5 summarizes all results that were estimated.

**Table 4-5 Summary of Data Completeness Following Data Validation – Subarea 5C**

	Number of Analyte Detections Without Qualifiers	Number of Estimated Results	Number of Rejected Results	Number of Nondetect Results	Number of Estimated Nondetect Results	Total Analytes Detect and Nondetect	Percent of Analyte Results Judged Valid Versus Total Analyte Results Collected
Dioxins	443	1923		2427	52	4845	100
Perchlorate-314.0				1		1	100
Perchlorate-6850				121		121	100
Metals	6781	2203		1406	110	10500	100
Hexavalent Chromium	1			65		66	100
Mercury	11	12		321	7	351	100
Alcohols				171		171	100
TPH EFH	220	73		1154	3	1450	100
TPH GRO				175		175	100
Glycols				171		171	100
Pesticides		1		167		168	100
PCBs/PCTs	42	18		4488	144	4692	100
Herbicides				30		30	100
VOCs	2	1		458	1	462	100
1-4 Dioxane				6		6	100
SVOCs SIM	215	516		6003	834	7568	100
Formaldehyde	5	1		27		33	100
<b>Completeness Total for All Subarea 5C Samples Collected and Judged Valid</b>							<b>100</b>

Sampling deviations from procedures described in the WP/FSAP (CDM Smith 2012c) are discussed in Section 2.7 of this TM. Deviations did not impact DQOs for this sampling event. The data reported are suitable for their intended use for characterization of Area IV of SSFL. The DQIs identified in the WP/FSAP (CDM Smith 2012c) met appropriate criteria. The completeness goals for both the locations sampled and the number of measurements judged to be valid were met or will be met. The achievement of the completeness goals for the data indicates a sufficient amount of usable data has been generated for project decisions.

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

One hundred percent of the data validated for Subarea 5C, and reported in this TM, are suitable for their intended use for site characterization. No sample results were rejected. The RLs reported generally met the expected limits proposed by the analytical laboratory in their subcontract agreement with CDM Smith.

Sample results that were qualified as estimated are usable for project decisions. This data is considered usable.

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

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## Section 5

### References

CDM Smith. 2012a. *Master Field Sampling Plan for Chemical Data Gap Investigation, Phase 3 Soil Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California*. April 11.

CDM Smith. 2012b. *Addendum No. 1 to Master Field Sampling Plan for Chemical Data Gap Investigation, Phase 3 Soil Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California, Subarea 5C*. April 11.

CDM Smith. 2012c. *Work Plan for Chemical Data Gap Investigation, Phase 3 Soil Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California*. April 11.

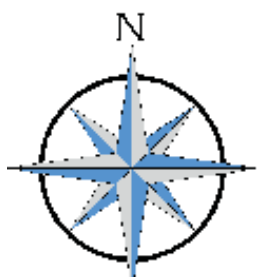
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Department of Toxic Substance and Control. 2010. Administrative Order on Consent for RA, Docket Number HAS-CO 10/11-037. December 6.

EPA. 2008. *EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*.

EPA. 2005. *EPA Contract Laboratory Program National Functional Guidelines for Chlorinated Dioxin/Furan Data Review*.

EPA. 2004. *EPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*.



**Legend**

- Sample Location
- ▭ Area IV Subarea
- ▭ Removed Building

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

## Subarea 5C Phase 3 Sample Locations



Santa Susana Field Laboratory  
 Ventura County, California  
**Exhibit 1**



Y:\SantaSusana\GIS\MXD\SSFL\_Phase3\_5C\_Sampling\_Locations\_18x24\_20130123.mxd 1/23/2013

# **Appendix A**

## **Analytical Results Tables**

### SSFL Main Qualification Definitions and Notes

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

- U** – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J** – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
- R** – The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.
- UJ** – The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

### SSFL Specific Qualification Definitions

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

Appendix A1  
Analytical Method, CAS Number and Chemical Name  
Subarea 5C

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

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8330A	78-11-5	Pentaerythritol Tetranitrate	
8330A	88-72-2	2-Nitrotoluene	
8330A	99-08-1	3-Nitrotoluene	
8330A	99-35-4	1,3,5-Trinitrobenzene	
8330A	99-99-0	4-Nitrotoluene	
8330A	121-14-2	2,4-Dinitrotoluene	
8330A	98-95-3	Nitrobenzene	
8330A	99-65-0	m-Dinitrobenzene	
8151A	120-36-5	Dichlorprop	
8151A	1918-00-9	Dicamba	
8151A	75-99-0	2,2-Dichlor-Propionic Acid	
8151A	88-85-7	Dinitrobutyl Phenol	
8151A	93-65-2	Methylchlorophenoxypropionic acid	MCPP
8151A	93-72-1	2,4,5-Trichlorophenoxyacetic acid	Silvex (2,4,5-TP)
8151A	93-76-5	2,4,5-Trichlorophenoxyacetic Acid	2,4,5-T
8151A	94-74-6	2-Methyl-4-Chlorophenoxyacetic Acid	MCPA
8151A	94-75-7	Dichlorophenoxyacetic Acid	2,4-D
8151A	94-82-6	4-(2,4-dichlorophenoxy)butanoic acid	2,4 DB
8081A	8001-35-2	Chlorinated Camphene	Toxaphene
8081A	1024-57-3	Heptachlor Epoxide	
8081A	1031-07-8	Endosulfan Sulfate	
8081A	2385-85-5	Mirex	
8081A	309-00-2	Aldrin	
8081A	319-84-6	Alpha-BHC	
8081A	319-85-7	Beta-BHC	
8081A	319-86-8	Delta-BHC	
8081A	33213-65-9	Endosulfan II	
8081A	50-29-3	4,4'-DDT	
8081A	53494-70-5	Endrin Ketone	
8081A	57-74-9	Chlordane	
8081A	58-89-9	Gamma-BHC (Lindane)	
8081A	60-57-1	Dieldrin	
8081A	72-20-8	Endrin	
8081A	72-43-5	Methoxychlor	
8081A	72-54-8	4,4'-DDD	
8081A	72-55-9	4,4'-DDE	
8081A	7421-93-4	Endrin Aldehyde	
8081A	76-44-8	Heptachlor	
8081A	959-98-8	Endosulfan I	
1613B	1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin	2,3,7,8-TCDD
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	1,2,3,7,8,9-HxCDD
1613B	3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	OCDD
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	1,2,3,4,6,7,8-HpCDD
1613B	39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran	OCDF
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,4,7,8-HxCDD
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	1,2,3,7,8-PeCDD
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF
1613B	55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF
1613B	57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF
1613B	57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	1,2,3,6,7,8-HxCDD
1613B	60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF
1613B	67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF
1613B	70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF
1613B	72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF
8082	11096-82-5	Aroclor 1260	
8082	11097-69-1	Aroclor 1254	
8082	11100-14-4	Aroclor 1268	
8082	11104-28-2	Aroclor 1221	
8082	11126-42-4	Aroclor 5460	
8082	11141-16-5	Aroclor 1232	
8082	12642-23-8	Aroclor 5442	

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8082	12672-29-6	Aroclor 1248	
8082	12674-11-2	Aroclor 1016	
8082	37324-23-5	Aroclor 1262	
8082	53469-21-9	Aroclor 1242	
8082	63496-31-1	Aroclor 5432	
1625C	62-75-9	N-Nitrosodimethylamine	
8270C SIM	62-75-9	N-Nitrosodimethylamine	
8270C	121-14-2	2,4-Dinitrotoluene	
8270C	98-95-3	Nitrobenzene	
8270C	106-46-7	1,4-Dichlorobenzene	
8270C	120-82-1	1,2,4-Trichlorobenzene	
8270C	541-73-1	1,3-Dichlorobenzene	
8270C	87-68-3	Hexachlorobutadiene	
8270C	95-50-1	1,2-Dichlorobenzene	
8270C	100-01-6	4-Nitroaniline	
8270C	100-02-7	4-Nitrophenol	
8270C	101-55-3	4-Bromophenyl Phenyl Ether	
8270C	105-67-9	2,4-Dimethylphenol	
8270C	106-44-5	4-Methylphenol	
8270C	106-47-8	4-Chloroaniline	
8270C	108-68-9	3,5-Dimethylphenol	
8270C	108-95-2	Phenol	
8270C	111-44-4	Bis(2-Chloroethyl) ether	
8270C	111-91-1	Bis(2-Chloroethoxy) methane	
8270C	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C SIM	117-81-7	Bis(2-Ethylhexyl) phthalate	
8270C	117-84-0	Di-N-Octyl Phthalate	
8270C SIM	117-84-0	Di-N-Octyl Phthalate	
8270C	118-74-1	Hexachlorobenzene	
8270C SIM	120-12-7	Anthracene	
8270C	120-83-2	2,4-Dichlorophenol	
8270C	122-66-7	1,2-Diphenylhydrazine	
8270C	129-00-0	Pyrene	
8270C SIM	129-00-0	Pyrene	
8270C	131-11-3	Dimethylphthalate	
8270C SIM	131-11-3	Dimethylphthalate	
8270C	132-64-9	Dibenzofuran	
8270C	191-24-2	Benzo(g,h,i)perylene	
8270C SIM	191-24-2	Benzo(g,h,i)perylene	
8270C	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C SIM	193-39-5	Indeno(1,2,3-Cd)Pyrene	
8270C	205-99-2	Benzo(b)fluoranthene	
8270C SIM	205-99-2	Benzo(b)fluoranthene	
8270C	206-44-0	Fluoranthene	
8270C SIM	206-44-0	Fluoranthene	
8270C	207-08-9	Benzo(k)fluoranthene	
8270C SIM	207-08-9	Benzo(k)fluoranthene	
8270C SIM	208-96-8	Acenaphthylene	
8270C	218-01-9	Chrysene	
8270C SIM	218-01-9	Chrysene	
8270C	39638-32-9	bis(2-Chloroisopropyl) ether	
8270C	50-32-8	Benzo(a)pyrene	
8270C SIM	50-32-8	Benzo(a)pyrene	
8270C	51-28-5	2,4-Dinitrophenol	
8270C	534-52-1	4,6-Dinitro-2-Methylphenol	
8270C	53-70-3	Dibenzo(a,h)anthracene	
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	
8270C	56-55-3	Benzo(a)anthracene	
8270C SIM	56-55-3	Benzo(a)anthracene	
8270C	59-50-7	4-Chloro-3-Methylphenol	
8270C	621-64-7	N-Nitroso-Di-N-Propylamine	
8270C	62-53-3	Aniline	
8270C	65-85-0	Benzoic Acid	

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8270C	67-72-1	Hexachloroethane	
8270C	7005-72-3	4-Chlorophenyl Phenylether	
8270C	77-47-4	Hexachlorocyclopentadiene	
8270C	78-59-1	Isophorone	
8270C SIM	83-32-9	Acenaphthene	
8270C	84-66-2	Diethylphthalate	
8270C SIM	84-66-2	Diethylphthalate	
8270C	84-74-2	Di-N-Butylphthalate	
8270C SIM	84-74-2	Di-N-Butylphthalate	
8270C	85-01-8	Phenanthrene	
8270C SIM	85-01-8	Phenanthrene	
8270C	85-68-7	Butylbenzylphthalate	
8270C SIM	85-68-7	Butylbenzylphthalate	
8270C	86-30-6	N-Nitrosodiphenylamine	
8270C SIM	86-73-7	Fluorene	
8270C	86-74-8	Carbazole	
8270C	87-86-5	Pentachlorophenol	
8270C	88-06-2	2,4,6-Trichlorophenol	
8270C	88-74-4	2-Nitroaniline	
8270C	88-75-5	2-Nitrophenol	
8270C	90-12-0	1-Methylnaphthalene	
8270C SIM	90-12-0	1-Methylnaphthalene	
8270C	91-20-3	Naphthalene	
8270C SIM	91-20-3	Naphthalene	
8270C	91-57-6	2-Methylnaphthalene	
8270C SIM	91-57-6	2-Methylnaphthalene	
8270C	91-58-7	2-Chloronaphthalene	
8270C	91-94-1	3,3'-Dichlorobenzidine	
8270C	92-87-5	Benidine	
8270C	95-48-7	2-Methylphenol	
8270C	95-57-8	2-Chlorophenol	
8270C	95-95-4	2,4,5-Trichlorophenol	
8270C	99-09-2	3-Nitroaniline	
8270C	100-51-6	Benzyl Alcohol	
8270C	606-20-2	2,6-Dinitrotoluene	
8015B	GROC5C12	Gasoline Range Organics (C5-C12)	GRO (C5-C12)
8015B	PHCC15C20	Extractable Fuel Hydrocarbons (C15-C20)	EFH (C15-C20)
8015B	PHCC21C30	Extractable Fuel Hydrocarbons (C21-C30)	EFH (C21-C30)
8015B	PHCC30C40	Extractable Fuel Hydrocarbons (C30-C40)	EFH (C30-C40)
8015B	PHCC8C11	Extractable Fuel Hydrocarbons (C8-C11)	EFH (C8-C11)
8260B	106-46-7	1,4-Dichlorobenzene	
8260B	120-82-1	1,2,4-Trichlorobenzene	
8260B	541-73-1	1,3-Dichlorobenzene	
8260B	87-68-3	Hexachlorobutadiene	
8260B	95-50-1	1,2-Dichlorobenzene	
8260B	99-87-6	Isopropyltoluene	
8260B	100-41-4	Ethylbenzene	
8260B	100-42-5	Styrene	
8260B	10061-01-5	cis-1,3-Dichloropropene	
8260B	10061-02-6	trans-1,3-Dichloropropene	
8260B	103-65-1	N-Propylbenzene	
8260B	104-51-8	N-Butylbenzene	
8260B	106-43-4	4-Chlorotoluene	
8260B	106-93-4	1,2-Dibromoethane	
8260B	107-06-2	1,2-Dichloroethane	
8260B	108-10-1	4-Methyl-2-Pentanone	
8260B	108-67-8	1,3,5-Trimethylbenzene	
8260B	108-86-1	Bromobenzene	
8260B	108-88-3	Toluene	
8260B	108-90-7	Chlorobenzene	
8260B	110-75-8	2-Chloroethyl Vinyl Ether	
8260B SIM	123-91-1	1,4-Dioxane	
8260B	124-48-1	Dibromochloromethane	

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8260B	127-18-4	Tetrachloroethene	
8260B	135-98-8	sec-Butylbenzene	
8260B	142-28-9	1,3-Dichloropropane	
8260B	156-59-2	cis-1,2-Dichloroethene	
8260B	156-60-5	trans-1,2-Dichloroethene	
8260B	1634-04-4	Methyl tert-Butyl Ether	
8260B	179601-23-1	m,p-Xylene	
8260B	56-23-5	Carbon tetrachloride	
8260B	563-58-6	1,1-Dichloropropene	
8260B	591-78-6	2-Hexanone	
8260B	594-20-7	2,2-Dichloropropane	
8260B	630-20-6	1,1,1,2-Tetrachloroethane	
8260B	67-64-1	Acetone	
8260B	67-66-3	Chloroform	
8260B	71-43-2	Benzene	
8260B	71-55-6	1,1,1-Trichloroethane	
8260B	74-83-9	Bromomethane	
8260B	74-87-3	Chloromethane	
8260B	74-95-3	Dibromomethane	
8260B	74-97-5	Bromochloromethane	
8260B	75-00-3	Chloroethane	
8260B	75-01-4	Vinyl Chloride	
8260B	75-09-2	Methylene chloride	
8260B	75-25-2	Bromoform	
8260B	75-27-4	Bromodichloromethane	
8260B	75-34-3	1,1-Dichloroethane	
8260B	75-35-4	1,1-Dichloroethene	
8260B	75-69-4	Trichlorofluoromethane	
8260B	75-71-8	Dichlorodifluoromethane	
8260B	75-88-7	1,1,1-Trichloro-2,2,2-trifluoroethane	Freon 113a
8260B	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	Freon 113
8260B	78-87-5	1,2-Dichloropropane	
8260B	78-93-3	2-Butanone	
8260B	79-00-5	1,1,2-Trichloroethane	
8260B	79-01-6	Trichloroethene	
8260B	79-34-5	1,1,2,2-Tetrachloroethane	
8260B	79-38-9	Chlorotrifluoroethene	
8260B	87-61-6	1,2,3-Trichlorobenzene	
8260B	95-47-6	o-Xylene	
8260B	95-49-8	2-Chlorotoluene	
8260B	95-63-6	1,2,4-Trimethylbenzene	
8260B	96-12-8	1,2-Dibromo-3-chloropropane	
8260B	96-18-4	1,2,3-Trichloropropane	
8260B	98-06-6	tert-Butylbenzene	
8260B	98-82-8	Isopropylbenzene	

				Sample Name	SL-592-SA5C-SB-0.5	SL-594-SA5C-SB-6.0	SL-594-SA5C-SB-9.0	SL-618-SA5C-SB-1.0	SL-628-SA5C-SB-10.5	SL-628-SA5C-SB-12.5
				Sample Type	N	N	N	N	N	N
				Sample Date	05/07/2012	06/21/2012	06/21/2012	05/31/2012	06/20/2012	06/20/2012
				SDG	12E049	12F162	12F162	12E267	12F146	12F146
				Start Depth	0.5	6	9	1	10.5	12.5
				End Depth	0.5	6	9	1	10.5	12.5
Analytic Method	CAS Number	Chemical Name	Unit							
8260B SIM	123-91-1	1,4-Dioxane	µg/kg	9.4 U	9.3 U	11 U	10 U	10 U	10 U	11 U

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

				SL-536-SA5C-SB-0.0-0.5	SL-536-SA5C-SB-4.0-5.0	SL-536-SA5C-SB-9.0-10.0	SL-537-SA5C-SB-0.0-0.5	SL-537-SA5C-SB-4.0-5.0	SL-537-SA5C-SB-9.0-10.0	SL-539-SA5C-SB-0.0-0.5	SL-539-SA5C-SB-6.0-7.0
				N	N	N	N	N	N	N	N
				05/08/2012	06/01/2012	06/01/2012	06/07/2012	06/07/2012	06/07/2012	06/05/2012	06/05/2012
				12E055	12F020	12F020	12F051	12F051	12F051	12F037	12F037
				0	4	9	0	4	9	0	6
				0.5	5	10	0.5	5	10	0.5	7
Analytic Method	CAS Number	Chemical Name	Unit								
8015B	64-17-5	Ethanol	µg/kg	540 U	540 U	550 U	570 U	580 U	580 U	570 U	550 U
8015B	67-56-1	Methanol	µg/kg	540 U	540 U	550 U	570 U	580 U	580 U	570 U	550 U
8015B	67-63-0	2-Propanol	µg/kg	540 U	540 U	550 U	570 U	580 U	580 U	570 U	550 U

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

				SL-543-SA5C-SB-0.0-0.5	SL-543-SA5C-SB-3.5-4.5	SL-544-SA5C-SB-0.0-0.5	SL-544-SA5C-SB-5.0-6.0	SL-545-SA5C-SB-0.0-0.5	SL-545-SA5C-SB-4.0-5.0	SL-545-SA5C-SB-9.0-10.0	SL-546-SA5C-SB-0.0-0.5
				N	N	N	N	N	N	N	N
				06/05/2012	06/05/2012	05/30/2012	05/30/2012	06/04/2012	06/04/2012	06/04/2012	06/06/2012
				12F037	12F037	12E244	12E244	12F037	12F037	12F037	12F044
				0	3.5	0	5	0	4	9	0
				0.5	4.5	0.5	6	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B	64-17-5	Ethanol	µg/kg	550 U	530 U	540 U	580 U	570 U	570 U	570 U	560 U
8015B	67-56-1	Methanol	µg/kg	550 U	530 U	540 U	580 U	570 U	570 U	570 U	560 U
8015B	67-63-0	2-Propanol	µg/kg	550 U	530 U	540 U	580 U	570 U	570 U	570 U	560 U

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

Sample Name				SL-546-SA5C-SB-4.0-5.0	SL-846-SA5C-SB-4.0-5.0	SL-546-SA5C-SB-9.0-10.0	SL-547-SA5C-SB-0.0-0.5	SL-547-SA5C-SB-4.0-5.0	SL-547-SA5C-SB-9.0-10.0	SL-548-SA5C-SB-0.0-0.5	SL-548-SA5C-SB-4.0-5.0
Sample Type				N	FD	N	N	N	N	N	N
Sample Date				06/06/2012	06/06/2012	06/06/2012	05/08/2012	06/07/2012	06/07/2012	05/08/2012	06/07/2012
SDG				12F044	12F044	12F044	12E055	12F051	12F051	12E055	12F051
Start Depth				4	4	9	0	4	9	0	4
End Depth				5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B	64-17-5	Ethanol	µg/kg	580 U	590 U	580 U	570 U	550 U	540 U	580 U	580 U
8015B	67-56-1	Methanol	µg/kg	580 U	590 U	580 U	570 U	550 U	540 U	580 U	580 U
8015B	67-63-0	2-Propanol	µg/kg	580 U	590 U	580 U	570 U	550 U	540 U	580 U	580 U

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

				SL-548-SA5C-SB-9.0-10.0	SL-550-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-4.0-5.0	SL-552-SA5C-SB-0.0-0.5	SL-554-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-2.5-3.5
				N	N	N	N	N	N	N	N
				06/07/2012	05/30/2012	06/05/2012	06/05/2012	06/05/2012	05/29/2012	05/29/2012	05/29/2012
				12F051	12E244	12F037	12F037	12F037	12E229	12E229	12E229
				9	0	0	4	0	0	0	2.5
				10	0.5	0.5	4	0.5	0.5	0.5	3.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B	64-17-5	Ethanol	µg/kg	570 U	540 U	580 U	560 U	530 U	550 U	570 U	570 U
8015B	67-56-1	Methanol	µg/kg	570 U	540 U	580 U	560 U	530 U	550 U	570 U	570 U
8015B	67-63-0	2-Propanol	µg/kg	570 U	540 U	580 U	560 U	530 U	550 U	570 U	570 U

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

				SL-559-SA5C-SB-0.0-0.5	SL-559-SA5C-SB-2.0-3.0	SL-559-SA5C-SB-7.0-8.0	SL-560-SA5C-SB-0.0-0.5	SL-560-SA5C-SB-6.5-7.5	SL-561-SA5C-SB-0.0-0.5	SL-561-SA5C-SB-5.5-6.5	SL-571-SA5C-SB-0.0-0.5
Sample Name				N	N	N	N	N	N	N	N
Sample Type				06/07/2012	06/07/2012	06/07/2012	05/30/2012	05/30/2012	06/05/2012	06/05/2012	04/26/2012
Sample Date				12F051	12F051	12F051	12E244	12E244	12F037	12F037	12D256
SDG				0	2	7	0	6.5	0	5.5	0
Start Depth				0.5	3	8	0.5	7.5	0.5	6.5	0.5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
8015B	64-17-5	Ethanol	µg/kg	580 U	590 U	580 U	580 U	550 U	570 U	530 U	580 U
8015B	67-56-1	Methanol	µg/kg	580 U	590 U	580 U	580 U	550 U	570 U	530 U	580 U
8015B	67-63-0	2-Propanol	µg/kg	580 U	590 U	580 U	580 U	550 U	570 U	530 U	580 U

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R - Result is rejected

				SL-571-SA5C-SB-4.0-5.0	SL-571-SA5C-SB-9.0-10.0	SL-572-SA5C-SB-0.0-0.5	SL-572-SA5C-SB-4.0-5.0	SL-872-SA5C-SB-4.0-5.0	SL-573-SA5C-SB-0.0-0.5	SL-573-SA5C-SB-4.0-5.0	SL-573-SA5C-SB-9.0-10.0
Sample Name				N	N	N	N	FD	N	N	N
Sample Type											
Sample Date				06/07/2012	06/07/2012	06/19/2012	06/19/2012	06/19/2012	06/04/2012	06/04/2012	06/04/2012
SDG				12F051	12F051	12F132	12F132	12F132	12F029	12F029	12F029
Start Depth				4	9	0	4	4	0	4	9
End Depth				5	10	0.5	5	5	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8015B	64-17-5	Ethanol	µg/kg	560 U	560 U	560 U	530 U	540 U	560 U	570 U	560 U
8015B	67-56-1	Methanol	µg/kg	560 U	560 U	560 U	530 U	540 U	560 U	570 U	560 U
8015B	67-63-0	2-Propanol	µg/kg	560 U	560 U	560 U	530 U	540 U	560 U	570 U	560 U

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				SL-608-SA5C-SB-0.0-0.5	SL-608-SA5C-SB-2.0-3.0	SL-609-SA5C-SB-0.0-0.5	SL-609-SA5C-SB-3.0-4.0	SL-610-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-2.5-3.5	SL-703-SA5C-SB-0.0-0.5
Sample Name				N	N	N	N	N	N	N	N
Sample Type				05/09/2012	05/31/2012	05/09/2012	05/31/2012	05/31/2012	05/23/2012	05/23/2012	04/26/2012
Sample Date				12E067	12E267	12E067	12E267	12E267	12E187	12E187	12D256
SDG				0	2	0	3	0	0	2.5	0
Start Depth				0.5	3	0.5	4	0.5	0.5	3.5	0.5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
8015B	64-17-5	Ethanol	µg/kg	520 U	530 U	560 U	560 U	520 U	550 U	550 U	550 U
8015B	67-56-1	Methanol	µg/kg	520 U	530 U	560 U	560 U	520 U	550 U	550 U	550 U
8015B	67-63-0	2-Propanol	µg/kg	520 U	530 U	560 U	560 U	520 U	550 U	550 U	550 U

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				Sample Name	SL-703-SA5C-SB-4.0-5.0	SL-703-SA5C-SB-9.0-10.0	SL-752-SA5C-SB-0.0-0.5
				Sample Type	N	N	N
				Sample Date	06/18/2012	06/18/2012	05/30/2012
				SDG	12F120	12F120	12E244
				Start Depth	4	9	0
				End Depth	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit				
8015B	64-17-5	Ethanol	µg/kg	560 U	570 U	580 U	
8015B	67-56-1	Methanol	µg/kg	560 U	570 U	580 U	
8015B	67-63-0	2-Propanol	µg/kg	560 U	570 U	580 U	

		Sample Name	SL-501-SA5C-SB-0.0-0.5	SL-501-SA5C-SB-4.0-5.0	SL-502-SA5C-SB-0.0-0.5	SL-802-SA5C-SB-0.0-0.5	SL-502-SA5C-SB-4.5-5.5	SL-507-SA5C-SB-0.0-0.5	SL-507-SA5C-SB-2.5-3.5	
		Sample Type	N	N	N	FD	N	N	N	
		Sample Date	04/20/2012	06/28/2012	04/20/2012	04/20/2012	06/28/2012	04/20/2012	06/11/2012	
		SDG	PH002	PH015	PH002	PH002	PH015	PH003	PH012	
		Start Depth	0	4	0	0	4.5	0	2.5	
		End Depth	0.5	5	0.5	0.5	5.5	0.5	3.5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.288 J Z	1.09 U	0.136 J FD, Z	0.0297 J FD, Z	1.11 U	1.07 U B	0.0994 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	13.5	0.917 J Z	4.31 J FD, Z	0.526 J FD, Z	0.637 J Z	1.58 J Z	2.83 J Z
1613B	3268-87-9	OCDD	ng/kg	6870 J *#	230	3350 J FD	153 J FD	934	373	1790
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	645	23.5	149 J FD, Q	8.92 J FD	32.9	18.5	75.2
1613B	39001-02-0	OCDF	ng/kg	178	7.17 J Z	31.3 J FD	1.72 J FD, Z	7.71 J Z	4.00 J Z	14.9
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.95	0.339 J Z	1.84 J FD, Z	0.190 J FD, Z	0.281 J Z	0.343 J Z	1.19 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	2.69 J Z	5.44 U B	1.05 J FD, Z	0.144 J FD, Z	5.55 U B	0.321 J Z	0.691 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.940 J Z	1.09 U	0.133 J FD, Z	1.18 UJ B, FD	1.11 U	0.163 J Z	0.0943 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	11.3	0.491 J Z	0.723 J FD, Z	0.212 J FD, Z	5.55 U B	5.34 U B	0.299 J Z
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	1.15 J Z	5.44 U B	5.89 UJ B, FD	5.89 UJ B, FD	5.55 U B	0.292 J Z	0.337 J Z
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	1.66 J Z	5.44 U B	0.306 J FD, Z	5.89 UJ B, FD	5.55 U	0.405 J Z	5.08 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	3.46 J Z	0.198 J Z	0.375 J FD, Z	5.89 UJ B, FD	5.55 U B	0.173 J Z	0.333 J Z
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	27.1	1.20 J Z	5.53 J FD, Z	0.477 J FD, Z	1.22 J Z	1.28 J Z	2.94 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.48	5.44 U B	0.526 J FD, Z	5.89 UJ B, FD	5.55 U B	0.208 J Z	0.679 J Z
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	72.4	2.76 J Z	9.95 J FD	0.658 J FD, Z	2.15 J Z	1.24 J Z	6.5
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	3.53 J Z	5.44 U B	0.777 J FD, Z	5.89 UJ B, FD	5.55 U B	5.34 U B	0.496 J Z
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	1.04 J Z	0.348 J Z	0.519 J FD, Z	0.226 J FD, Z	5.55 U	1.35 J Z	0.601 J Z

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		Sample Name	SL-508-SA5C-SB-0.0-0.5	SL-508-SA5C-SB-4.0-5.0	SL-508-SA5C-SB-6.5-7.5	SL-509-SA5C-SB-0.0-0.5	SL-509-SA5C-SB-4.0-5.0	SL-809-SA5C-SB-4.0-5.0	SL-509-SA5C-SB-9.0-10.0
		Sample Type	N	N	N	N	N	FD	N
		Sample Date	04/20/2012	06/11/2012	06/11/2012	04/20/2012	06/11/2012	06/11/2012	06/11/2012
		SDG	PH003	PH012	PH012	PH003	PH012	PH012	PH012
		Start Depth	0	4	6.5	0	4	4	9
		End Depth	0.5	5	7.5	0.5	5	5	10
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.04 U	0.0395 J Z	1.07 U	1.04 U B	0.0285 J FD, Z	0.0308 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	1.34 J Z	5.45 U B	5.33 U B	1.02 J Z	0.470 J FD, Z	0.580 J Z
1613B	3268-87-9	OCDD	ng/kg	518	13.3	59.6	102	149 J FD	175
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	29.7	5.45 U B	3.45 J Z	7.17	9.53 J FD	11
1613B	39001-02-0	OCDF	ng/kg	7.91 J Z	10.9 U B	0.916 J Z	2.00 J Z	2.60 J FD, Z	3.19 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.531 J Z	5.45 U B	5.33 U B	0.157 J Z	5.31 UJ B, FD	0.208 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.367 J Z	0.153 J Z	0.0977 J Z	0.174 J Z	0.113 J FD, Z	0.129 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.109 J Z	0.0519 J Z	0.0301 J Z	0.0707 J Z	0.0210 J FD, Z	0.0436 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	0.204 J Z	5.45 U B	5.33 U B	5.22 U B	5.31 UJ B, FD	5.29 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	0.258 J Z	5.45 U B	5.33 U B	5.22 U B	5.31 UJ B, FD	5.29 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.217 J Z	5.45 U B	5.33 U B	0.360 J Z	5.31 UJ B, FD	5.29 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.200 J Z	5.45 U B	5.33 U B	5.22 U B	5.31 UJ B, FD	5.29 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	1.44 J Z	5.45 U B	0.164 J Z	0.765 J Z	0.465 J FD, Z	0.556 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	0.230 J Z	5.45 U B	5.33 U B	5.22 U B	5.31 UJ B, FD	5.29 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	2.49 J Z	5.45 U B	0.323 J Z	0.833 J Z	1.11 J FD, Z	1.37 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	0.223 J Z	5.45 U B	5.33 U B	5.22 U B	5.31 UJ B, FD	5.29 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.534 J Z	5.45 U B	5.33 U B	1.17 J Z	0.173 J FD, Z	0.268 J Z

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		Sample Name	SL-510-SA5C-SB-0.0-0.5	SL-512A-SA5C-SB-0.0-0.5	SL-512-SA5C-SB-0.0-0.5	SL-812-SA5C-SB-0.0-0.5	SL-512-SA5C-SB-4.0-5.0	SL-512-SA5C-SB-6.0-7.0	SL-513-SA5C-SB-0.0-0.5	
		Sample Type	N	N	N	FD	N	N	N	
		Sample Date	04/19/2012	04/23/2012	05/10/2012	05/10/2012	05/10/2012	05/10/2012	04/19/2012	
		SDG	PH002	PH003	PH006	PH006	PH006	PH006	PH002	
		Start Depth	0	0	0	0	4	6	0	
		End Depth	0.5	0.5	0.5	0.5	5	7	0.5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.56	1.08 U B	0.150 J Z	0.106 J Z	0.0224 J Z	0.0808 J Z	0.0890 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	49.3	1.63 J Z	4.16 J Z	4.27 J Z	0.342 J Z	1.42 J Z	2.41 J Z
1613B	3268-87-9	OCDD	ng/kg	27500 J *#	948	2020	3050	221	683	883
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	1640	69.9	173 J FD, Q	312 J FD	13.4	62.1	69.7
1613B	39001-02-0	OCDF	ng/kg	389	20.5	53.9	44	4.36 J Z	14.4	23.7
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	25.3	0.701 J Z	2.26 J Z	2.14 J Z	0.159 J Z	0.780 J Z	0.872 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	12.3	0.385 J Z	1.05 J Z	0.992 J Z	5.81 U B	0.372 J Z	0.498 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.509 J Z	0.310 J Z	0.554 J Z	0.830 J Z	0.0334 J Z	0.159 J Z	0.362 J Z
1613B	55673-89-7	1,2,3,4,7,8-HPCDF	ng/kg	10.6	0.537 J Z	1.28 J Z	1.89 J Z	0.182 J Z	0.544 J Z	0.630 J Z
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	1.06 J Z	0.620 J Z	1.93 J FD, Z	4.66 J FD, Z	5.81 U B	0.729 J Z	0.937 J Z
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	1.59 J Z	1.10 J Z	2.40 J Z	3.82 J Z	0.247 J Z	0.588 J Z	1.19 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	3.24 J Z	0.488 J Z	1.21 J FD, Z	3.16 J FD, Z	0.0916 J Z	0.613 J Z	0.610 J Z
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	70.8	2.95 J Z	7.14 J FD	14.8 J FD	0.480 J Z	2.63 J Z	3.12 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	6.33	0.565 J Z	1.17 J FD, Z	3.40 J FD, Z	0.120 J Z	0.593 J Z	0.725 J Z
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	124	7.67	20.6 J FD	39.1 J FD	1.66 J Z	8	9.01
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	4.90 J Z	1.13 J Z	2.08 J FD, Z	5.27 J FD, Z	0.270 J Z	1.21 J Z	0.816 J Z
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	1.56 J Z	0.670 J Z	0.762 J FD, Z	2.47 J FD, Z	0.133 J Z	0.485 J Z	0.989 J Z

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R - Result is rejected

		Sample Name	SL-513-SA5C-SB-4.0-5.0	SL-513-SA5C-SB-9.0-10.0	SL-514-SA5C-SB-0.0-0.5	SL-814-SA5C-SB-0.0-0.5	SL-514-SA5C-SB-4.0-5.0	SL-514-SA5C-SB-9.0-10.0	SL-515-SA5C-SB-0.0-0.5
		Sample Type	N	N	N	FD	N	N	N
		Sample Date	05/10/2012	05/14/2012	04/17/2012	04/17/2012	05/14/2012	05/14/2012	04/19/2012
		SDG	PH006	PH007	PH001	PH001	PH007	PH007	PH002
		Start Depth	4	9	0	0	4	9	0
		End Depth	5	10	0.5	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0816 J Z	1.15 U B	1.19 U B	1.15 U B	1.11 U	0.0538 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.585 J Z	0.133 J Z	1.96 J Z	1.72 J Z	0.141 J Z	1.75 J Z
1613B	3268-87-9	OCDD	ng/kg	69.1	3.89 J Z	570 J Q	394	23.5	466
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.62	5.74 U B	48.3	35.6	2.39 J Z	31.1
1613B	39001-02-0	OCDF	ng/kg	1.82 J Z	11.5 U B	18.2 J FD	10.9 J FD, Z	11.1 U B	9.52 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.157 J Z	0.108 J Z	0.661 J Z	0.512 J Z	5.55 U B	0.438 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.239 J Z	5.74 U B	0.495 J Z	0.390 J Z	5.55 U B	0.363 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.0840 J Z	1.15 U B	0.313 J Z	0.284 J Z	1.11 U B	0.539 J Z
1613B	55673-89-7	1,2,3,4,7,8-HPCDF	ng/kg	5.38 U B	5.74 U B	0.569 J Z	0.479 J Z	5.55 U B	0.416 J Z
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	0.335 J Z	5.74 U B	5.93 U B	5.73 U B	5.55 U B	0.577 J Z
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.380 J Z	5.74 U B	0.908 J FD, Z	0.529 J FD, Z	5.55 U B	3.67 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.179 J Z	5.74 U B	0.487 J Z	0.401 J Z	5.55 U B	0.372 J Z
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.419 J Z	5.74 U B	2.45 J Z	2.16 J Z	5.55 U B	1.66 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	0.156 J Z	5.74 U B	0.513 J Z	0.469 J Z	5.55 U B	0.452 J Z
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	0.784 J Z	5.74 U B	6.59	4.57 J Z	0.399 J Z	3.77 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	0.231 J Z	5.74 U B	0.605 J Z	0.451 J Z	5.55 U B	1.19 J Z
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.379 J Z	5.74 U B	0.737 J Z	0.839 J Z	5.55 U B	1.24 J Z

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		Sample Name	SL-515-SA5C-SB-4.0-5.0	SL-515-SA5C-SB-9.0-10.0	SL-516-SA5C-SB-0.0-0.5	SL-516-SA5C-SB-4.0-5.0	SL-517-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-4.0-5.0	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	06/25/2012	06/25/2012	04/19/2012	04/19/2012	04/19/2012	04/19/2012	06/11/2012	
		SDG	PH015	PH015	PH002	PH002	PH002	PH002	PH012	
		Start Depth	4	9	0	4	0	0	4	
		End Depth	5	10	0.5	5	0.5	0.5	5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.120 J Z	1.10 U	7.68	0.900 J Z	1.91	0.111 J Z	0.0170 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.59 U B	5.50 U B	255	16.1	55.7	3.25 J Z	5.42 U B
1613B	3268-87-9	OCDD	ng/kg	4.26 J Z	4.52 J Z	105000 J *#	6990 J *#	32500 J *#	2970	23.5
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.59 U B	5.50 U B	16800 J *#	927	1440	136	5.42 U B
1613B	39001-02-0	OCDF	ng/kg	11.2 U B	11.0 U B	2380	175	345	47.4	10.8 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.59 U B	5.50 U	113	7.58	29.3	0.865 J Z	5.42 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.59 U B	5.50 U B	49.6	4.60 J Z	16.9	0.619 J Z	0.0296 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.0639 J Z	0.0627 J Z	2.34	0.281 J Z	0.425 J Z	0.313 J Z	1.08 U
1613B	55673-89-7	1,2,3,4,7,8-HPCDF	ng/kg	5.59 U B	5.50 U B	126	8.46	4.21 J Z	0.520 J Z	5.42 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.59 U B	5.50 U B	11.4	1.03 J Z	1.53 J Z	0.756 J Z	5.42 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.59 U B	5.50 U B	8.17	0.964 J Z	1.19 J Z	0.621 J Z	5.42 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.59 U B	5.50 U B	33.5	2.66 J Z	2.21 J Z	0.417 J Z	5.42 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.59 U B	5.50 U B	663	40.8	63.7	5.19	5.42 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.59 U B	5.50 U B	71.6	5.01 J Z	2.90 J Z	0.559 J Z	5.42 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.59 U B	5.50 U B	1350	81	79.3	9.59	5.42 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.59 U B	5.50 U B	38.3	2.76 J Z	5.64 J Z	0.726 J Z	5.42 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.59 U B	5.50 U B	5.75 U	0.813 J Z	1.60 J Z	1.85 J Z	5.42 U B

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

		Sample Name	SL-518-SA5C-SB-9.0-10.0	SL-520-SA5C-SB-0.0-0.5	SL-520-SA5C-SB-6.5-7.5	SL-521-SA5C-SB-0.0-0.5	SL-521-SA5C-SB-4.0-5.0	SL-521-SA5C-SB-9.0-10.0	SL-522-SA5C-SB-0.0-0.5	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	06/11/2012	04/23/2012	06/11/2012	06/11/2012	06/11/2012	06/11/2012	04/25/2012	
		SDG	PH012	PH003	PH012	PH012	PH012	PH012	PH003	
		Start Depth	9	0	6.5	0	4	9	0	
		End Depth	10	0.5	7.5	0.5	5	10	0.5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0519 J Z	1.10 U B	1.04 U	0.0311 J Z	0.0150 J Z	0.0333 J Z	1.07 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	1.12 J Z	1.56 J Z	5.22 U B	1.22 J Z	5.49 U B	5.55 U B	1.45 J Z
1613B	3268-87-9	OCDD	ng/kg	462	584	59.2	36.1	11.0 U B	11.1 U B	207
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	25.3	72.5	5.58	2.79 J Z	5.49 U B	5.55 U B	22
1613B	39001-02-0	OCDF	ng/kg	6.32 J Z	23.9	1.88 J Z	0.705 J Z	11.0 U B	11.1 U B	7.01 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.431 J Z	0.591 J Z	5.22 U B	5.79 U B	5.49 U	5.55 U B	0.366 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.304 J Z	0.331 J Z	0.101 J Z	0.170 J Z	5.49 U	0.111 J Z	0.434 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.0635 J Z	0.246 J Z	0.0448 J Z	0.0562 J Z	0.0207 J Z	0.0288 J Z	0.146 J Z
1613B	55673-89-7	1,2,3,4,7,8-HPCDF	ng/kg	5.35 U B	0.510 J Z	5.22 U B	5.79 U B	5.49 U B	5.55 U B	0.252 J Z
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	0.232 J Z	5.49 U B	5.22 U B	5.79 U B	5.49 U B	5.55 U B	0.553 J Z
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.35 U B	0.499 J Z	5.22 U B	0.249 J Z	5.49 U B	5.55 U B	0.429 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.35 U B	0.337 J Z	5.22 U B	5.79 U B	5.49 U B	5.55 U B	0.359 J Z
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	1.09 J Z	2.67 J Z	0.288 J Z	1.10 J Z	5.49 U B	5.55 U B	1.52 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.35 U B	0.427 J Z	5.22 U B	5.79 U B	5.49 U B	5.55 U B	0.360 J Z
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	1.80 J Z	7.41	0.845 J Z	5.79 U B	5.49 U B	5.55 U B	3.16 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	0.171 J Z	0.419 J Z	5.22 U B	5.79 U B	5.49 U B	5.55 U B	0.385 J Z
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.346 J Z	0.579 J Z	5.22 U B	1.34 J Z	5.49 U B	5.55 U B	0.709 J Z

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

		Sample Name	SL-522-SA5C-SB-4.0-5.0	SL-822-SA5C-SB-4.0-5.0	SL-522-SA5C-SB-9.0-10.0	SL-523-SA5C-SB-0.0-0.5	SL-523-SA5C-SB-4.0-5.0	SL-523-SA5C-SB-9.0-10.0	SL-530-SA5C-SB-0.0-0.5
		Sample Type	N	FD	N	N	N	N	N
		Sample Date	07/09/2012	07/09/2012	07/09/2012	04/25/2012	07/09/2012	07/09/2012	04/25/2012
		SDG	PH017	PH017	PH017	PH003	PH017	PH017	PH003
		Start Depth	4	4	9	0	4	9	0
		End Depth	5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0543 J FD, Z	1.09 UJ FD	1.04 U	1.02 U B	1.07 U	1.05 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.326 J Z	0.338 J Z	0.150 J Z	0.500 J Z	5.35 U	0.150 J Z
1613B	3268-87-9	OCDD	ng/kg	35.5	37.4	3.97 J Z	69.9	2.68 J Z	29.6
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	4.15 J Z	4.40 J Z	5.22 U B	6.01	5.35 U B	2.27 J Z
1613B	39001-02-0	OCDF	ng/kg	1.32 J Z	1.55 J Z	0.258 J Z	1.58 J Z	0.0897 J Z	0.444 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.171 J FD, Z	0.0890 J FD, Z	0.0998 J Z	5.08 U B	5.35 U	0.0320 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.38 UJ FD	5.44 UJ B, FD	5.22 U B	0.111 J Z	5.35 U	5.23 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.08 U	1.09 U	1.04 U	0.0803 J Z	1.07 U	1.05 U
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.38 UJ FD	0.0758 J FD, Z	0.0693 J Z	5.08 U B	0.0339 J Z	0.0339 J Z
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.38 UJ B, FD	5.44 UJ B, FD	5.22 U B	0.336 J Z	5.35 U B	5.23 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.38 U	5.44 U	5.22 U B	5.08 U B	5.35 U B	5.23 U
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.0858 J Z	0.0849 J Z	0.0735 J Z	5.08 U B	0.0364 J Z	0.0471 J Z
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.344 J Z	0.296 J Z	0.0718 J Z	0.525 J Z	0.0237 J Z	0.173 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.38 U B	5.44 U B	5.22 U B	0.198 J Z	5.35 U B	5.23 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	0.550 J Z	0.530 J Z	5.22 U B	0.939 J Z	5.35 U B	5.23 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.38 UJ B, FD	5.44 UJ B, FD	5.22 U B	5.08 U B	5.35 U B	5.23 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.255 J Z	5.44 U B	5.22 U	0.323 J Z	5.35 U B	5.23 U B

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

		Sample Name	SL-530-SA5C-SB-4.0-5.0	SL-530-SA5C-SB-9.0-10.0	SL-531-SA5C-SB-0.0-0.5	SL-531-SA5C-SB-4.0-5.0	SL-531-SA5C-SB-9.0-10.0	SL-532-SA5C-SB-0.0-0.5	SL-533-SA5C-SB-0.0-0.5	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	07/09/2012	07/09/2012	04/25/2012	07/09/2012	07/09/2012	04/23/2012	04/23/2012	
		SDG	PH017	PH017	PH003	PH017	PH017	PH003	PH003	
		Start Depth	4	9	0	4	9	0	0	
		End Depth	5	10	0.5	5	10	0.5	0.5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0546 J Z	1.05 U	1.07 U B	0.0324 J Z	1.11 U	1.09 J Z	1.01 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.0750 J Z	0.0826 J Z	1.01 J Z	0.113 J Z	0.277 J Z	28.8	0.376 J Z
1613B	3268-87-9	OCDD	ng/kg	8.18 J Z	10.5 U B	231	10.7 U B	18.7	10900 J *#	20.5
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.42 U B	5.26 U B	19.6	5.35 U B	1.88 J Z	1020	1.50 J Z
1613B	39001-02-0	OCDF	ng/kg	0.418 J Z	0.185 J Z	6.28 J Z	0.149 J Z	0.533 J Z	560	0.816 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.42 U	0.0437 J Z	0.273 J Z	0.0822 J Z	0.156 J Z	16.9	5.05 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.42 U	5.26 U B	0.246 J Z	5.35 U B	0.302 J Z	10	0.110 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.08 U	0.0561 J Z	0.191 J Z	0.0351 J Z	0.135 J Z	1.02 J Z	0.0434 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	0.0693 J Z	0.0804 J Z	0.261 J Z	0.0264 J Z	0.0734 J Z	10.7	5.05 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.42 U B	5.26 U B	0.563 J Z	5.35 U B	0.353 J Z	2.28 J Z	5.05 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.42 U B	5.26 U B	0.447 J Z	5.35 U B	0.390 J Z	1.30 J Z	0.204 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.0347 J Z	0.0348 J Z	0.296 J Z	0.0916 J Z	0.218 J Z	4.23 J Z	5.05 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.0567 J Z	5.26 U	1.36 J Z	0.0905 J Z	0.239 J Z	37.6	0.270 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.42 U B	5.26 U B	0.315 J Z	5.35 U B	0.155 J Z	5.94	5.05 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.42 U B	5.26 U B	3.08 J Z	5.35 U B	5.55 U B	141	5.05 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.42 U B	5.26 U B	0.326 J Z	5.35 U B	5.55 U B	6.57	5.05 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.42 U B	5.26 U B	0.523 J Z	5.35 U B	0.222 J Z	1.51 J Z	0.407 J Z

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

		Sample Name	SL-533-SA5C-SB-4.0-5.0	SL-533-SA5C-SB-9.0-10.0	SL-539-SA5C-SB-0.0-0.5	SL-539-SA5C-SB-6.0-7.0	SL-542-SA5C-SB-0.0-0.5	SL-542-SA5C-SB-1.0-2.0	SL-561-SA5C-SB-0.0-0.5	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	07/09/2012	07/09/2012	06/05/2012	06/05/2012	05/09/2012	05/09/2012	06/05/2012	
		SDG	PH017	PH017	PH011	PH011	PH006	PH006	PH011	
		Start Depth	4	9	0	6	0	1	0	
		End Depth	5	10	0.5	7	0.5	2	0.5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0813 J Z	0.116 J Z	1.09 U B	1.13 U B	0.0822 J Z	1.09 U	1.12 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.141 J Z	0.0809 J Z	5.45 U B	5.66 U B	1.62 J Z	0.727 J Z	0.251 J Z
1613B	3268-87-9	OCDD	ng/kg	2.48 J Z	6.40 J Z	4.72 J Z	11.3 U B	469	166	3.30 J Z
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.37 U B	5.44 U B	5.45 U B	5.66 U B	49.2	17.7	5.60 U B
1613B	39001-02-0	OCDF	ng/kg	0.205 J Z	0.297 J Z	10.9 U B	11.3 U B	15.4	5.54 J Z	11.2 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.0623 J Z	0.0431 J Z	5.45 U B	5.66 U B	0.824 J Z	0.303 J Z	5.60 U
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.37 U B	5.44 U B	0.0227 J Z	0.0593 J Z	0.601 J Z	0.229 J Z	0.0394 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.07 U	1.09 U	0.0279 J Z	0.0149 J Z	0.128 J Z	0.0597 J Z	0.0282 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	0.0993 J Z	0.0613 J Z	5.45 U B	5.66 U B	0.550 J Z	0.209 J Z	5.60 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.37 U B	5.44 U B	5.45 U B	5.66 U B	0.474 J Z	5.45 U B	5.60 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.232 J Z	5.44 U B	5.45 U B	5.66 U B	0.404 J Z	0.235 J Z	5.60 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.124 J Z	0.0805 J Z	5.45 U B	5.66 U B	0.483 J Z	0.243 J Z	5.60 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.0647 J Z	0.0808 J Z	5.45 U B	5.66 U B	2.09 J Z	0.731 J Z	0.191 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.37 U B	5.44 U B	5.45 U B	5.66 U B	0.568 J Z	0.222 J Z	5.60 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.37 U B	5.44 U B	5.45 U B	5.66 U B	7.24	2.44 J Z	5.60 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.37 U B	5.44 U B	5.45 U B	5.66 U B	0.791 J Z	0.280 J Z	5.60 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.37 U B	5.44 U B	5.45 U B	5.66 U B	0.196 J Z	0.161 J Z	0.238 J Z

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

		Sample Name	SL-561-SA5C-SB-5.5-6.5	SL-564-SA5C-SB-0.0-0.5	SL-564-SA5C-SB-4.0-5.0	SL-564-SA5C-SB-9.0-10.0	SL-565-SA5C-SB-0.0-0.5	SL-565-SA5C-SB-4.0-5.0	SL-565-SA5C-SB-9.0-10.0	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	06/05/2012	06/04/2012	06/04/2012	06/04/2012	06/04/2012	06/04/2012	06/04/2012	
		SDG	PH011	PH011	PH011	PH011	PH011	PH011	PH011	
		Start Depth	5.5	0	4	9	0	4	9	
		End Depth	6.5	0.5	5	10	0.5	5	10	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.04 U	1.13 U B	1.09 U	1.11 U	1.13 U	1.05 U B	1.08 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.19 U B	5.66 U B	5.45 U B	5.55 U B	0.283 J Z	5.24 U B	5.40 U B
1613B	3268-87-9	OCDD	ng/kg	10.4 U B	2.96 J Z	10.9 U B	11.1 U B	2.64 J Z	4.10 J Z	4.26 J Z
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.19 U B	5.66 U B	5.45 U B	5.55 U B	5.64 U B	5.24 U B	5.40 U B
1613B	39001-02-0	OCDF	ng/kg	10.4 U B	11.3 U B	10.9 U B	11.1 U B	11.3 U B	10.5 U B	10.8 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.19 U B	5.66 U B	5.45 U B	5.55 U B	5.64 U	5.24 U B	5.40 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.0259 J Z	0.0569 J Z	0.0368 J Z	0.0212 J Z	0.0612 J Z	0.0190 J Z	0.0195 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.0128 J Z	0.0157 J Z	1.09 U	0.0212 J Z	0.0183 J Z	0.0166 J Z	0.0226 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.19 U B	5.66 U B	5.45 U B	5.55 U B	5.64 U B	5.24 U B	5.40 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.19 U B	5.66 U B	5.45 U B	5.55 U B	5.64 U B	5.24 U B	5.40 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.19 U B	5.66 U B	5.45 U B	5.55 U B	5.64 U B	5.24 U B	5.40 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.19 U B	5.66 U B	5.45 U B	5.55 U B	5.64 U B	5.24 U B	5.40 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.19 U B	5.66 U B	5.45 U B	5.55 U B	0.186 J Z	5.24 U B	5.40 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.19 U B	5.66 U B	5.45 U B	5.55 U B	5.64 U B	5.24 U B	5.40 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.19 U B	5.66 U B	5.45 U B	5.55 U B	5.64 U B	5.24 U B	5.40 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.19 U B	5.66 U B	5.45 U B	5.55 U B	5.64 U B	5.24 U B	5.40 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.19 U B	5.66 U B	5.45 U B	5.55 U	0.201 J Z	5.24 U B	5.40 U B

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

		Sample Name	SL-566-SA5C-SB-0.0-0.5	SL-566-SA5C-SB-4.0-5.0	SL-566-SA5C-SB-9.0-10.0	SL-567-SA5C-SB-0.0-0.5	SL-567-SA5C-SB-3.0-4.0	SL-569-SA5C-SB-0.0-0.5	SL-569-SA5C-SB-4.0-5.0	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	05/08/2012	06/04/2012	06/04/2012	06/06/2012	06/06/2012	06/04/2012	06/04/2012	
		SDG	PH006	PH011	PH011	PH011	PH011	PH011	PH011	
		Start Depth	0	4	9	0	3	0	4	
		End Depth	0.5	5	10	0.5	4	0.5	5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0859 J Z	1.12 U	1.12 U B	1.11 U B	1.14 U	0.147 J Z	1.12 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.676 J Z	5.58 U B	0.205 J Z	5.53 U B	5.69 U B	0.465 J Z	5.58 U B
1613B	3268-87-9	OCDD	ng/kg	189	7.72 J Z	49.7	11.1 U B	11.4 U B	43.4	5.08 J Z
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	19.9	5.58 U B	5.09 J Z	5.53 U B	5.69 U B	7.05	5.58 U B
1613B	39001-02-0	OCDF	ng/kg	5.73 J Z	11.2 U B	1.44 J Z	11.1 U B	11.4 U B	1.01 J Z	11.2 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.169 J Z	5.58 U	0.0866 J Z	5.53 U B	5.69 U B	0.148 J Z	5.58 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.192 J Z	0.0253 J Z	0.219 J Z	0.0848 J Z	0.0672 J Z	0.265 J Z	5.58 U
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.0950 J Z	0.0237 J Z	0.0976 J Z	0.0300 J Z	0.0233 J Z	0.112 J Z	1.12 U
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	0.132 J Z	5.58 U B	5.61 U B	5.53 U B	5.69 U B	5.50 U B	5.58 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	0.570 J Z	5.58 U B	5.61 U B	5.53 U B	5.69 U B	0.285 J Z	5.58 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.135 J Z	5.58 U B	0.255 J Z	0.126 J Z	5.69 U B	0.330 J Z	5.58 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.344 J Z	5.58 U B	0.123 J Z	0.0841 J Z	5.69 U B	0.195 J Z	5.58 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.760 J Z	5.58 U B	0.226 J Z	5.53 U B	5.69 U B	0.528 J Z	5.58 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	0.204 J Z	5.58 U B	0.0963 J Z	5.53 U B	5.69 U B	0.138 J Z	5.58 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	2.83 J Z	5.58 U B	0.696 J Z	5.53 U B	5.69 U B	0.708 J Z	5.58 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	0.222 J Z	5.58 U B	0.154 J Z	5.53 U B	5.69 U B	0.187 J Z	5.58 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.264 J Z	5.58 U B	5.61 U B	5.53 U B	5.69 U B	0.282 J Z	5.58 U B

U - Compound not detected above the reporting limit  
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R - Result is rejected

		Sample Name	SL-570-SA5C-SB-0.0-0.5	SL-570-SA5C-SB-2.0-3.0	SL-574-SA5C-SB-0.0-0.5	SL-574-SA5C-SB-4.0-5.0	SL-574-SA5C-SB-9.0-10.0	SL-575-SA5C-SB-0.0-0.5	SL-575-SA5C-SB-4.0-5.0	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	04/18/2012	04/18/2012	04/20/2012	06/11/2012	06/11/2012	04/19/2012	06/25/2012	
		SDG	PH002	PH002	PH003	PH012	PH012	PH002	PH015	
		Start Depth	0	2	0	4	9	0	4	
		End Depth	0.5	3	0.5	5	10	0.5	5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.09 U	0.0279 J Z	1.18 U B	1.08 U	0.0989 J Z	0.105 J Z	1.08 U
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.898 J Z	0.610 J Z	2.88 J Z	0.291 J Z	0.407 J Z	2.75 J Z	0.174 J Z
1613B	3268-87-9	OCDD	ng/kg	250	302	721	12.6	117	1570	38.4
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	28.5	28.9	48	5.40 U B	7.12	85.6	2.34 J Z
1613B	39001-02-0	OCDF	ng/kg	8.62 J Z	6.07 J Z	12.2	10.8 U B	2.27 J Z	24.7	0.990 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.419 J Z	0.306 J Z	0.867 J Z	5.40 U B	0.223 J Z	0.792 J Z	5.41 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.257 J Z	0.156 J Z	0.620 J Z	0.121 J Z	0.302 J Z	0.592 J Z	5.41 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.09 U B	1.07 U B	0.176 J Z	0.0292 J Z	0.132 J Z	0.885 J Z	0.108 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	0.319 J Z	0.288 J Z	0.291 J Z	5.40 U B	5.53 U B	0.753 J Z	5.41 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.46 U B	5.36 U B	0.289 J Z	5.40 U B	0.310 J Z	1.42 J Z	5.41 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.473 J Z	0.328 J Z	0.425 J Z	5.40 U B	0.430 J Z	5.52 J Z	0.358 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.227 J Z	0.162 J Z	0.346 J Z	5.40 U B	0.226 J Z	0.697 J Z	5.41 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	1.37 J Z	0.990 J Z	2.52 J Z	0.220 J Z	0.399 J Z	3.82 J Z	5.41 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	0.287 J Z	0.248 J Z	0.311 J Z	5.40 U B	5.53 U B	0.676 J Z	5.41 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	3.97 J Z	2.39 J Z	4.25 J Z	5.40 U B	0.842 J Z	8.2	0.349 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	0.405 J Z	0.257 J Z	0.366 J Z	5.40 U B	0.250 J Z	2.85 J Z	5.41 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.140 J Z	0.122 J Z	1.27 J Z	0.283 J Z	0.211 J Z	1.31 J Z	5.41 U B

U - Compound not detected above the reporting limit  
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R - Result is rejected

		Sample Name	SL-577-SA5C-SB-0.0-0.5	SL-578-SA5C-SB-0.0-0.5	SL-578-SA5C-SB-4.0-5.0	SL-579-SA5C-SB-0.0-0.5	SL-579-SA5C-SB-4.0-5.0	SL-580-SA5C-SB-0.0-0.5	SL-580-SA5C-SB-4.0-5.0	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	04/17/2012	04/17/2012	06/27/2012	04/18/2012	04/18/2012	04/18/2012	04/18/2012	
		SDG	PH002	PH001	PH015	PH002	PH002	PH002	PH002	
		Start Depth	0	0	4	0	4	0	4	
		End Depth	0.5	0.5	5	0.5	5	0.5	5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0587 J Z	1.16 U B	0.141 J Z	0.110 J Z	1.09 U	0.112 J Z	0.0783 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	1.80 J Z	1.82 J Z	0.728 J Z	1.55 J Z	0.484 J Z	1.77 J Z	0.156 J Z
1613B	3268-87-9	OCDD	ng/kg	2650	446	160	568	193	717	4.05 J Z
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	152	27.5	10.9	54	15.9	57.5	5.64 U B
1613B	39001-02-0	OCDF	ng/kg	33.9	7.92 J Z	2.96 J Z	14.7	3.96 J Z	20.2	11.3 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.823 J Z	0.489 J Z	0.231 J Z	0.554 J Z	0.138 J Z	0.720 J Z	5.64 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.366 J Z	0.438 J Z	0.485 J Z	0.424 J Z	0.107 J Z	0.521 J Z	0.189 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.34	0.252 J Z	0.164 J Z	0.558 J Z	1.09 U B	0.789 J Z	1.13 U B
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	2.16 J Z	5.81 U B	5.30 U B	0.881 J Z	0.177 J Z	0.720 J Z	5.64 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	2.40 J Z	5.81 U B	5.30 U B	0.776 J Z	5.44 U B	0.816 J Z	5.64 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	45.9	1.10 J Z	0.668 J Z	14.2	1.97 J Z	12.4	0.210 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	1.95 J Z	0.279 J Z	5.30 U B	0.476 J Z	5.44 U B	0.541 J Z	5.64 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	4.35 J Z	1.76 J Z	0.859 J Z	2.51 J Z	0.815 J Z	2.57 J Z	5.64 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	2.09 J Z	5.81 U B	5.30 U B	0.620 J Z	5.44 U B	0.720 J Z	5.64 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	16.5	2.94 J Z	1.22 J Z	6.05	1.74 J Z	6.84	5.64 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	9.07	0.431 J Z	5.30 U B	2.47 J Z	0.416 J Z	2.45 J Z	5.64 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.78 U	1.07 J Z	0.621 J Z	0.533 J Z	0.221 J Z	0.613 J Z	0.106 J Z

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

		Sample Name	SL-581-SA5C-SB-0.0-0.5	SL-581-SA5C-SB-4.0-5.0	SL-881-SA5C-SB-4.0-5.0	SL-583-SA5C-SB-0.0-0.5	SL-583-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-0.0-0.5	SL-586-SA5C-SB-4.0-5.0	
		Sample Type	N	N	FD	N	N	N	N	
		Sample Date	04/17/2012	06/26/2012	06/26/2012	07/24/2012	07/24/2012	05/07/2012	07/11/2012	
		SDG	PH002	PH015	PH015	PH025	PH025	PH005	PH016	
		Start Depth	0	4	4	0	4	0	4	
		End Depth	0.5	5	5	0.5	5	0.5	5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.08 U	1.06 U	1.11 U	0.547 J Z	1.03 U	0.466 J Z	0.0513 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	1.22 J Z	1.05 J FD, Z	0.608 J FD, Z	0.563 J Z	0.357 J Z	15.5	5.42 U B
1613B	3268-87-9	OCDD	ng/kg	169	286 J FD, Q	128 J FD	3.12 J Z	10.3 U B	3280	7.37 J Z
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	21.2	37.1 J FD, Q	18.4 J FD	5.10 U B	5.14 U B	588	1.61 J Z
1613B	39001-02-0	OCDF	ng/kg	5.61 J Z	11.2 J FD	3.93 J FD, Z	10.2 U B	10.3 U B	63.7	10.8 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.210 J Z	0.401 J Z	0.268 J Z	0.0573 J Z	0.0517 J Z	6.18	5.42 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.205 J Z	5.32 UJ B, FD	5.54 UJ B, FD	0.583 J Z	5.14 U B	3.61 J Z	5.42 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.08 U B	0.0963 J FD, Z	0.0572 J FD, Z	1.02 U	1.03 U	0.700 J Z	1.08 U
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	0.239 J Z	0.553 J FD, Z	5.54 UJ B, FD	5.10 U B	5.14 U B	3.12 J Z	5.42 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.38 U B	5.32 UJ B, FD	5.54 UJ B, FD	5.10 U B	5.14 U B	2.85 J Z	5.42 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.329 J Z	5.32 U B	5.54 U B	5.10 U B	5.14 U B	2.22 J Z	0.147 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.160 J Z	0.183 J Z	0.196 J Z	5.10 U B	5.14 U B	2.80 J Z	5.42 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	1.45 J Z	1.80 J FD, Z	0.915 J FD, Z	0.386 J Z	0.279 J Z	17	5.42 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.38 U B	0.268 J FD, Z	5.54 UJ B, FD	5.10 U B	5.14 U B	2.21 J Z	5.42 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	2.39 J Z	4.15 J FD, Z	1.50 J FD, Z	5.10 U B	5.14 U B	24	5.42 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.38 U B	0.324 J Z	0.280 J Z	5.10 U B	5.14 U B	3.32 J Z	5.42 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.684 J Z	5.32 U B	5.54 U B	0.396 J Z	0.688 J Z	0.830 J Z	5.42 U B

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

		Sample Name	SL-586-SA5C-SB-9.0-10.0	SL-587-SA5C-SB-0.0-0.5	SL-587-SA5C-SB-4.0-5.0	SL-887-SA5C-SB-4.0-5.0	SL-587-SA5C-SB-8.5-9.5	SL-588-SA5C-SB-0.0-0.5	SL-588-SA5C-SB-4.0-5.0	
		Sample Type	N	N	N	FD	N	N	N	
		Sample Date	07/11/2012	05/02/2012	06/20/2012	06/20/2012	06/20/2012	05/07/2012	07/11/2012	
		SDG	PH016	PH004	PH014	PH014	PH014	PH005	PH016	
		Start Depth	9	0	4	4	8.5	0	4	
		End Depth	10	0.5	5	5	9.5	0.5	5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.08 U	0.101 J Z	0.0484 J FD, Z	1.14 UJ FD	0.0392 J Z	1.05 U B	0.0675 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.238 J Z	0.778 J Z	0.562 J Z	0.597 J Z	5.17 U B	1.57 J Z	1.66 J Z
1613B	3268-87-9	OCDD	ng/kg	38.1	578	47.8 J FD	16.6 J FD	32.8	455	277
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	7.6	44.2	3.44 J FD, Z	1.53 J FD, Z	2.85 J Z	70.7	49.7
1613B	39001-02-0	OCDF	ng/kg	10.8 U B	10.2 J Z	1.62 J FD, Z	0.909 J FD, Z	1.55 J Z	6.10 J Z	1.64 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.39 U B	0.214 J Z	5.62 UJ FD	0.0435 J FD, Z	0.0367 J Z	0.507 J Z	0.379 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.39 U B	0.279 J Z	0.0919 J Z	0.110 J Z	0.0382 J Z	0.339 J Z	0.336 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.08 U	0.164 J Z	1.12 UJ FD	1.14 UJ B, FD	1.03 U	0.399 J Z	1.15 U B
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.39 U B	0.269 J Z	5.62 UJ B, FD	5.71 UJ B, FD	5.17 U B	0.376 J Z	5.73 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.39 U B	0.536 J Z	5.62 U B	5.71 U B	5.17 U B	1.03 J Z	5.73 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.0729 J Z	0.520 J Z	0.195 J Z	0.200 J Z	5.17 U B	0.945 J Z	0.358 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.39 U B	0.239 J Z	5.62 U B	5.71 U B	5.17 U B	0.261 J Z	5.73 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.342 J Z	1.07 J Z	0.515 J Z	0.471 J Z	5.17 U B	1.79 J Z	1.64 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.39 U B	0.254 J Z	0.0977 J Z	0.0883 J Z	0.0521 J Z	0.349 J Z	0.142 J Z
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.39 U B	3.14 J Z	0.548 J Z	5.71 U B	0.515 J Z	2.70 J Z	0.817 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.39 U B	0.366 J Z	0.201 J FD, Z	5.71 UJ B, FD	5.17 U B	0.487 J Z	0.228 J Z
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.39 U B	0.408 J Z	0.414 J Z	0.578 J Z	5.17 U B	0.298 J Z	0.901 J Z

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

		Sample Name	SL-588-SA5C-SB-9.0-10.0	SL-589-SA5C-SB-0.0-0.5	SL-589-SA5C-SB-4.0-5.0	SL-591-SA5C-SB-0.0-0.5	SL-591-SA5C-SB-4.0-5.0	SL-592-SA5C-SB-0.0-0.5	SL-592-SA5C-SB-5.0-6.0	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	07/11/2012	05/07/2012	07/11/2012	05/02/2012	07/11/2012	05/07/2012	07/11/2012	
		SDG	PH016	PH005	PH016	PH004	PH018	PH005	PH018	
		Start Depth	9	0	4	0	4	0	5	
		End Depth	10	0.5	5	0.5	5	0.5	6	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.02 U	1.09 U B	1.11 U	0.0658 J Z	1.12 U B	1.06 U	1.03 U
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.12 U	0.452 J Z	0.715 J Z	0.574 J Z	0.565 J Z	0.505 J Z	0.323 J Z
1613B	3268-87-9	OCDD	ng/kg	10.2 U B	186	9.59 J Z	96.9	19.3	193	103
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.12 U B	10.5	5.56 U B	7.86	2.08 J Z	17.1	8.79
1613B	39001-02-0	OCDF	ng/kg	10.2 U B	8.24 J Z	11.1 U B	4.08 J Z	0.707 J Z	6.80 J Z	2.77 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.12 U	5.43 U B	5.56 U B	0.164 J Z	5.58 U B	0.217 J Z	5.15 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.12 U B	0.165 J Z	5.56 U B	0.192 J Z	5.58 U B	0.132 J Z	5.15 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.02 U	1.09 U B	1.11 U	0.155 J Z	0.0198 J Z	1.06 U B	0.0553 J Z
1613B	55673-89-7	1,2,3,4,7,8-HPCDF	ng/kg	5.12 U B	0.502 J Z	5.56 U B	0.217 J Z	5.58 U B	0.628 J Z	0.238 J Z
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.12 U B	5.43 U B	5.56 U B	0.297 J Z	5.58 U B	0.739 J Z	5.15 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.12 U B	5.43 U B	5.56 U B	0.184 J Z	5.58 U B	2.33 J Z	5.15 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.12 U B	5.43 U B	5.56 U B	0.216 J Z	5.58 U B	0.368 J Z	0.110 J Z
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.12 U B	0.443 J Z	0.386 J Z	0.541 J Z	0.346 J Z	0.723 J Z	0.350 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.12 U B	5.43 U B	5.56 U B	0.191 J Z	5.58 U B	0.319 J Z	5.15 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.12 U	2.40 J Z	5.56 U B	1.73 J Z	0.310 J Z	3.29 J Z	1.06 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.12 U B	0.208 J Z	5.56 U B	5.54 U B	5.58 U B	0.846 J Z	0.326 J Z
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.12 U B	0.304 J Z	0.781 J Z	0.191 J Z	0.669 J Z	0.283 J Z	5.15 U B

U - Compound not detected above the reporting limit  
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R - Result is rejected

		Sample Name	SL-594-SA5C-SB-0.0-0.5	SL-594-SA5C-SB-5.0-6.0	SL-594-SA5C-SB-9.0-10.0	SL-595-SA5C-SB-1.0-2.0	SL-595-SA5C-SB-2.0-3.0	SL-596-SA5C-SB-2.0-3.0	SL-596-SA5C-SB-3.0-4.0	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	06/21/2012	06/21/2012	06/21/2012	05/07/2012	05/07/2012	05/03/2012	05/03/2012	
		SDG	PH015	PH015	PH015	PH005	PH005	PH005	PH005	
		Start Depth	0	5	9	1	2	2	3	
		End Depth	0.5	6	10	2	3	3	4	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0604 J Z	0.0458 J Z	0.117 J Z	1.10 U B	1.16 U B	0.977 J Z	1.10 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.719 J Z	0.224 J Z	0.898 J Z	2.50 J Z	1.50 J Z	34.7	1.48 J Z
1613B	3268-87-9	OCDD	ng/kg	335	11.0 U B	12.0 U B	1210	328	16900 J *#	303
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	21	5.51 U B	5.98 U B	208	49.2	2720 J *#	56.3
1613B	39001-02-0	OCDF	ng/kg	3.14 J Z	11.0 U B	12.0 U B	4.92 J Z	2.96 J Z	46.6	1.26 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.238 J Z	5.51 U B	5.98 U B	0.634 J Z	0.331 J Z	9.33	0.288 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.33 U B	5.51 U B	0.293 J Z	0.304 J Z	0.328 J Z	5.35 J Z	0.412 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.131 J Z	0.0609 J Z	0.170 J Z	1.10 U B	0.182 J Z	0.648 J Z	1.10 U B
1613B	55673-89-7	1,2,3,4,7,8-HPCDF	ng/kg	5.33 U B	5.51 U B	5.98 U B	0.308 J Z	5.81 U B	2.35 J Z	5.51 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	0.743 J Z	5.51 U B	5.98 U B	0.303 J Z	0.484 J Z	2.76 J Z	0.235 J Z
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.33 U B	0.186 J Z	0.491 J Z	0.254 J Z	0.432 J Z	0.908 J Z	0.488 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.303 J Z	5.51 U B	0.284 J Z	0.213 J Z	0.225 J Z	1.88 J Z	5.51 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.806 J Z	5.51 U B	0.510 J Z	3.81 J Z	1.50 J Z	58.1	1.72 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	0.381 J Z	5.51 U B	5.98 U B	0.259 J Z	0.236 J Z	2.54 J Z	5.51 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	1.65 J Z	5.51 U B	5.98 U B	1.89 J Z	1.24 J Z	22.4	0.561 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	0.209 J Z	5.51 U B	0.256 J Z	0.328 J Z	0.472 J Z	3.23 J Z	0.209 J Z
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.365 J Z	0.174 J Z	0.854 J Z	0.475 J Z	1.03 J Z	0.705 J Z	1.26 J Z

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

		Sample Name	SL-599-SA5C-SB-0.0-0.5	SL-599-SA5C-SB-4.0-5.0	SL-600-SA5C-SB-0.0-0.5	SL-600-SA5C-SB-4.0-5.0	SL-602-SA5C-SB-0.0-0.5	SL-602-SA5C-SB-4.0-5.0	SL-603-SA5C-SB-0.0-0.5	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	05/02/2012	06/21/2012	05/02/2012	06/21/2012	05/02/2012	06/21/2012	05/03/2012	
		SDG	PH004	PH015	PH004	PH015	PH005	PH015	PH005	
		Start Depth	0	4	0	4	0	4	0	
		End Depth	0.5	5	0.5	5	0.5	5	0.5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0310 J Z	1.06 U	0.0304 J Z	1.05 U	1.06 U B	0.996 U	1.07 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	1.32 J Z	5.32 U B	1.49 J Z	0.239 J Z	5.76	4.98 U B	1.33 J Z
1613B	3268-87-9	OCDD	ng/kg	979	3.74 J Z	178	11.2	2240	9.96 U B	590 J Q
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	97.9	5.32 U B	16.7	2.11 J Z	276	4.98 U B	65.5
1613B	39001-02-0	OCDF	ng/kg	16.9	10.6 U B	5.27 J Z	10.5 U B	29.2	9.96 U B	11.5
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.582 J Z	5.32 U B	0.391 J Z	5.23 U B	3.29 J Z	4.98 U	0.932 J FD, Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.323 J Z	5.32 U	0.338 J Z	5.23 U B	1.83 J Z	4.98 U B	0.353 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.548 J Z	1.06 U	0.203 J Z	0.0905 J Z	0.420 J Z	0.0406 J Z	0.251 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	0.859 J Z	5.32 U B	0.285 J Z	5.23 U B	1.92 J Z	4.98 U B	0.691 J Z
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	1.85 J Z	5.32 U B	4.09 J Z	0.993 J Z	2.31 J Z	4.98 U	0.841 J Z
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	2.88 J Z	5.32 U	0.662 J Z	5.23 U B	2.39 J Z	4.98 U B	1.20 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.878 J Z	5.32 U B	0.932 J Z	0.239 J Z	1.87 J Z	4.98 U B	0.555 J Z
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	2.59 J Z	5.32 U B	2.16 J Z	0.437 J Z	13.4	4.98 U B	2.34 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	1.16 J Z	5.32 U B	1.71 J Z	0.381 J Z	2.35 J Z	4.98 U B	0.687 J Z
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	8.91	5.32 U B	2.56 J Z	0.268 J Z	20.9	4.98 U B	6.04
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	0.947 J Z	5.32 U B	0.657 J Z	5.23 U B	3.17 J Z	4.98 U B	0.941 J Z
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.430 J Z	0.201 J Z	0.675 J Z	5.23 U	1.55 J Z	4.98 U B	0.681 J Z

U - Compound not detected above the reporting limit  
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R - Result is rejected

		Sample Name	SL-903-SA5C-SB-0.0-0.5	SL-603-SA5C-SB-4.0-5.0	SL-606-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-4.0-5.0	SL-607-SA5C-SB-9.0-10.0	SL-611-SA5C-SB-0.0-0.5	
		Sample Type	FD	N	N	N	N	N	N	
		Sample Date	05/03/2012	06/21/2012	05/03/2012	07/11/2012	07/11/2012	07/11/2012	05/31/2012	
		SDG	PH005	PH015	PH005	PH018	PH018	PH018	PH010	
		Start Depth	0	4	0	0	4	9	0	
		End Depth	0.5	5	0.5	0.5	5	10	0.5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.08 U B	1.05 U	1.03 U B	1.12 U	1.10 U	1.07 U	0.0323 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	1.43 J Z	5.25 U B	1.53 J Z	5.60 U B	5.50 U B	5.33 U B	0.299 J Z
1613B	3268-87-9	OCDD	ng/kg	532	14.1	832	30.5	11.0 U B	10.7 U B	271
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	51.6	1.57 J Z	61.8	3.33 J Z	5.50 U B	5.33 U B	15.2
1613B	39001-02-0	OCDF	ng/kg	11.1	10.5 U B	19.2	11.2 U B	11.0 U B	10.7 U B	3.81 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.539 J FD, Z	5.25 U B	0.855 J Z	5.60 U B	5.50 U B	5.33 U B	5.45 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.325 J Z	5.25 U B	0.521 J Z	5.60 U B	5.50 U B	5.33 U B	5.45 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.247 J Z	1.05 U	0.951 J Z	1.12 U	1.10 U	1.07 U	1.09 U B
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	0.918 J Z	5.25 U B	0.692 J Z	5.60 U B	5.50 U B	5.33 U B	5.45 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	0.592 J Z	5.25 U B	1.31 J Z	5.60 U B	5.50 U B	5.33 U B	5.45 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	1.39 J Z	5.25 U B	1.32 J Z	5.60 U B	5.50 U B	5.33 U B	5.45 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.692 J Z	5.25 U B	0.735 J Z	5.60 U B	5.50 U B	5.33 U B	5.45 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	2.15 J Z	5.25 U B	2.32 J Z	0.157 J Z	0.0507 J Z	0.0742 J Z	0.417 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	0.722 J Z	5.25 U B	0.888 J Z	5.60 U B	5.50 U B	5.33 U B	5.45 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	6.45	5.25 U B	7.74	0.326 J Z	5.50 U B	5.33 U B	1.35 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	0.930 J Z	5.25 U B	1.47 J Z	5.60 U B	5.50 U B	5.33 U B	5.45 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.770 J Z	5.25 U B	0.196 J Z	5.60 U B	5.50 U B	5.33 U B	5.45 U B

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

		Sample Name	SL-611-SA5C-SB-5.0-6.0	SL-612-SA5C-SB-0.0-0.5	SL-612-SA5C-SB-4.0-5.0	SL-912-SA5C-SB-4.0-5.0	SL-612-SA5C-SB-7.0-8.0	SL-613-SA5C-SB-0.0-0.5	SL-613-SA5C-SB-4.0-5.0	
		Sample Type	N	N	N	FD	N	N	N	
		Sample Date	05/31/2012	05/03/2012	05/31/2012	05/31/2012	05/31/2012	05/09/2012	05/31/2012	
		SDG	PH010	PH005	PH010	PH010	PH010	PH006	PH010	
		Start Depth	5	0	4	4	7	0	4	
		End Depth	6	0.5	5	5	8	0.5	5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0304 J Z	1.05 U B	1.14 UJ FD	0.0800 J FD, Z	1.21 U	0.0312 J Z	0.0325 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.57 U B	2.85 J Z	0.395 J FD, Z	1.08 J FD, Z	6.04 U B	0.256 J Z	5.32 U B
1613B	3268-87-9	OCDD	ng/kg	4.73 J Z	1400	147 J FD	592 J FD	12.1 U B	59.2	3.50 J Z
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.57 U B	126	11.9 J FD	51.2 J FD	6.04 U B	5.62	5.32 U B
1613B	39001-02-0	OCDF	ng/kg	11.1 U B	25.1	2.95 J FD, Z	10.4 J FD, Z	12.1 U B	1.83 J Z	10.6 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.57 U B	1.49 J Z	5.72 UJ B, FD	0.532 J FD, Z	6.04 U B	0.0813 J Z	5.32 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.57 U B	0.790 J Z	5.72 UJ B, FD	0.322 J FD, Z	6.04 U B	5.04 U B	5.32 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.11 U B	0.648 J Z	1.14 UJ B, FD	0.215 J FD, Z	1.21 U B	0.0544 J Z	1.06 U B
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.57 U B	1.23 J Z	5.72 UJ B, FD	0.397 J FD, Z	6.04 U B	5.04 U B	5.32 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.57 U B	1.83 J Z	5.72 UJ B, FD	5.28 UJ B, FD	6.04 U B	5.04 U B	5.32 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.57 U B	2.61 J Z	5.72 U B	0.312 J Z	6.04 U B	0.154 J Z	5.32 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.57 U B	0.951 J Z	5.72 UJ B, FD	0.391 J FD, Z	6.04 U B	0.0892 J Z	5.32 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.57 U B	5.18 J Z	0.573 J FD, Z	2.20 J FD, Z	6.04 U B	0.271 J Z	5.32 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.57 U B	1.23 J Z	5.72 UJ B, FD	0.555 J FD, Z	6.04 U B	0.115 J Z	5.32 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.57 U B	12.2	1.31 J FD, Z	4.87 J FD, Z	6.04 U B	0.885 J Z	5.32 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.57 U B	1.57 J Z	5.72 UJ B, FD	0.546 J FD, Z	6.04 U B	0.556 J Z	5.32 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.57 U B	0.641 J Z	5.72 U B	5.28 U B	6.04 U B	5.04 U B	5.32 U B

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

		Sample Name	SL-613-SA5C-SB-7.5-8.5	SL-614-SA5C-SB-0.0-0.5	SL-614-SA5C-SB-3.0-4.0	SL-615-SA5C-SB-0.0-0.5	SL-615-SA5C-SB-4.0-5.0	SL-615-SA5C-SB-9.0-10.0	SL-620-SA5C-SB-0.0-0.5
		Sample Type	N	N	N	N	N	N	N
		Sample Date	05/31/2012	05/31/2012	05/31/2012	05/07/2012	06/05/2012	06/05/2012	05/29/2012
		SDG	PH010	PH010	PH010	PH005	PH011	PH011	PH010
		Start Depth	7.5	0	3	0	4	9	0
		End Depth	8.5	0.5	4	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0855 J Z	0.0771 J Z	1.07 U	0.129 J Z	1.12 U	0.0294 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.37 U B	0.339 J Z	5.35 U B	2.56 J Z	5.60 U B	5.43 U B
1613B	3268-87-9	OCDD	ng/kg	10.7 U B	67.5	10.7 U B	948	9.67 J Z	37.7
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.37 U B	7.57	5.35 U B	77.8	5.60 U B	4.18 J Z
1613B	39001-02-0	OCDF	ng/kg	10.7 U B	2.92 J Z	10.7 U B	21	0.322 J Z	1.15 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.37 U B	5.04 U B	5.35 U B	1.27 J Z	5.60 U B	5.43 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.37 U B	5.04 U B	5.35 U B	0.872 J Z	0.0285 J Z	5.43 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.07 U B	1.01 U B	1.07 U B	0.288 J Z	0.0226 J Z	1.09 U
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.37 U B	5.04 U B	5.35 U B	0.909 J Z	5.60 U B	5.43 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.37 U B	5.04 U B	5.35 U B	1.32 J Z	5.60 U B	5.43 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.37 U B	5.04 U B	5.35 U B	1.47 J Z	5.60 U B	5.43 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.37 U B	5.04 U B	5.35 U B	0.887 J Z	5.60 U B	5.43 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.37 U B	0.389 J Z	5.35 U B	3.12 J Z	5.60 U B	5.43 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.37 U B	5.04 U B	5.35 U B	0.952 J Z	5.60 U B	5.43 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.37 U B	1.37 J Z	5.35 U B	12.8	5.60 U B	0.467 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.37 U B	0.402 J Z	5.35 U B	1.43 J Z	5.60 U B	5.43 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.37 U B	5.04 U B	5.35 U B	0.847 J Z	5.60 U B	5.43 U B

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		Sample Name	SL-621-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-4.0-5.0	SL-623-SA5C-SB-9.0-10.0	SL-628-SA5C-SB-11.5-12.5	SL-630-SA5C-SB-8.0-9.0	SL-640-SA5C-SB-5.0-6.0	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	05/30/2012	04/25/2012	07/09/2012	07/09/2012	06/20/2012	06/20/2012	07/10/2012	
		SDG	PH010	PH003	PH017	PH017	PH014	PH014	PH017	
		Start Depth	0	0	4	9	11.5	8	5	
		End Depth	0.5	0.5	5	10	12.5	9	6	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0449 J Z	1.02 U B	0.0473 J Z	0.0879 J Z	1.09 U	0.0669 J Z	0.0491 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.25 U B	1.20 J Z	0.192 J Z	0.356 J Z	0.810 J Z	0.394 J Z	5.42 U
1613B	3268-87-9	OCDD	ng/kg	17.7	517	49.4	78.6	154	97	10.8 U B
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	2.46 J Z	49.3	4.84 J Z	7.94	10.1	5.96	5.42 U B
1613B	39001-02-0	OCDF	ng/kg	0.831 J Z	13.7	1.05 J Z	2.48 J Z	2.41 J Z	2.05 J Z	0.175 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.25 U B	0.452 J Z	0.0796 J Z	0.134 J Z	0.0816 J Z	0.133 J Z	5.42 U
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.25 U B	0.236 J Z	5.34 U B	5.19 U B	0.118 J Z	0.101 J Z	5.42 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.05 U B	0.109 J Z	0.0762 J Z	1.04 U	1.09 U B	1.14 U B	1.08 U
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.25 U B	0.403 J Z	0.0741 J Z	0.0898 J Z	0.188 J Z	5.69 U B	5.42 U
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.25 U B	0.747 J Z	0.302 J Z	5.19 U B	5.43 U B	5.69 U B	5.42 U
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.25 U B	0.391 J Z	0.366 J Z	0.278 J Z	0.352 J Z	0.288 J Z	5.42 U
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.25 U B	0.464 J Z	0.131 J Z	0.112 J Z	5.43 U B	5.69 U B, I	5.42 U
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.25 U B	2.02 J Z	0.301 J Z	0.392 J Z	0.763 J Z	0.429 J Z	0.0387 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.25 U B	0.616 J Z	5.34 U B	5.19 U B	0.192 J Z	0.158 J Z	5.42 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	0.626 J Z	6.03	0.630 J Z	1.11 J Z	1.07 J Z	1.05 J Z	5.42 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.25 U B	0.547 J Z	5.34 U B	5.19 U B	0.185 J Z	0.207 J Z	5.42 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.25 U B	0.487 J Z	5.34 U B	5.19 U B	0.623 J Z	0.260 J Z	5.42 U B

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		Sample Name	SL-640-SA5C-SB-10.0-11.0	SL-640-SA5C-SB-15.0-16.0	SL-640-SA5C-SB-19.0-20.0	SL-641-SA5C-SB-4.0-5.0	SL-641-SA5C-SB-9.0-10.0	SL-641-SA5C-SB-14.0-15.0
		Sample Type	N	N	N	N	N	N
		Sample Date	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
		SDG	PH018	PH018	PH018	PH018	PH018	PH018
		Start Depth	10	15	19	4	9	14
		End Depth	11	16	20	5	10	15
Analytic Method	CAS Number	Chemical Name	Unit					
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.12 U B	1.13 U B	1.19 U	1.07 U B	1.11 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.61 U B	5.65 U B	5.95 U B	5.37 U B	5.55 U B
1613B	3268-87-9	OCDD	ng/kg	2.48 J Z	4.39 J Z	11.9 U B	46.1	7.90 J Z
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.61 U B	5.65 U B	5.95 U B	4.64 J Z	5.55 U B
1613B	39001-02-0	OCDF	ng/kg	11.2 U B	11.3 U B	11.9 U B	1.94 J Z	11.1 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.61 U B	5.65 U B	5.95 U B	5.37 U B	5.55 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.61 U B	5.65 U B	5.95 U B	5.37 U B	5.55 U
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.12 U	0.0222 J Z	1.19 U	0.0316 J Z	1.11 U
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.61 U B	5.65 U B	5.95 U B	5.37 U B	5.55 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.61 U B	5.65 U B	5.95 U B	5.37 U B	5.55 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.61 U B	5.65 U	5.95 U B	5.37 U B	5.55 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.61 U B	5.65 U B	5.95 U B	5.37 U B	5.55 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.0685 J Z	0.0581 J Z	0.0352 J Z	0.229 J Z	0.0647 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.61 U B	5.65 U B	5.95 U B	5.37 U B	5.55 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.61 U B	5.65 U B	5.95 U B	0.669 J Z	5.55 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.61 U B	5.65 U B	5.95 U B	5.37 U B	5.55 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.61 U B	5.65 U B	5.95 U B	5.37 U B	5.55 U B

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		Sample Name	SL-641-SA5C-SB-18.5-19.5	SL-642-SA5C-SB-4.0-5.0	SL-642-SA5C-SB-9.0-10.0	SL-642-SA5C-SB-14.0-15.0	SL-642-SA5C-SB-17.5-18.5	SL-670-SA5C-SB-0.0-0.5	
		Sample Type	N	N	N	N	N	N	
		Sample Date	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	06/19/2012	
		SDG	PH018	PH018	PH018	PH018	PH018	PH014	
		Start Depth	18.5	4	9	14	17.5	0	
		End Depth	19.5	5	10	15	18.5	0.5	
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.11 U	1.06 U	1.04 U B	1.10 U B	1.07 U B	0.118 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.55 U B	5.32 U B	5.21 U B	5.48 U B	5.35 U B	5.28 U B
1613B	3268-87-9	OCDD	ng/kg	11.1 U B	10.6 U B	6.75 J Z	6.52 J Z	10.7 U B	107
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.55 U B	5.32 U B	5.21 U B	5.48 U B	5.35 U B	21.5
1613B	39001-02-0	OCDF	ng/kg	11.1 U B	10.6 U B	10.4 U B	11.0 U B	10.7 U B	2.78 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.55 U B	5.32 U B	5.21 U B	5.48 U B	5.35 U	5.28 U
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.55 U B	5.32 U B	0.258 J Z	5.48 U B	5.35 U B	0.0553 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.0210 J Z	1.06 U	0.0726 J Z	0.0214 J Z	1.07 U	1.06 U B
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.55 U B	5.32 U B	5.21 U B	5.48 U B	5.35 U B	5.28 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.55 U B	5.32 U	5.21 U B	5.48 U B	5.35 U B	5.28 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.55 U B	5.32 U B	0.250 J Z	5.48 U B	5.35 U B	5.28 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.55 U B	5.32 U B	0.139 J Z	5.48 U B	5.35 U B	5.28 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.0588 J Z	0.103 J Z	0.219 J Z	0.0902 J Z	0.0389 J Z	5.28 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.55 U B	5.32 U B	5.21 U B	5.48 U B	5.35 U B	0.0589 J Z
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.55 U B	5.32 U B	5.21 U B	5.48 U B	5.35 U B	0.714 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.55 U B	5.32 U B	5.21 U B	5.48 U B	5.35 U B	5.28 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.55 U B	5.32 U B	5.21 U B	5.48 U B	5.35 U B	5.28 U B

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		Sample Name	SL-670-SA5C-SB-4.0-5.0	SL-671-SA5C-SB-0.0-0.5	SL-671-SA5C-SB-2.0-3.0	SL-672-SA5C-SB-0.0-0.5	SL-672-SA5C-SB-4.0-5.0	SL-673-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-0.0-0.5
		Sample Type	N	N	N	N	N	N	N
		Sample Date	06/19/2012	05/08/2012	05/23/2012	05/24/2012	05/24/2012	05/08/2012	05/23/2012
		SDG	PH014	PH005	PH009	PH009	PH009	PH005	PH008
		Start Depth	4	0	2	0	4	0	0
		End Depth	5	0.5	3	0.5	5	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.04 U	0.204 J Z	1.07 U B	0.132 J Z	1.13 U B	1.09 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.20 U B	13.8	3.92 J Z	1.04 J Z	5.65 U B	4.83 J Z
1613B	3268-87-9	OCDD	ng/kg	10.4 U B	6540 J *#	2290	232	13.4	1650
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.20 U B	693	263	26.4	1.74 J Z	201
1613B	39001-02-0	OCDF	ng/kg	10.4 U B	163	51.1	9.19 J Z	11.3 U B	58.2
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.20 U	7.49	2.24 J Z	0.694 J Z	5.65 U B	2.99 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.308 J Z	3.25 J Z	0.835 J Z	0.535 J Z	0.0730 J Z	1.28 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.233 J Z	0.701 J Z	0.217 J Z	0.236 J Z	1.13 U B	1.01 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.20 U B	4.93 J Z	1.80 J Z	0.438 J Z	5.65 U B	2.06 J Z
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.20 U B	2.29 J Z	0.378 J Z	0.693 J Z	5.65 U B	3.76 J Z
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.20 U B	5.68	1.24 J Z	0.751 J Z	5.65 U B	3.87 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.20 U B	2.55 J Z	0.994 J Z	0.464 J Z	5.65 U B	1.70 J Z
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.20 U B	23.7	8.08	1.44 J Z	0.182 J Z	8.14
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	0.158 J Z	3.46 J Z	1.21 J Z	0.497 J Z	5.65 U B	1.83 J Z
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.20 U B	67.2	21.8	5.71	5.65 U B	24.9
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.20 U B	4.37 J Z	1.46 J Z	0.614 J Z	5.65 U B	4.03 J Z
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.20 U B	0.690 J Z	5.33 U B	0.311 J Z	5.65 U B	0.636 J Z

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

		Sample Name	SL-674-SA5C-SB-2.5-3.5	SL-675-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-4.0-5.0	SL-976-SA5C-SB-4.0-5.0	SL-677-SA5C-SB-0.0-0.5	SL-677-SA5C-SB-4.0-5.0	
		Sample Type	N	N	N	N	FD	N	N	
		Sample Date	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/24/2012	05/24/2012	
		SDG	PH008	PH008	PH009	PH009	PH009	PH009	PH009	
		Start Depth	2.5	0	0	4	4	0	4	
		End Depth	3.5	0.5	0.5	5	5	0.5	5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.04 U B	1.02 U B	1.09 U B	1.11 UJ B, FD	0.114 J FD, Z	1.13 U B	1.10 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.20 U B	5.10 U B	0.354 J Z	5.57 U B	0.211 J Z	5.64 U B	5.51 U B
1613B	3268-87-9	OCDD	ng/kg	10.4 U B	47.4	142	50.3	33.3	17	2.67 J Z
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.20 U B	4.32 J Z	13.6	4.74 J Z	3.51 J Z	1.92 J Z	5.51 U B
1613B	39001-02-0	OCDF	ng/kg	10.4 U B	10.2 U B	2.97 J Z	1.41 J Z	1.17 J Z	11.3 U B	11.0 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.20 U B	5.10 U B	0.226 J Z	5.57 U B	0.157 J Z	5.64 U B	5.51 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.20 U B	5.10 U B	0.123 J Z	0.0942 J FD, Z	0.281 J FD, Z	0.232 J Z	0.0488 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.0273 J Z	0.0301 J Z	1.09 U B	1.11 UJ B, FD	0.102 J FD, Z	1.13 U B	1.10 U B
1613B	55673-89-7	1,2,3,4,7,8-HPCDF	ng/kg	5.20 U B	5.10 U B	5.43 U B	5.57 UJ B, FD	5.52 UJ B, FD	5.64 U B	5.51 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.20 U B	5.10 U B	5.43 U B	5.57 UJ B, FD	5.52 UJ B, FD	5.64 U B	5.51 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.20 U B	5.10 U B	0.325 J Z	5.57 UJ B, FD	0.335 J FD, Z	0.288 J Z	5.51 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.20 U B	5.10 U B	0.136 J Z	5.57 UJ B, FD	0.162 J FD, Z	0.165 J Z	5.51 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.20 U B	5.10 U B	0.501 J Z	0.240 J Z	0.274 J Z	0.172 J Z	0.0482 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.20 U B	5.10 U B	5.43 U B	5.57 U B	5.52 U B	5.64 U B	5.51 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.20 UJ B, I	0.303 J Z	1.70 J Z	0.662 J Z	0.558 J Z	0.302 J Z	5.51 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.20 U B	5.10 U B	0.305 J Z	5.57 UJ B, FD	0.165 J FD, Z	0.143 J Z	5.51 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.0678 J Z	5.10 U B	5.43 U B	5.57 UJ B, FD	5.52 UJ B, FD	5.64 U B	5.51 U B

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R - Result is rejected

		Sample Name	SL-678-SA5C-SB-0.0-0.5	SL-678-SA5C-SB-2.5-3.5	SL-679-SA5C-SB-0.0-0.5	SL-680-SA5C-SB-0.0-0.5	SL-681-SA5C-SB-0.0-0.5	SL-681-SA5C-SB-4.0-5.0	SL-681-SA5C-SB-7.5-8.5
		Sample Type	N	N	N	N	N	N	N
		Sample Date	05/23/2012	05/23/2012	04/12/2012	04/17/2012	04/12/2012	05/23/2012	05/23/2012
		SDG	PH008	PH008	PH001	PH001	PH001	PH008	PH008
		Start Depth	0	2.5	0	0	0	4	7.5
		End Depth	0.5	3.5	0.5	0.5	0.5	5	8.5
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.09 U B	1.06 U B	1.10 U B	1.15 U B	1.11 U B	1.07 U
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.44 U B	5.32 U B	1.93 J Z	1.34 J Z	1.08 J Z	5.37 U B
1613B	3268-87-9	OCDD	ng/kg	7.90 J Z	10.6 U B	834	646	139	10.7 U B
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.44 U B	5.32 U B	82.9	83.2	33.3	5.37 U B
1613B	39001-02-0	OCDF	ng/kg	10.9 U B	10.6 U B	36.1	26.8	18.7	10.7 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.44 U	5.32 U	1.10 J Z	0.753 J Z	2.02 J Z	5.37 U
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.44 U B	5.32 U B	0.706 J Z	0.306 J Z	5.53 U B	5.37 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.0166 J Z	1.06 U	0.231 J Z	0.411 J Z	0.138 J Z	1.07 U
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.44 U B	5.32 U	1.09 J Z	0.880 J Z	0.523 J Z	5.37 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.44 U B	5.32 U B	0.547 J Z	0.845 J Z	5.53 U B	5.37 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.44 U B	5.32 U B	0.894 J Z	1.34 J Z	0.714 J Z	5.37 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.44 U B	5.32 U B	0.636 J Z	0.469 J Z	0.387 J Z	5.37 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.44 U B	5.32 U B	2.66 J Z	3.27 J Z	3.04 J Z	5.37 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.44 U B	5.32 U B	0.716 J Z	0.584 J Z	0.544 J Z	5.37 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.44 U B	5.32 U B	11.6	9.23	21.2	5.37 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.44 U B	5.32 U B	0.892 J Z	0.697 J Z	0.413 J Z	5.37 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.44 U B	5.32 U B	0.343 J Z	0.530 J Z	0.232 J Z	5.37 U B

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R - Result is rejected

		Sample Name	SL-682-SA5C-SB-0.0-0.5	SL-682-SA5C-SB-4.0-5.0	SL-682-SA5C-SB-9.0-10.0	SL-683-SA5C-SB-0.0-0.5	SL-683-SA5C-SB-4.0-5.0	SL-683-SA5C-SB-7.0-8.0	SL-684-SA5C-SB-0.0-0.5
		Sample Type	N	N	N	N	N	N	N
		Sample Date	05/22/2012	05/22/2012	05/22/2012	04/12/2012	06/13/2012	06/13/2012	04/12/2012
		SDG	PH008	PH008	PH008	PH001	PH013	PH013	PH001
		Start Depth	0	4	9	0	4	7	0
		End Depth	0.5	5	10	0.5	5	8	0.5
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.07 U B	1.13 U	1.10 U B	1.12 U B	1.05 U	1.12 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.877 J Z	0.102 J Z	5.49 U	1.30 J Z	5.25 U B	5.61 U B
1613B	3268-87-9	OCDD	ng/kg	64.3	11.3 U B	11.0 U B	473	32.3	20
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	8.51	5.65 U B	5.49 U B	58.1	4.01 J Z	2.45 J Z
1613B	39001-02-0	OCDF	ng/kg	3.07 J Z	11.3 U B	11.0 U B	16.3	1.73 J Z	0.804 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.783 J Z	5.65 U B	5.49 U	0.960 J Z	5.25 U B	5.61 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.265 J Z	5.65 U B	5.49 U	0.437 J Z	5.25 U B	5.61 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.104 J Z	1.13 U	0.0164 J Z	0.408 J Z	1.05 U	0.0367 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	0.216 J Z	5.65 U B	5.49 U	0.969 J Z	5.25 U B	5.61 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	0.312 J Z	5.65 U B	5.49 U B	0.598 J Z	5.25 U B	5.61 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.440 J Z	5.65 U B	5.49 U B	1.13 J Z	5.25 U B	5.61 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.246 J Z	5.65 U B	5.49 U B	0.802 J Z	5.25 U B	5.61 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	1.24 J Z	5.65 U B	5.49 U B	2.84 J Z	5.25 U B	5.61 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	0.233 J Z	5.65 U	5.49 U B	0.968 J Z	5.25 U B	5.61 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	2.83 J Z	5.65 U B	5.49 U B	10	1.14 J Z	0.511 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	0.348 J Z	5.65 U B	5.49 U B	1.20 J Z	5.25 U B	5.61 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.557 J Z	5.65 U B	5.49 U B	0.318 J Z	5.25 U B	5.61 U B

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R - Result is rejected

		Sample Name	SL-684-SA5C-SB-2.5-3.5	SL-685-SA5C-SB-0.0-0.5	SL-685-SA5C-SB-4.0-5.0	SL-685-SA5C-SB-7.0-8.0	SL-686-SA5C-SB-0.0-0.5	SL-686-SA5C-SB-4.0-5.0	SL-686-SA5C-SB-9.0-10.0
		Sample Type	N	N	N	N	N	N	N
		Sample Date	06/13/2012	04/12/2012	06/13/2012	06/13/2012	04/12/2012	05/17/2012	05/17/2012
		SDG	PH013	PH001	PH013	PH013	PH001	PH007	PH007
		Start Depth	2.5	0	4	7	0	4	9
		End Depth	3.5	0.5	5	8	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.06 U	1.11 U B	0.994 U B	1.09 U	1.10 U B	1.09 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.28 U B	0.530 J Z	0.977 J Z	5.46 U B	0.837 J Z	0.114 J Z
1613B	3268-87-9	OCDD	ng/kg	22.2	160	250	10.9 U B	1040	10.7 J Z
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	2.37 J Z	17.8	31.5	5.46 U B	61.2	5.51 U B
1613B	39001-02-0	OCDF	ng/kg	1.12 J Z	7.14 J Z	16.4	10.9 U B	15.3	11.0 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.28 U B	0.341 J Z	0.728 J Z	5.46 U	0.331 J Z	5.51 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.28 U B	5.57 U B	4.97 U B	5.46 U	5.51 U B	5.51 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.06 U	0.0889 J Z	0.108 J Z	0.0229 J Z	0.123 J Z	1.10 U B
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.28 U B	0.359 J Z	0.545 J Z	5.46 U B	1.04 J Z	5.51 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.28 U B	5.57 U B	0.280 J Z	5.46 U B	0.592 J Z	5.51 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.210 J Z	0.336 J Z	0.495 J Z	5.46 U B	1.04 J Z	5.51 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.28 U B	0.321 J Z	0.496 J Z	5.46 U B	0.550 J Z	5.51 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.28 U B	0.956 J Z	1.67 J Z	5.46 U B	1.90 J Z	5.51 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.28 U B	5.57 U B	0.607 J Z	5.46 U B	0.713 J Z	5.51 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	0.579 J Z	5.56 J Z	12.4	5.46 U B	7.14	5.51 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.28 U B	0.372 J Z	0.549 J Z	5.46 U B	0.615 J Z	5.51 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.28 U B	0.236 J Z	0.300 J Z	5.46 U	0.285 J Z	5.51 U B

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R - Result is rejected

		Sample Name	SL-687-SA5C-SB-0.0-0.5	SL-687-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-0.0-0.5	SL-688-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-9.0-10.0	SL-689-SA5C-SB-0.0-0.5	SL-689-SA5C-SB-4.0-5.0
		Sample Type	N	N	N	N	N	N	N
		Sample Date	04/16/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012	04/16/2012	06/12/2012
		SDG	PH001	PH013	PH001	PH013	PH013	PH001	PH013
		Start Depth	0	4	0	4	9	0	4
		End Depth	0.5	5	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.18 U B	1.03 U B	1.12 U B	1.07 U B	1.09 U B	1.21 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.357 J Z	0.672 J Z	0.845 J Z	5.35 U B	5.46 U B	0.323 J Z
1613B	3268-87-9	OCDD	ng/kg	169	344	312	40.5	10.9 U B	58
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	16.5	32.5	31.1	2.86 J Z	5.46 U B	5.93 J Z
1613B	39001-02-0	OCDF	ng/kg	8.92 J Z	14.8	11.5	0.923 J Z	10.9 U B	2.12 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.92 U B	0.345 J Z	0.396 J Z	5.35 U B	5.46 U B	6.04 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.92 U B	0.284 J Z	5.58 U B	5.35 U B	5.46 U	6.04 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.0475 J Z	0.0845 J Z	0.328 J Z	1.07 U	1.09 U	1.21 U
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.92 U B	0.456 J Z	0.456 J Z	5.35 U B	5.46 U B	6.04 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.92 U B	5.15 U B	0.997 J Z	5.35 U B	5.46 U B	6.04 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.92 U B	0.341 J Z	0.725 J Z	5.35 U B	5.46 U B	6.04 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.92 U B	0.325 J Z	0.604 J Z	5.35 U B	5.46 U B	6.04 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.628 J Z	1.23 J Z	1.20 J Z	0.248 J Z	5.46 U B	0.318 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.92 U B	0.352 J Z	0.834 J Z	5.35 U B	5.46 U B	6.04 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	2.81 J Z	4.86 J Z	4.90 J Z	0.499 J Z	5.46 U B	0.878 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.92 U B	0.335 J Z	1.02 J Z	5.35 U B	5.46 U B	6.04 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.236 J Z	0.182 J Z	0.235 J Z	5.35 U B	5.46 U B	0.192 J Z

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

		Sample Name	SL-689-SA5C-SB-7.5-8.5	SL-690-SA5C-SB-0.0-0.5	SL-690-SA5C-SB-3.5-4.5	SL-691-SA5C-SB-0.0-0.5	SL-692-SA5C-SB-0.0-0.5	SL-692-SA5C-SB-5.0-6.0	SL-693-SA5C-SB-0.0-0.5	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	06/12/2012	04/16/2012	06/12/2012	04/16/2012	04/16/2012	06/12/2012	04/16/2012	
		SDG	PH013	PH001	PH013	PH001	PH001	PH013	PH001	
		Start Depth	7.5	0	3.5	0	0	5	0	
		End Depth	8.5	0.5	4.5	0.5	0.5	6	0.5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.05 U	1.14 U B	1.06 U	1.11 U	1.20 U B	1.06 U B	1.22 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.24 U B	1.82 J Z	0.351 J Z	5.53 U B	6.02 U B	5.28 U B	6.09 U B
1613B	3268-87-9	OCDD	ng/kg	10.5 U B	750	10.7	89.1	8.09 J Z	4.20 J Z	15.6
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.24 U B	80.3	5.30 U B	9.5	6.02 U B	5.28 U B	1.65 J Z
1613B	39001-02-0	OCDF	ng/kg	10.5 U B	14.9	10.6 U B	1.49 J Z	12.0 U B	10.6 U B	12.2 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.24 U	0.899 J Z	5.30 U B	5.53 U B	6.02 U	5.28 U	6.09 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.24 U B	0.550 J Z	5.30 U B	5.53 U B	6.02 U B	5.28 U B	6.09 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.05 U	0.338 J Z	1.06 U	1.11 U	1.20 U	0.0194 J Z	0.0447 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.24 U B	0.985 J Z	5.30 U B	5.53 U B	6.02 U B	5.28 U B	6.09 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.24 U B	1.05 J Z	5.30 U B	5.53 U B	6.02 U B	5.28 U B	6.09 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.24 U B	0.590 J Z	5.30 U B	5.53 U B	6.02 U B	5.28 U B	6.09 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.24 U B	0.775 J Z	5.30 U B	5.53 U B	6.02 U B	5.28 U B	6.09 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.24 U B	2.90 J Z	0.355 J Z	0.320 J Z	6.02 U B	5.28 U B	6.09 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.24 U B	0.999 J Z	5.30 U B	5.53 U B	6.02 U B	5.28 U B	6.09 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.24 U B	9.56	5.30 U B	0.950 J Z	6.02 U B	5.28 U B	6.09 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.24 U B	0.878 J Z	5.30 U B	5.53 U B	6.02 U B	5.28 U B	6.09 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.24 U B	0.720 J Z	5.30 U B	0.184 J Z	0.217 J Z	5.28 U	0.166 J Z

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

		Sample Name	SL-693-SA5C-SB-4.0-5.0	SL-693-SA5C-SB-9.0-10.0	SL-694-SA5C-SB-0.0-0.5	SL-694-SA5C-SB-4.0-5.0	SL-694-SA5C-SB-9.0-10.0	SL-702-SA5C-SB-0.0-0.5	SL-702-SA5C-SB-4.0-5.0	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	06/12/2012	06/12/2012	05/24/2012	05/24/2012	05/24/2012	04/26/2012	06/18/2012	
		SDG	PH013	PH013	PH009	PH009	PH009	PH003	PH014	
		Start Depth	4	9	0	4	9	0	4	
		End Depth	5	10	0.5	5	10	0.5	5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.11 U B	1.07 U B	1.15 U	1.08 U B	1.13 U B	1.03 U B	0.0832 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.422 J Z	0.337 J Z	5.73 U B	5.39 U B	5.65 U B	0.400 J Z	5.61 U B
1613B	3268-87-9	OCDD	ng/kg	49.2	77.2	2.81 J Z	10.8 U B	3.52 J Z	53.5	5.17 J Z
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	4.41 J Z	6.41	5.73 U B	5.39 U B	5.65 U B	6.1	5.61 U B
1613B	39001-02-0	OCDF	ng/kg	1.31 J Z	1.79 J Z	11.5 U B	10.8 U B	11.3 U B	2.41 J Z	11.2 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.54 U B	5.34 U B	5.73 U B	5.39 U B	5.65 U	5.17 U B	0.0823 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.215 J Z	0.250 J Z	0.0236 J Z	0.0393 J Z	0.0294 J Z	0.0810 J Z	0.132 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.0703 J Z	0.0811 J Z	1.15 U B	1.08 U	1.13 U B	0.0203 J Z	1.12 U B
1613B	55673-89-7	1,2,3,4,7,8-HPCDF	ng/kg	5.54 U B	5.34 U B	5.73 U B	5.39 U B	5.65 U B	5.17 U B	5.61 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.54 U B	0.259 J Z	5.73 U B	5.39 U B	5.65 U B	5.17 U B	5.61 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.417 J Z	0.384 J Z	5.73 U B	5.39 U B	5.65 U B	5.17 U B	0.200 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.159 J Z	0.208 J Z	5.73 U B	5.39 U B	5.65 U B	5.17 U B	5.61 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.327 J Z	0.395 J Z	0.0520 J Z	0.0336 J Z	0.0687 J Z	0.388 J Z	5.61 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.54 U B	5.34 U B	5.73 U B	5.39 U B	5.65 U B	0.122 J Z	0.0852 J Z
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	0.695 J Z	0.731 J Z	5.73 U B	5.39 U B	5.65 U B	1.02 J Z	5.61 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.54 U B	5.34 U B	5.73 U B	5.39 U B	5.65 U B	5.17 U B	0.153 J Z
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.408 J Z	0.191 J Z	5.73 U B	5.39 U B	5.65 U B	0.190 J Z	0.233 J Z

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

		Sample Name	SL-702-SA5C-SB-9.0-10.0	SL-704-SA5C-SB-0.0-0.5	SL-704-SA5C-SB-4.0-5.0	SL-704-SA5C-SB-9.0-10.0	SL-705-SA5C-SB-0.0-0.5	SL-705-SA5C-SB-4.0-5.0	SL-705-SA5C-SB-9.0-10.0
		Sample Type	N	N	N	N	N	N	N
		Sample Date	06/18/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012
		SDG	PH014	PH009	PH009	PH009	PH009	PH009	PH009
		Start Depth	9	0	4	9	0	4	9
		End Depth	10	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0495 J Z	1.12 U B	1.12 U B	1.09 U B	1.13 U	1.14 U
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.31 U B	0.188 J Z	5.61 U B	5.45 U B	5.66 U B	5.69 U B
1613B	3268-87-9	OCDD	ng/kg	3.29 J Z	201	11.2 U B	10.9 U B	55.9	11.3 U B
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.31 U B	16.5	5.61 U B	5.45 U B	4.80 J Z	5.69 U B
1613B	39001-02-0	OCDF	ng/kg	10.6 U B	1.72 J Z	11.2 U B	10.9 U B	1.20 J Z	11.4 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.0507 J Z	5.60 U B	5.61 U B	5.45 U B	5.66 U B	5.69 U
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.0906 J Z	0.0341 J Z	5.61 U	0.134 J Z	0.0388 J Z	5.69 U
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.06 U B	1.12 U B	1.12 U B	1.09 U B	1.13 U B	1.14 U B
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.31 U B	5.60 U B	5.61 U B	5.45 U B	5.66 U B	5.69 U
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.31 U B	5.60 U B	5.61 U B	5.45 U B	5.66 U B	5.69 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.31 U B	5.60 U B	5.61 U B	0.124 J Z	0.137 J Z	5.69 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.31 U B	5.60 U B	5.61 U B	5.45 U B	5.66 U B	5.69 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.31 U B	0.306 J Z	0.0312 J Z	0.0722 J Z	0.222 J Z	0.0466 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	0.0462 J Z	5.60 U B	5.61 U B	5.45 U B	5.66 U B	5.69 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.31 U B	0.703 J Z	5.61 U B	5.45 U B	0.671 J Z	5.69 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.31 U B	5.60 U B	5.61 U B	5.45 U B	5.66 U B	5.69 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.31 U B	5.60 U B	5.61 U B	5.45 U B	5.66 U B	5.69 U B

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

		Sample Name	SL-708-SA5C-SB-0.0-0.5	SL-711-SA5C-SB-0.0-0.5	SL-711-SA5C-SB-4.0-5.0	SL-711-SA5C-SB-9.0-10.0	SL-712-SA5C-SB-0.0-0.5	SL-712-SA5C-SB-4.0-5.0	SL-712-SA5C-SB-9.0-10.0	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	04/26/2012	04/26/2012	06/14/2012	06/14/2012	04/30/2012	06/14/2012	06/14/2012	
		SDG	PH003	PH003	PH014	PH014	PH004	PH014	PH014	
		Start Depth	0	0	4	9	0	4	9	
		End Depth	0.5	0.5	5	10	0.5	5	10	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.01 U B	1.04 U B	0.0877 J Z	1.10 U	0.0237 J Z	0.0446 J Z	0.0601 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.915 J Z	0.673 J Z	0.471 J Z	5.50 U B	0.711 J Z	0.855 J Z	5.37 U B
1613B	3268-87-9	OCDD	ng/kg	276	439	136	2.65 J Z	297	475	10.7 U B
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	28.4	47.4	13.3	5.50 U B	24.5	33.6	5.37 U B
1613B	39001-02-0	OCDF	ng/kg	11.8	14.2	7.29 J Z	11.0 U B	10.8	13.6	10.7 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.404 J Z	0.244 J Z	0.184 J Z	5.50 U	0.336 J Z	0.406 J Z	0.0710 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.251 J Z	0.153 J Z	0.121 J Z	0.0496 J Z	0.215 J Z	0.292 J Z	0.241 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.0287 J Z	1.04 U	1.02 U	1.10 U B	1.04 U B	0.995 U	1.07 U B
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	0.320 J Z	0.374 J Z	0.283 J Z	5.50 U B	0.333 J Z	0.431 J Z	5.37 U
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.04 U B	5.21 U B	5.11 U B	5.50 U B	5.21 U B	4.97 U B	5.37 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.329 J Z	0.355 J Z	0.130 J Z	5.50 U B	0.384 J Z	0.464 J Z	0.169 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.208 J Z	0.215 J Z	0.204 J Z	5.50 U B	0.240 J Z	0.412 J I, Z	5.37 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	1.12 J Z	1.30 J Z	0.701 J Z	5.50 U B	0.985 J Z	1.15 J Z	5.37 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	0.254 J Z	0.256 J Z	0.201 J Z	0.0342 J Z	0.279 J Z	0.364 J Z	0.0533 J Z
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	4.01 J Z	3.88 J Z	2.16 J Z	5.50 U B	4.23 J Z	6.88	5.37 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	0.350 J Z	0.393 J Z	0.303 J Z	5.50 U B	0.375 J Z	0.597 J Z	5.37 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.04 U B	0.217 J Z	0.261 J Z	5.50 U B	0.236 J Z	4.97 U B	5.37 U B

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

		Sample Name	SL-713-SA5C-SB-0.0-0.5	SL-713-SA5C-SB-6.0-7.0	SL-715-SA5C-SB-0.0-0.5	SL-715-SA5C-SB-6.0-7.0	SL-716-SA5C-SB-0.0-0.5	SL-716-SA5C-SB-5.5-6.5	SL-717-SA5C-SB-0.0-0.5	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	04/30/2012	06/14/2012	04/30/2012	06/14/2012	05/02/2012	06/13/2012	05/02/2012	
		SDG	PH004	PH014	PH004	PH014	PH004	PH013	PH004	
		Start Depth	0	6	0	6	0	5.5	0	
		End Depth	0.5	7	0.5	7	0.5	6.5	0.5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.0378 J Z	0.0491 J Z	1.03 U	0.0634 J Z	0.0714 J Z	1.07 U B	0.0483 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.927 J Z	5.40 U B	0.720 J Z	0.374 J Z	0.313 J Z	5.33 U B	0.110 J Z
1613B	3268-87-9	OCDD	ng/kg	121	3.45 J Z	119	59.5	158	23.5	28.9
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	12	5.40 U B	11.7	6.46	14.7	2.29 J Z	2.96 J Z
1613B	39001-02-0	OCDF	ng/kg	4.19 J Z	10.8 U B	3.90 J Z	3.22 J Z	10.0 J Z	0.714 J Z	1.13 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.388 J Z	0.122 J Z	0.229 J Z	0.261 J Z	0.123 J Z	5.33 U B	0.0694 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	0.624 J Z	0.155 J Z	0.282 J Z	0.252 J Z	0.114 J Z	5.33 U B	5.11 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.05 U	1.08 U B	1.03 U	1.05 U	1.04 U B	0.0428 J Z	1.02 U B
1613B	55673-89-7	1,2,3,4,7,8-HPCDF	ng/kg	0.373 J Z	5.40 U B	0.266 J Z	0.199 J Z	0.213 J Z	5.33 U B	5.11 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	2.14 J Z	5.40 U B	0.826 J Z	5.26 U B	5.19 U B	5.33 U B	5.11 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	1.64 J Z	0.267 J Z	0.923 J Z	0.275 J Z	0.489 J Z	5.33 U B	5.11 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.697 J Z	5.40 U B	0.300 J Z	0.265 J Z	0.168 J Z	5.33 U B	5.11 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	1.35 J Z	5.40 U B	0.825 J Z	0.600 J Z	0.527 J Z	5.33 U B	0.165 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	0.869 J Z	0.0949 J Z	0.379 J Z	0.222 J Z	0.158 J Z	5.33 U B	5.11 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	2.11 J Z	5.40 U B	1.80 J Z	1.20 J Z	2.17 J Z	0.369 J Z	0.470 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	1.70 J Z	0.219 J Z	0.711 J Z	0.476 J Z	0.305 J Z	5.33 U B	5.11 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.855 J Z	5.40 U B	0.478 J Z	5.26 U B	0.189 J Z	5.33 U B	5.11 U B

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

		Sample Name	SL-717-SA5C-SB-6.0-7.0	SL-718-SA5C-SB-0.0-0.5	SL-718-SA5C-SB-4.0-5.0	SL-718-SA5C-SB-8.0-9.0	SL-719-SA5C-SB-0.0-0.5	SL-719-SA5C-SB-6.0-7.0	SL-720-SA5C-SB-0.0-0.5	
		Sample Type	N	N	N	N	N	N	N	
		Sample Date	06/13/2012	05/02/2012	06/13/2012	06/13/2012	05/02/2012	06/14/2012	04/30/2012	
		SDG	PH013	PH004	PH013	PH013	PH004	PH014	PH004	
		Start Depth	6	0	4	8	0	6	0	
		End Depth	7	0.5	5	9	0.5	7	0.5	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.07 U	1.00 U	1.04 U B	1.07 U B	0.0175 J Z	1.07 U	0.0338 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.33 U B	0.240 J Z	5.20 U B	5.34 U B	0.484 J Z	5.36 U B	0.878 J Z
1613B	3268-87-9	OCDD	ng/kg	10.7 U B	130	88.9	40.7	598	10.7 U B	210
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.33 U B	13.1	9.29	4.43 J Z	51.1	5.36 U B	22.8
1613B	39001-02-0	OCDF	ng/kg	10.7 U B	10.5	7.35 J Z	3.07 J Z	12.7	10.7 U B	4.55 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.33 U	0.0876 J Z	5.20 U B	5.34 U B	0.195 J Z	0.0406 J Z	0.277 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.33 U B	5.00 U B	5.20 U B	5.34 U B	0.109 J Z	5.36 U	0.258 J Z
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.07 U	1.00 U	0.0619 J Z	0.0772 J Z	1.03 U	1.07 U	0.0943 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.33 U B	0.213 J Z	0.217 J Z	5.34 U B	0.848 J Z	5.36 U B	0.221 J Z
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.33 U B	5.00 U B	5.20 U B	5.34 U B	0.254 J Z	5.36 U B	0.219 J Z
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.33 U B	0.276 J Z	0.298 J Z	0.263 J Z	0.559 J Z	5.36 U	0.603 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.33 U B	0.148 J Z	0.184 J Z	0.149 J Z	0.447 J Z	5.36 U B	0.283 J Z
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.33 U B	0.446 J Z	0.310 J Z	5.34 U B	1.26 J Z	5.36 U B	1.15 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.33 U B	0.192 J Z	5.20 U B	5.34 U B	0.454 J Z	5.36 U	0.338 J Z
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.33 U B	2.29 J Z	1.94 J Z	0.992 J Z	6.53	5.36 U B	2.14 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.33 U B	0.329 J Z	5.20 U B	5.34 U B	0.805 J Z	5.36 U B	0.458 J Z
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.33 U B	0.171 J Z	5.20 U B	5.34 U B	0.311 J Z	5.36 U	0.351 J Z

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

		Sample Name	SL-720-SA5C-SB-4.5-5.5	SL-1022-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-6.0-7.0	SL-723-SA5C-SB-0.0-0.5	SL-723-SA5C-SB-4.0-5.0	SL-723-SA5C-SB-9.0-10.0	
		Sample Type	N	FD	N	N	N	N	N	
		Sample Date	06/13/2012	05/01/2012	05/01/2012	06/13/2012	05/29/2012	05/29/2012	05/29/2012	
		SDG	PH013	PH004	PH004	PH013	PH010	PH010	PH010	
		Start Depth	4.5	0	0	6	0	4	9	
		End Depth	5.5	0.5	0.5	7	0.5	5	10	
Analytic Method	CAS Number	Chemical Name	Unit							
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.09 U B	0.0217 J FD, Z	1.00 UJ FD	1.04 U B	0.0507 J Z	1.10 U	0.0543 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	5.47 U B	5.15 U B	5.01 U B	5.21 U B	0.504 J Z	5.48 U B	5.34 U B
1613B	3268-87-9	OCDD	ng/kg	12.8	7.29 J FD, Z	15.2 J FD	85.1	128	11.0 U B	10.7 U B
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	1.78 J Z	5.15 UJ B, FD	1.81 J FD, Z	7.91	13.5	5.48 U B	5.34 U B
1613B	39001-02-0	OCDF	ng/kg	1.28 J Z	0.559 J FD, Z	1.10 J FD, Z	4.55 J Z	7.53 J Z	11.0 U B	10.7 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.47 U B	0.0367 J FD, Z	5.01 UJ FD	5.21 U B	5.15 U B	5.48 U B	5.34 U
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.47 U B	5.15 UJ B, FD	5.01 UJ FD	5.21 U B	5.15 U B	5.48 U B	5.34 U
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.147 J Z	1.03 UJ B, FD	1.00 UJ B, FD	1.04 U	1.03 U B	1.10 U B	1.07 U
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.47 U B	5.15 U B	5.01 U B	5.21 U B	5.15 U B	5.48 U B	5.34 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.47 U B	5.15 UJ B, FD	5.01 UJ B, FD	5.21 U B	5.15 U B	5.48 U B	5.34 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.47 U B	0.116 J FD, Z	5.01 UJ B, FD	0.348 J Z	0.476 J Z	5.48 U B	5.34 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.47 U B	5.15 UJ B, FD	5.01 UJ B, FD	6.86	0.242 J Z	5.48 U B	5.34 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.47 U B	5.15 U B	5.01 U B	0.344 J Z	0.722 J Z	5.48 U B	5.34 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.47 U B	5.15 UJ B, FD	5.01 UJ B, FD	5.21 U B	0.337 J Z	5.48 U B	5.34 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	0.453 J Z	5.15 U B	5.01 U B	1.57 J Z	1.97 J Z	5.48 U B	5.34 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.47 U B	5.15 U B	5.01 U B	0.424 J Z	0.298 J Z	5.48 U B	5.34 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.47 U B	5.15 UJ B, FD	5.01 UJ B, FD	0.212 J Z	0.406 J Z	5.48 U B	5.34 U

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R - Result is rejected

		Sample Name	SL-724-SA5C-SB-0.0-0.5	SL-724-SA5C-SB-4.0-5.0	SL-724-SA5C-SB-9.0-10.0	SL-727-SA5C-SB-0.0-0.5	SL-1027-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-9.0-10.0
		Sample Type	N	N	N	N	FD	N	N
		Sample Date	05/29/2012	05/29/2012	05/29/2012	05/21/2012	05/21/2012	05/21/2012	05/21/2012
		SDG	PH010	PH010	PH010	PH008	PH008	PH008	PH008
		Start Depth	0	4	9	0	4	4	9
		End Depth	0.5	5	10	0.5	5	5	10
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.10 U	0.0316 J Z	0.0867 J Z	1.03 U	1.13 U	1.12 U
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.930 J Z	5.70 U B	5.70 U B	0.120 J Z	0.600 J Z	5.60 U B
1613B	3268-87-9	OCDD	ng/kg	11.0 U B	11.4 U B	11.4 U B	4.43 J Z	11.3 UJ B, FD	2.63 J Z
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.50 U B	5.70 U B	5.70 U B	5.17 U B	5.63 U B	5.60 U B
1613B	39001-02-0	OCDF	ng/kg	11.0 U B	11.4 U B	11.4 U B	10.3 U B	11.3 U B	11.2 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.50 U B	5.70 U B	5.70 U B	5.17 U	5.63 UJ B, FD	5.60 U
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.50 U B	5.70 U B	0.312 J Z	5.17 U B	0.157 J FD, Z	5.60 U
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.10 U B	1.14 U B	1.14 U B	0.0214 J Z	0.0312 J FD, Z	1.12 U B
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.50 U B	5.70 U B	5.70 U B	5.17 U B	5.63 U B	5.60 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.50 U B	5.70 U B	5.70 U B	5.17 U B	5.63 UJ B, FD	5.60 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.50 U B	5.70 U B	0.313 J Z	0.376 J Z	0.237 J FD, Z	5.60 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.50 U B	5.70 U B	5.70 U B	5.17 U B	0.119 J FD, Z	5.60 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.681 J Z	5.70 U B	5.70 U B	5.17 U B	0.451 J Z	5.60 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.50 U B	5.70 U B	5.70 U B	5.17 U	5.63 UJ B, FD	5.60 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.50 U B	5.70 U B	5.70 U B	5.17 U B	5.63 U B	5.60 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.50 U B	5.70 U B	5.70 U B	5.17 U B	5.63 UJ B, FD	5.60 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.950 J Z	5.70 U B	5.70 U B	0.0900 J Z	0.365 J Z	5.60 U B

U - Compound not detected above the reporting limit  
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R - Result is rejected

		Sample Name	SL-733-SA5C-SB-0.0-0.5	SL-733-SA5C-SB-4.0-5.0	SL-733-SA5C-SB-9.0-10.0	SL-734-SA5C-SB-0.0-0.5	SL-734-SA5C-SB-4.0-5.0	SL-734-SA5C-SB-9.0-10.0	SL-735-SA5C-SB-0.0-0.5
		Sample Type	N	N	N	N	N	N	N
		Sample Date	05/22/2012	05/22/2012	05/22/2012	05/21/2012	05/21/2012	05/21/2012	04/12/2012
		SDG	PH008	PH008	PH008	PH008	PH008	PH008	PH001
		Start Depth	0	4	9	0	4	9	0
		End Depth	0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.10 U B	1.08 U	1.14 U	1.06 U	1.07 U B	1.10 U
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.298 J Z	5.42 U B	5.72 U B	0.168 J Z	0.203 J Z	5.48 U B
1613B	3268-87-9	OCDD	ng/kg	4.05 J Z	10.8 U B	11.4 U B	3.90 J Z	10.7 U B	11.0 U B
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.50 U B	5.42 U B	5.72 U B	5.30 U B	5.34 U B	5.48 U B
1613B	39001-02-0	OCDF	ng/kg	11.0 U B	10.8 U B	11.4 U B	10.6 U B	10.7 U B	11.0 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.50 U	5.42 U	5.72 U	5.30 U B	5.34 U B	5.48 U
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.50 U B	5.42 U	5.72 U B	5.30 U B	5.34 U B	5.48 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.10 U	0.0122 J Z	1.14 U	0.0278 J Z	0.0152 J Z	0.0158 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	5.50 U B	5.42 U B	5.72 U B	5.30 U B	5.34 U B	5.48 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.50 U B	5.42 U B	5.72 U B	5.30 U B	5.34 U B	5.48 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.322 J Z	5.42 U B	5.72 U B	0.164 J Z	5.34 U B	5.48 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.50 U B	5.42 U	5.72 U	0.0556 J Z	5.34 U B	5.48 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.234 J Z	5.42 U B	5.72 U B	5.30 U B	0.168 J Z	5.48 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.50 U B	5.42 U B	5.72 U B	5.30 U B	5.34 U B	5.48 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.50 U B	5.42 U B	5.72 U B	5.30 U B	5.34 U B	5.48 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.50 U B	5.42 U B	5.72 U B	5.30 U B	5.34 U B	5.48 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	0.195 J Z	0.0552 J Z	5.72 U B	0.191 J Z	0.178 J Z	5.48 U B

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R - Result is rejected

		Sample Name	SL-735-SA5C-SB-4.0-5.0	SL-735-SA5C-SB-9.0-10.0	SL-737-SA5C-SB-0.0-0.5	SL-737-SA5C-SB-4.0-5.0	SL-737-SA5C-SB-9.0-10.0	SL-738-SA5C-SB-0.0-0.5	SL-738-SA5C-SB-4.0-5.0
		Sample Type	N	N	N	N	N	N	N
		Sample Date	05/17/2012	05/17/2012	04/12/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012
		SDG	PH007	PH007	PH001	PH007	PH007	PH007	PH007
		Start Depth	4	9	0	4	9	0	4
		End Depth	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.07 U B	1.10 U	1.07 U B	1.10 U	1.05 U	1.04 U
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.297 J Z	0.115 J Z	0.463 J Z	0.285 J Z	0.158 J Z	0.431 J Z
1613B	3268-87-9	OCDD	ng/kg	11.1	11.2	234	10.9 J Z	92.8	142
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.35 U B	5.49 U B	21	5.49 U B	9.81	12.6
1613B	39001-02-0	OCDF	ng/kg	10.7 U B	11.0 U B	7.86 J Z	11.0 U B	5.81 J Z	3.52 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.35 U B	5.49 U B	0.267 J Z	5.49 U B	5.25 U B	0.158 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.35 U B	5.49 U B	5.37 U B	5.49 U B	5.25 U B	5.18 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.07 U B	1.10 U B	0.0591 J Z	1.10 U B	1.05 U	0.124 J Z
1613B	55673-89-7	1,2,3,4,7,8-HPCDF	ng/kg	5.35 U B	5.49 U B	5.37 U B	5.49 U B	5.25 U B	5.18 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.35 U B	5.49 U B	5.37 U B	5.49 U B	5.25 U B	1.15 J Z
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.35 U B	5.49 U B	5.37 U B	5.49 U B	5.25 U B	1.33 J Z
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.35 U B	5.49 U B	5.37 U B	5.49 U B	5.25 U B	0.347 J Z
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.35 U B	5.49 U B	0.831 J Z	5.49 U B	5.25 U B	0.587 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.35 U B	5.49 U B	5.37 U B	5.49 U B	5.25 U B	0.574 J Z
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.35 U B	5.49 U B	3.42 J Z	5.49 U B	1.57 J Z	2.25 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.35 U B	5.49 U B	0.344 J Z	5.49 U B	0.142 J Z	0.297 J Z
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.35 U B	5.49 U	5.37 U B	5.49 U B	5.25 U B	0.284 J Z

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R - Result is rejected

		Sample Name	SL-738-SA5C-SB-9.0-10.0	SL-739-SA5C-SB-0.0-0.5	SL-739-SA5C-SB-4.0-5.0	SL-739-SA5C-SB-9.0-10.0	SL-741-SA5C-SB-0.0-0.5	SL-741-SA5C-SB-4.0-5.0	SL-741-SA5C-SB-9.0-10.0
		Sample Type	N	N	N	N	N	N	N
		Sample Date	05/17/2012	05/17/2012	05/17/2012	05/17/2012	07/24/2012	07/24/2012	07/24/2012
		SDG	PH007	PH007	PH007	PH007	PH025	PH025	PH025
		Start Depth	9	0	4	9	0	4	9
		End Depth	10	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.13 U	1.07 U B	1.11 U	1.07 U B	1.04 U B	1.10 U B
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.159 J Z	0.160 J Z	0.239 J Z	5.37 U B	5.21 U B	5.50 U B
1613B	3268-87-9	OCDD	ng/kg	11.3 U B	6.71 J Z	2.70 J Z	10.7 U B	38.5	11.0 U B
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	5.65 U B	5.36 U B	5.54 U B	5.37 U B	4.12 J Z	5.50 U B
1613B	39001-02-0	OCDF	ng/kg	11.3 U B	10.7 U B	11.1 U B	10.7 U B	1.42 J Z	11.0 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.65 U	5.36 U	5.54 U	5.37 U B	0.0474 J Z	0.0720 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.65 U B	5.36 U B	5.54 U B	5.37 U B	5.21 U B	5.50 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.13 U	1.07 U B	1.11 U	1.07 U B	1.04 U	1.10 U B
1613B	55673-89-7	1,2,3,4,7,8-HPCDF	ng/kg	5.65 U B	5.36 U B	5.54 U	5.37 U B	5.21 U B	5.50 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.65 U B	5.36 U B	5.54 U B	5.37 U B	5.21 U B	5.50 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.65 U	5.36 U B	5.54 U B	5.37 U B	5.21 U B	5.50 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	5.65 U B	5.36 U B	5.54 U B	5.37 U B	5.21 U B	5.50 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	5.65 U B	5.36 U B	5.54 U B	5.37 U B	5.21 U B	5.50 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.65 U B	5.36 U B	5.54 U B	5.37 U B	5.21 U B	5.50 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.65 U B	5.36 U B	5.54 U B	5.37 U B	0.496 J Z	5.50 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.65 U B	5.36 U B	5.54 U B	5.37 U B	5.21 U B	5.50 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.65 U B	5.36 U B	5.54 U B	5.37 U B	5.21 U B	5.50 U B

U - Compound not detected above the reporting limit  
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R - Result is rejected

		Sample Name	SL-742-SA5C-SB-0.0-0.5	SL-747-SA5C-SB-0.0-0.5	SL-747-SA5C-SB-2.5-3.5	SL-750-SA5C-SB-0.0-0.5	SL-750-SA5C-SB-5.5-6.5	SL-752-SA5C-SB-0.0-0.5	SL-754-SA5C-SB-0.0-0.5
		Sample Type	N	N	N	N	N	N	N
		Sample Date	07/24/2012	04/17/2012	06/26/2012	05/29/2012	05/29/2012	05/30/2012	07/09/2012
		SDG	PH025	PH002	PH015	PH010	PH010	PH010	PH017
		Start Depth	0	0	2.5	0	5.5	0	0
		End Depth	0.5	0.5	3.5	0.5	6.5	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit						
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	0.989 U B	3.45	1.02 J Z	0.127 J Z	0.108 J Z	0.0356 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	4.95 U B	117	10.1	1.17 J Z	5.52 U B	0.164 J Z
1613B	3268-87-9	OCDD	ng/kg	19.8	42600 J *#	2770	104	11.0 U B	11.3 U B
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	1.89 J Z	4900 J *#	429	8.14	5.52 U B	5.65 U B
1613B	39001-02-0	OCDF	ng/kg	1.99 J Z	943	91.1	5.44 J Z	11.0 U B	11.3 U B
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.0316 J Z	60.4	5.15 J Z	5.54 U B	5.52 U B	5.65 U B
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	4.95 U B	30.1	2.37 J Z	0.261 J Z	5.52 U B	5.65 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	0.989 U B	1.8	1.08 U	1.11 U B	1.10 U B	1.13 U B
1613B	55673-89-7	1,2,3,4,7,8-HPCDF	ng/kg	4.95 U B	57.1	6.26	5.54 U B	5.52 U B	5.65 U B
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	4.95 U B	6.08	0.555 J Z	5.54 U B	5.52 U B	5.65 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	0.440 J Z	4.93 J Z	0.494 J Z	0.314 J Z	5.52 U B	5.65 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	4.95 U B	18.4	2.13 J Z	0.227 J Z	5.52 U B	5.65 U B
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	4.95 U B	248	20.8	0.832 J Z	5.52 U B	5.65 U B
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	4.95 U B	32.2	3.30 J Z	5.54 U B	5.52 U B	5.65 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	4.95 U B	476	45.2	1.39 J Z	5.52 U B	5.65 U B
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	4.95 U B	19	1.79 J Z	5.54 U B	5.52 U B	5.65 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	4.95 U B	5.01 J Z	0.673 J Z	0.930 J Z	5.52 U B	5.65 U B

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		Sample Name	SL-754-SA5C-SB-4.0-5.0	SL-754-SA5C-SB-6.5-7.5	SL-755-SA5C-SB-0.0-0.5	SL-755-SA5C-SB-4.0-5.0	SL-755-SA5C-SB-5.5-6.5	
		Sample Type	N	N	N	N	N	
		Sample Date	07/09/2012	07/09/2012	07/10/2012	07/10/2012	07/10/2012	
		SDG	PH017	PH017	PH017	PH017	PH017	
		Start Depth	4	6.5	0	4	5.5	
		End Depth	5	7.5	0.5	5	6.5	
Analytic Method	CAS Number	Chemical Name	Unit					
1613B	1746-01-6	2,3,7,8-TCDD	ng/kg	1.10 U	0.100 J Z	0.0534 J Z	0.0604 J Z	0.105 J Z
1613B	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	ng/kg	0.149 J Z	0.0534 J Z	1.16 J Z	0.194 J Z	0.111 J Z
1613B	3268-87-9	OCDD	ng/kg	14.3	10.2 U B	834	378	130
1613B	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	ng/kg	1.50 J Z	5.10 U B	58.1	24.3	9.69
1613B	39001-02-0	OCDF	ng/kg	0.471 J Z	0.0786 J Z	18.3	5.54 J Z	2.38 J Z
1613B	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.0288 J Z	0.0324 J Z	0.484 J Z	0.0943 J Z	0.0669 J Z
1613B	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	ng/kg	5.48 U	5.10 U B	0.415 J Z	5.55 U B	5.32 U B
1613B	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran	ng/kg	1.10 U	1.02 U	0.0513 J Z	0.0363 J Z	0.0582 J Z
1613B	55673-89-7	1,2,3,4,7,8,9-HPCDF	ng/kg	0.0186 J Z	0.0370 J Z	0.544 J Z	0.182 J Z	0.0548 J Z
1613B	57117-31-4	2,3,4,7,8-PECDF	ng/kg	5.48 U B	5.10 U B	0.248 J Z	5.55 U B	5.32 U B
1613B	57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran	ng/kg	5.48 U B	5.10 U B	0.274 J Z	5.55 U B	5.32 U B
1613B	57117-44-9	1,2,3,6,7,8-HXCDF	ng/kg	0.0466 J Z	0.0485 J Z	0.289 J Z	0.0650 J Z	0.0372 J Z
1613B	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	ng/kg	0.115 J Z	0.0711 J Z	2.18 J Z	0.688 J Z	0.351 J Z
1613B	60851-34-5	2,3,4,6,7,8-HXCDF	ng/kg	5.48 U B	5.10 U B	0.243 J Z	5.55 U B	5.32 U B
1613B	67562-39-4	1,2,3,4,6,7,8-HPCDF	ng/kg	5.48 U B	5.10 U B	7.97	2.13 J Z	0.827 J Z
1613B	70648-26-9	1,2,3,4,7,8-HXCDF	ng/kg	5.48 U B	5.10 U B	0.484 J Z	5.55 U B	5.32 U B
1613B	72918-21-9	1,2,3,7,8,9-HXCDF	ng/kg	5.48 U B	5.10 U B	0.577 J Z	5.55 U B	5.32 U B

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				SL-501-SA5C-SB-0.0-0.5	SL-501-SA5C-SB-4.0-5.0	SL-568-SA5C-SB-0.0-0.5	SL-568-SA5C-SB-4.0-5.0	SL-568-SA5C-SB-9.0-10.0	SL-570-SA5C-SB-0.0-0.5	SL-570-SA5C-SB-2.0-3.0	SL-573-SA5C-SB-0.0-0.5
Sample Name				N	N	N	N	N	N	N	N
Sample Type				04/20/2012	06/28/2012	06/06/2012	06/06/2012	06/06/2012	04/18/2012	04/18/2012	06/04/2012
Sample Date				PT003	PT014	PT010	PT010	PT010	PT001	PT001	PT008
SDG				0	4	0	4	9	0	2	0
Start Depth				0.5	5	0.5	5	10	0.5	3	0.5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
8315A	50-00-0	Formaldehyde	µg/kg	3300 U	1700 U	3400 U	3400 U	3400 U	3300 U	3300 U	3400 U

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				SL-573-SA5C-SB-4.0-5.0	SL-573-SA5C-SB-9.0-10.0	SL-579-SA5C-SB-0.0-0.5	SL-579-SA5C-SB-4.0-5.0	SL-580-SA5C-SB-0.0-0.5	SL-580-SA5C-SB-4.0-5.0	SL-581-SA5C-SB-0.0-0.5	SL-581-SA5C-SB-4.0-5.0
Sample Name				N	N	N	N	N	N	N	N
Sample Type				06/04/2012	06/04/2012	04/18/2012	04/18/2012	04/18/2012	04/18/2012	04/17/2012	06/26/2012
Sample Date				PT008	PT008	PT002	PT002	PT001	PT001	PT001	PT013
SDG				4	9	0	4	0	4	0	4
Start Depth				5	10	0.5	5	0.5	5	0.5	5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
8315A	50-00-0	Formaldehyde	µg/kg	3400 U	3400 U	3400 U	3300 U	3500 U	3400 U	3300 U	1700 U

				Sample Name	SL-881-SA5C-SB-4.0-5.0	SL-695-SA5C-SB-0.0-0.5	SL-995-SA5C-SB-0.0-0.5	SL-695-SA5C-SB-4.0-5.0	SL-695-SA5C-SB-9.0-10.0	SL-715-SA5C-SB-0.0-0.5	SL-715-SA5C-SB-6.0-7.0	SL-730-SA5C-SB-0.0-0.5
				Sample Type	FD	N	FD	N	N	N	N	N
				Sample Date	06/26/2012	04/26/2012	04/26/2012	05/16/2012	05/16/2012	04/30/2012	06/14/2012	05/22/2012
				SDG	PT013	PT004	PT004	PT006	PT006	PT005	PT011	PT007
				Start Depth	4	0	0	4	9	0	6	0
				End Depth	5	0.5	0.5	5	10	0.5	7	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8315A	50-00-0	Formaldehyde	µg/kg		1700 U	3300 U	3300 U	3200 U	3400 U	1600 U	3200 U	3400 U

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 R - Result is rejected

				Sample Name	SL-730-SA5C-SB-4.0-5.0	SL-730-SA5C-SB-9.0-10.0	SL-731-SA5C-SB-0.0-0.5	SL-731-SA5C-SB-4.0-5.0	SL-731-SA5C-SB-9.0-10.0	SL-732-SA5C-SB-5.0-6.0	SL-732-SA5C-SB-10.5-11.5	SL-741-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	07/24/2012
				SDG	PT007	PT007	PT007	PT007	PT007	PT007	PT007	PT030
				Start Depth	4	9	0	4	9	5	10.5	0
				End Depth	5	10	0.5	5	10	6	11.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8315A	50-00-0	Formaldehyde	µg/kg	1600 J Z	3600	3400	13000	7900	3400 U	6000	3200 U	

				Sample Name	SL-741-SA5C-SB-4.0-5.0	SL-741-SA5C-SB-9.0-10.0	SL-742-SA5C-SB-0.0-0.5
				Sample Type	N	N	N
				Sample Date	07/24/2012	07/24/2012	07/24/2012
				SDG	PT030	PT030	PT030
				Start Depth	4	9	0
				End Depth	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit				
8315A	50-00-0	Formaldehyde	µg/kg	3300 U	3200 U	3000 U	

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 R - Result is rejected

Sample Name				SL-536-SA5C-SB-0.0-0.5	SL-536-SA5C-SB-4.0-5.0	SL-536-SA5C-SB-9.0-10.0	SL-537-SA5C-SB-0.0-0.5	SL-537-SA5C-SB-4.0-5.0	SL-537-SA5C-SB-9.0-10.0	SL-539-SA5C-SB-0.0-0.5	SL-539-SA5C-SB-6.0-7.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/08/2012	06/01/2012	06/01/2012	06/07/2012	06/07/2012	06/07/2012	06/05/2012	06/05/2012
SDG				12E055	12F020	12F020	12F051	12F051	12F051	12F037	12F037
Start Depth				0	4	9	0	4	9	0	6
End Depth				0.5	5	10	0.5	5	10	0.5	7
Analytic Method	CAS Number	Chemical Name	Unit								
8015M	107-21-1	Ethylene Glycol	mg/kg	11 U	11 U	11 U	11 U	12 U	12 U	11 U	11 U
8015M	111-46-6	Diethylene Glycol	mg/kg	16 U	16 U	17 U	17 U	17 U	17 U	17 U	17 U
8015M	57-55-6	Propylene Glycol	mg/kg	11 U	11 U	11 U	11 U	12 U	12 U	11 U	11 U

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				SL-543-SA5C-SB-0.0-0.5	SL-543-SA5C-SB-3.5-4.5	SL-544-SA5C-SB-0.0-0.5	SL-544-SA5C-SB-5.0-6.0	SL-545-SA5C-SB-0.0-0.5	SL-545-SA5C-SB-4.0-5.0	SL-545-SA5C-SB-9.0-10.0	SL-546-SA5C-SB-0.0-0.5
Sample Name				N	N	N	N	N	N	N	N
Sample Type				06/05/2012	06/05/2012	05/30/2012	05/30/2012	06/04/2012	06/04/2012	06/04/2012	06/06/2012
Sample Date				12F037	12F037	12E244	12E244	12F037	12F037	12F037	12F044
SDG				0	3.5	0	5	0	4	9	0
Start Depth				0.5	4.5	0.5	6	0.5	5	10	0.5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
8015M	107-21-1	Ethylene Glycol	mg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U
8015M	111-46-6	Diethylene Glycol	mg/kg	17 U	16 U	16 U	17 U	17 U	17 U	17 U	17 U
8015M	57-55-6	Propylene Glycol	mg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	11 U

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Sample Name				SL-546-SA5C-SB-4.0-5.0	SL-846-SA5C-SB-4.0-5.0	SL-546-SA5C-SB-9.0-10.0	SL-547-SA5C-SB-0.0-0.5	SL-547-SA5C-SB-4.0-5.0	SL-547-SA5C-SB-9.0-10.0	SL-548-SA5C-SB-0.0-0.5	SL-548-SA5C-SB-4.0-5.0
Sample Type				N	FD	N	N	N	N	N	N
Sample Date				06/06/2012	06/06/2012	06/06/2012	05/08/2012	06/07/2012	06/07/2012	05/08/2012	06/07/2012
SDG				12F044	12F044	12F044	12E055	12F051	12F051	12E055	12F051
Start Depth				4	4	9	0	4	9	0	4
End Depth				5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8015M	107-21-1	Ethylene Glycol	mg/kg	12 U	12 U	12 U	11 U	11 U	11 U	12 U	12 U
8015M	111-46-6	Diethylene Glycol	mg/kg	17 U	18 U	17 U	17 U	17 U	16 U	18 U	17 U
8015M	57-55-6	Propylene Glycol	mg/kg	12 U	12 U	12 U	11 U	11 U	11 U	12 U	12 U

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Sample Name				SL-548-SA5C-SB-9.0-10.0	SL-550-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-4.0-5.0	SL-552-SA5C-SB-0.0-0.5	SL-554-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-2.5-3.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/07/2012	05/30/2012	06/05/2012	06/05/2012	06/05/2012	05/29/2012	05/29/2012	05/29/2012
SDG				12F051	12E244	12F037	12F037	12F037	12E229	12E229	12E229
Start Depth				9	0	0	4	0	0	0	2.5
End Depth				10	0.5	0.5	4	0.5	0.5	0.5	3.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015M	107-21-1	Ethylene Glycol	mg/kg	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U
8015M	111-46-6	Diethylene Glycol	mg/kg	17 U	16 U	17 U	17 U	16 U	17 U	17 U	17 U
8015M	57-55-6	Propylene Glycol	mg/kg	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U

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 R - Result is rejected

				SL-559-SA5C-SB-0.0-0.5	SL-559-SA5C-SB-2.0-3.0	SL-559-SA5C-SB-7.0-8.0	SL-560-SA5C-SB-0.0-0.5	SL-560-SA5C-SB-6.5-7.5	SL-561-SA5C-SB-0.0-0.5	SL-561-SA5C-SB-5.5-6.5	SL-571-SA5C-SB-0.0-0.5
Sample Name				N	N	N	N	N	N	N	N
Sample Type				06/07/2012	06/07/2012	06/07/2012	05/30/2012	05/30/2012	06/05/2012	06/05/2012	04/26/2012
Sample Date				12F051	12F051	12F051	12E244	12E244	12F037	12F037	12D256
SDG				0	2	7	0	6.5	0	5.5	0
Start Depth				0.5	3	8	0.5	7.5	0.5	6.5	0.5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
8015M	107-21-1	Ethylene Glycol	mg/kg	12 U	12 U	12 U	12 U	11 U	11 U	11 U	12 U
8015M	111-46-6	Diethylene Glycol	mg/kg	17 U	18 U	17 U	17 U	17 U	17 U	16 U	18 U
8015M	57-55-6	Propylene Glycol	mg/kg	12 U	12 U	12 U	12 U	11 U	11 U	11 U	12 U

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

Sample Name				SL-571-SA5C-SB-4.0-5.0	SL-571-SA5C-SB-9.0-10.0	SL-572-SA5C-SB-0.0-0.5	SL-572-SA5C-SB-4.0-5.0	SL-872-SA5C-SB-4.0-5.0	SL-573-SA5C-SB-0.0-0.5	SL-573-SA5C-SB-4.0-5.0	SL-573-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	FD	N	N	N
Sample Date				06/07/2012	06/07/2012	06/19/2012	06/19/2012	06/19/2012	06/04/2012	06/04/2012	06/04/2012
SDG				12F051	12F051	12F132	12F132	12F132	12F029	12F029	12F029
Start Depth				4	9	0	4	4	0	4	9
End Depth				5	10	0.5	5	5	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8015M	107-21-1	Ethylene Glycol	mg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
8015M	111-46-6	Diethylene Glycol	mg/kg	17 U	17 U	17 U	16 U	16 U	17 U	17 U	17 U
8015M	57-55-6	Propylene Glycol	mg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U

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 R - Result is rejected

Sample Name				SL-608-SA5C-SB-0.0-0.5	SL-608-SA5C-SB-2.0-3.0	SL-609-SA5C-SB-0.0-0.5	SL-609-SA5C-SB-3.0-4.0	SL-610-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-2.5-3.5	SL-703-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/09/2012	05/31/2012	05/09/2012	05/31/2012	05/31/2012	05/23/2012	05/23/2012	04/26/2012
SDG				12E067	12E267	12E067	12E267	12E267	12E187	12E187	12D256
Start Depth				0	2	0	3	0	0	2.5	0
End Depth				0.5	3	0.5	4	0.5	0.5	3.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015M	107-21-1	Ethylene Glycol	mg/kg	10 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U
8015M	111-46-6	Diethylene Glycol	mg/kg	15 U	16 U	17 U	17 U	16 U	17 U	16 U	16 U
8015M	57-55-6	Propylene Glycol	mg/kg	10 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U

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				Sample Name	SL-703-SA5C-SB-4.0-5.0	SL-703-SA5C-SB-9.0-10.0	SL-752-SA5C-SB-0.0-0.5
				Sample Type	N	N	N
				Sample Date	06/18/2012	06/18/2012	05/30/2012
				SDG	12F120	12F120	12E244
				Start Depth	4	9	0
				End Depth	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit				
8015M	107-21-1	Ethylene Glycol	mg/kg	11 U	11 U	12 U	
8015M	111-46-6	Diethylene Glycol	mg/kg	17 U	17 U	17 U	
8015M	57-55-6	Propylene Glycol	mg/kg	11 U	11 U	12 U	

				Sample Name	SL-615-SA5C-SB-0.0-0.5	SL-615-SA5C-SB-4.0-5.0	SL-615-SA5C-SB-9.0-10.0
				Sample Type	N	N	N
				Sample Date	05/07/2012	06/05/2012	06/05/2012
				SDG	12E049	12F037	12F037
				Start Depth	0	4	9
				End Depth	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit				
8151A	120-36-5	Dichlorprop	µg/kg	11 U	12 U	11 U	
8151A	1918-00-9	Dicamba	µg/kg	11 U	12 U	11 U	
8151A	75-99-0	2,2-Dichlor-Propionic Acid	µg/kg	11 U	12 U	11 U	
8151A	88-85-7	Dinitrobutyl Phenol	µg/kg	11 U	12 U	11 U	
8151A	93-65-2	MCPP	µg/kg	2300 U	2300 U	2200 U	
8151A	93-72-1	Silvex (2,4,5-TP)	µg/kg	11 U	12 U	11 U	
8151A	93-76-5	2,4,5-T	µg/kg	11 U	12 U	11 U	
8151A	94-74-6	MCPA	µg/kg	2300 U	2300 U	2200 U	
8151A	94-75-7	2,4-D	µg/kg	11 U	12 U	11 U	
8151A	94-82-6	2,4-DB	µg/kg	11 U	12 U	11 U	

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				Sample Name	SL-520-SA5C-SB-0.0-0.5	SL-520-SA5C-SB-6.5-7.5	SL-521-SA5C-SB-0.0-0.5	SL-521-SA5C-SB-4.0-5.0	SL-521-SA5C-SB-9.0-10.0	SL-532-SA5C-SB-0.0-0.5	SL-542-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N
				Sample Date	04/23/2012	06/11/2012	06/11/2012	06/11/2012	06/11/2012	04/23/2012	05/09/2012
				SDG	12D198	12F071	12F071	12F071	12F071	12D198	12E067
				Start Depth	0	6.5	0	4	9	0	0
				End Depth	0.5	7.5	0.5	5	10	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
7199	18540-29-9	Chromium (Hexavalent Compounds)	mg/kg		1.10 U	1.07 U	1.14 U	1.13 U	1.14 U	1.10 U	6.69

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Appendix A8  
Hexavalent Chromium-Validated Data  
HSA - 5C - Phase 3

				Sample Name	SL-542-SA5C-SB-1.0-2.0	SL-547-SA5C-SB-0.0-0.5	SL-547-SA5C-SB-4.0-5.0	SL-547-SA5C-SB-9.0-10.0	SL-548-SA5C-SB-0.0-0.5	SL-548-SA5C-SB-4.0-5.0	SL-548-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	N	N	N	N
				Sample Date	05/09/2012	05/08/2012	06/07/2012	06/07/2012	05/08/2012	06/07/2012	06/07/2012
				SDG	12E067	12E055	12F051	12F051	12E055	12F051	12F051
				Start Depth	1	0	4	9	0	4	9
				End Depth	2	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
7199	18540-29-9	Chromium (Hexavalent Compounds)	mg/kg		1.12 U	1.14 U	1.11 U	1.08 U	1.17 U	1.15 U	1.13 U

				Sample Name	SL-560-SA5C-SB-0.0-0.5	SL-560-SA5C-SB-6.5-7.5	SL-561-SA5C-SB-0.0-0.5	SL-561-SA5C-SB-5.5-6.5	SL-568-SA5C-SB-0.0-0.5	SL-568-SA5C-SB-4.0-5.0	SL-568-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	N	N	N	N
				Sample Date	05/30/2012	05/30/2012	06/05/2012	06/05/2012	06/06/2012	06/06/2012	06/06/2012
				SDG	12E244	12E244	12F037	12F037	12F044	12F044	12F044
				Start Depth	0	6.5	0	5.5	0	4	9
				End Depth	0.5	7.5	0.5	6.5	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
7199	18540-29-9	Chromium (Hexavalent Compounds)	mg/kg		1.16 U	1.11 U	1.13 U	1.06 U	1.15 U	1.13 U	1.16 U

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Appendix A8  
Hexavalent Chromium-Validated Data  
HSA - 5C - Phase 3

				Sample Name	SL-573-SA5C-SB-0.0-0.5	SL-573-SA5C-SB-4.0-5.0	SL-573-SA5C-SB-9.0-10.0	SL-579-SA5C-SB-0.0-0.5	SL-579-SA5C-SB-4.0-5.0	SL-580-SA5C-SB-0.0-0.5	SL-580-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N
				Sample Date	06/04/2012	06/04/2012	06/04/2012	04/18/2012	04/18/2012	04/18/2012	04/18/2012
				SDG	12F029	12F029	12F029	12D165	12D165	12D165	12D165
				Start Depth	0	4	9	0	4	0	4
				End Depth	0.5	5	10	0.5	5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
7199	18540-29-9	Chromium (Hexavalent Compounds)	mg/kg		1.12 U	1.14 U	1.13 U	1.12 U	1.10 U	1.15 U	1.12 U

				Sample Name	SL-581-SA5C-SB-0.0-0.5	SL-581-SA5C-SB-4.0-5.0	SL-881-SA5C-SB-4.0-5.0	SL-640-SA5C-SB-5.0-6.0	SL-640-SA5C-SB-10.0-11.0	SL-640-SA5C-SB-15.0-16.0	SL-640-SA5C-SB-19.0-20.0
				Sample Type	N	N	FD	N	N	N	N
				Sample Date	04/17/2012	06/26/2012	06/26/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
				SDG	12D155	12F197	12F197	12G048	12G048	12G048	12G048
				Start Depth	0	4	4	5	10	15	19
				End Depth	0.5	5	5	6	11	16	20
Analytic Method	CAS Number	Chemical Name	Unit								
7199	18540-29-9	Chromium (Hexavalent Compounds)	mg/kg	1.13 U	1.13 U	1.13 U	1.12 U	1.12 U	1.18 U	1.20 U	

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				Sample Name	SL-641-SA5C-SB-4.0-5.0	SL-641-SA5C-SB-9.0-10.0	SL-641-SA5C-SB-14.0-15.0	SL-641-SA5C-SB-18.5-19.5	SL-642-SA5C-SB-4.0-5.0	SL-642-SA5C-SB-9.0-10.0	SL-642-SA5C-SB-14.0-15.0
				Sample Type	N	N	N	N	N	N	N
				Sample Date	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
				SDG	12G048	12G048	12G048	12G048	12G048	12G048	12G048
				Start Depth	4	9	14	18.5	4	9	14
				End Depth	5	10	15	19.5	5	10	15
Analytic Method	CAS Number	Chemical Name	Unit								
7199	18540-29-9	Chromium (Hexavalent Compounds)	mg/kg		1.12 U	1.09 U	1.17 U	1.17 U	1.11 U	1.12 U	1.16 U

				Sample Name	SL-642-SA5C-SB-17.5-18.5	SL-695-SA5C-SB-0.0-0.5	SL-995-SA5C-SB-0.0-0.5	SL-695-SA5C-SB-4.0-5.0	SL-695-SA5C-SB-9.0-10.0	SL-703-SA5C-SB-0.0-0.5	SL-703-SA5C-SB-4.0-5.0
				Sample Type	N	N	FD	N	N	N	N
				Sample Date	07/10/2012	04/26/2012	04/26/2012	05/16/2012	05/16/2012	04/26/2012	06/18/2012
				SDG	12G048	12D256	12D256	12E116	12E116	12D256	12F120
				Start Depth	17.5	0	0	4	9	0	4
				End Depth	18.5	0.5	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
7199	18540-29-9	Chromium (Hexavalent Compounds)	mg/kg		1.11 U	1.08 U	1.08 U	1.09 U	1.16 U	1.09 U	1.12 U

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Appendix A8  
Hexavalent Chromium-Validated Data  
HSA - 5C - Phase 3

				Sample Name	SL-703-SA5C-SB-9.0-10.0	SL-715-SA5C-SB-0.0-0.5	SL-715-SA5C-SB-6.0-7.0	SL-730-SA5C-SB-0.0-0.5	SL-730-SA5C-SB-4.0-5.0	SL-730-SA5C-SB-9.0-10.0	SL-731-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N
				Sample Date	06/18/2012	04/30/2012	06/14/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012
				SDG	12F120	12D275	12F102	12E169	12E169	12E169	12E169
				Start Depth	9	0	6	0	4	9	0
				End Depth	10	0.5	7	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
7199	18540-29-9	Chromium (Hexavalent Compounds)	mg/kg		1.13 U	1.05 U	1.07 U	1.10 U	1.13 U	1.14 U	1.11 U

				Sample Name	SL-731-SA5C-SB-4.0-5.0	SL-731-SA5C-SB-9.0-10.0	SL-732-SA5C-SB-5.0-6.0	SL-732-SA5C-SB-10.5-11.5	SL-733-SA5C-SB-0.0-0.5	SL-733-SA5C-SB-4.0-5.0	SL-733-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	N	N	N	N
				Sample Date	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012
				SDG	12E169	12E169	12E169	12E169	12E169	12E169	12E169
				Start Depth	4	9	5	10.5	0	4	9
				End Depth	5	10	6	11.5	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
7199	18540-29-9	Chromium (Hexavalent Compounds)	mg/kg	1.14 U	1.10 U	1.12 U	1.07 U	1.09 U	1.11 U	1.12 U	

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				Sample Name	SL-741-SA5C-SB-0.0-0.5	SL-741-SA5C-SB-4.0-5.0	SL-741-SA5C-SB-9.0-10.0	SL-742-SA5C-SB-0.0-0.5	SL-752-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N
				Sample Date	07/24/2012	07/24/2012	07/24/2012	07/24/2012	05/30/2012
				SDG	12G199	12G199	12G199	12G199	12E244
				Start Depth	0	4	9	0	0
				End Depth	0.5	5	10	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit						
7199	18540-29-9	Chromium (Hexavalent Compounds)	mg/kg	1.10 U	1.13 U	1.14 U	1.09 U	1.15 U	

				Sample Name	SL-501-SA5C-SB-0.0-0.5	SL-501-SA5C-SB-4.0-5.0	SL-502-SA5C-SB-0.0-0.5	SL-802-SA5C-SB-0.0-0.5	SL-502-SA5C-SB-4.5-5.5	SL-507-SA5C-SB-0.0-0.5	SL-507-SA5C-SB-2.5-3.5	SL-508-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	FD	N	N	N	N
				Sample Date	04/20/2012	06/28/2012	04/20/2012	04/20/2012	06/28/2012	04/20/2012	06/11/2012	04/20/2012
				SDG	12D191	12F232	12D191	12D191	12F232	12D191	12F071	12D191
				Start Depth	0	4	0	0	4.5	0	2.5	0
				End Depth	0.5	5	0.5	0.5	5.5	0.5	3.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg	0.0762 J Z	0.111 U	0.119 U	0.115 U	0.110 U	0.110 U	0.108 U	0.109 U	

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 R - Result is rejected

				Sample Name	SL-508-SA5C-SB-4.0-5.0	SL-508-SA5C-SB-6.5-7.5	SL-509-SA5C-SB-0.0-0.5	SL-509-SA5C-SB-4.0-5.0	SL-809-SA5C-SB-4.0-5.0	SL-509-SA5C-SB-9.0-10.0	SL-510-SA5C-SB-0.0-0.5	SL-512A-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	06/11/2012	06/11/2012	04/20/2012	06/11/2012	06/11/2012	06/11/2012	04/19/2012	04/23/2012
				SDG	12F071	12F071	12D191	12F071	12F071	12F071	12D175	12D198
				Start Depth	4	6.5	0	4	4	9	0	0
				End Depth	5	7.5	0.5	5	5	10	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.110 U	0.107 U	0.107 U	0.108 U	0.109 U	0.108 U	0.156	0.113 U

				Sample Name	SL-512-SA5C-SB-0.0-0.5	SL-812-SA5C-SB-0.0-0.5	SL-512-SA5C-SB-4.0-5.0	SL-512-SA5C-SB-6.0-7.0	SL-513-SA5C-SB-0.0-0.5	SL-513-SA5C-SB-4.0-5.0	SL-513-SA5C-SB-9.0-10.0	SL-514-SA5C-SB-0.0-0.5
				Sample Type	N	FD	N	N	N	N	N	N
				Sample Date	05/10/2012	05/10/2012	05/10/2012	05/10/2012	04/19/2012	05/10/2012	05/14/2012	04/17/2012
				SDG	12E082	12E082	12E082	12E082	12D175	12E082	12E098	12D155
				Start Depth	0	0	4	6	0	4	9	0
				End Depth	0.5	0.5	5	7	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg	0.109 U	0.110 U	0.115 U	0.115 U	0.117 U	0.113 U	0.113 U	0.113 U	0.116 U

U - Compound not detected above the reporting limit  
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 R - Result is rejected

				Sample Name	SL-814-SA5C-SB-0.0-0.5	SL-514-SA5C-SB-4.0-5.0	SL-514-SA5C-SB-9.0-10.0	SL-515-SA5C-SB-0.0-0.5	SL-515-SA5C-SB-4.0-5.0	SL-515-SA5C-SB-9.0-10.0	SL-516-SA5C-SB-0.0-0.5	SL-516-SA5C-SB-4.0-5.0
				Sample Type	FD	N	N	N	N	N	N	N
				Sample Date	04/17/2012	05/14/2012	05/14/2012	04/19/2012	06/25/2012	06/25/2012	04/19/2012	04/19/2012
				SDG	12D155	12E098	12E098	12D175	12F182	12F182	12D175	12D175
				Start Depth	0	4	9	0	4	9	0	4
				End Depth	0.5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.114 U	0.107 U	0.107 U	0.111 U	0.112 U	0.109 U	0.31	0.114 U

				Sample Name	SL-517-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-4.0-5.0	SL-518-SA5C-SB-9.0-10.0	SL-520-SA5C-SB-0.0-0.5	SL-520-SA5C-SB-6.5-7.5	SL-521-SA5C-SB-0.0-0.5	SL-521-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/19/2012	04/19/2012	06/11/2012	06/11/2012	04/23/2012	06/11/2012	06/11/2012	06/11/2012
				SDG	12D175	12D175	12F071	12F071	12D198	12F071	12F071	12F071
				Start Depth	0	0	4	9	0	6.5	0	4
				End Depth	0.5	0.5	5	10	0.5	7.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.0846 J Z	0.103 U	0.112 U	0.109 U	0.112 U	0.106 U	0.113 U	0.114 U

U - Compound not detected above the reporting limit  
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 R - Result is rejected

				Sample Name	SL-521-SA5C-SB-9.0-10.0	SL-522-SA5C-SB-0.0-0.5	SL-522-SA5C-SB-4.0-5.0	SL-822-SA5C-SB-4.0-5.0	SL-522-SA5C-SB-9.0-10.0	SL-523-SA5C-SB-0.0-0.5	SL-523-SA5C-SB-4.0-5.0	SL-523-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	FD	N	N	N	N
				Sample Date	06/11/2012	04/25/2012	07/09/2012	07/09/2012	07/09/2012	04/25/2012	07/09/2012	07/09/2012
				SDG	12F071	12D231	12G030	12G030	12G030	12D231	12G030	12G030
				Start Depth	9	0	4	4	9	0	4	9
				End Depth	10	0.5	5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.113 U	0.107 U	0.108 U	0.109 U	0.107 U	0.104 U	0.106 U	0.109 U

				Sample Name	SL-524-SA5C-SB-0.0-0.5	SL-524-SA5C-SB-4.0-5.0	SL-525-SA5C-SB-0.0-0.5	SL-525-SA5C-SB-4.0-5.0	SL-525-SA5C-SB-9.0-10.0	SL-526-SA5C-SB-0.0-0.5	SL-526-SA5C-SB-4.0-5.0	SL-526-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/24/2012	06/19/2012	04/24/2012	06/19/2012	06/19/2012	04/25/2012	06/19/2012	06/19/2012
				SDG	12D208	12F132	12D208	12F132	12F132	12D231	12F132	12F132
				Start Depth	0	4	0	4	9	0	4	9
				End Depth	0.5	5	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg	5.34	0.0584 J Z	0.405	0.107 U	0.573	0.0782 J Z	0.108 U	0.109 U	

U - Compound not detected above the reporting limit  
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R - Result is rejected

				SL-527-SA5C-SB-0.0-0.5	SL-527-SA5C-SB-4.0-5.0	SL-528-SA5C-SB-0.0-0.5	SL-528-SA5C-SB-4.0-5.0	SL-828-SA5C-SB-4.0-5.0	SL-529-SA5C-SB-0.0-0.5	SL-529-SA5C-SB-4.0-5.0	SL-530-SA5C-SB-0.0-0.5
Sample Name				N	N	N	N	FD	N	N	N
Sample Type				04/25/2012	06/19/2012	04/25/2012	06/19/2012	06/19/2012	04/25/2012	05/09/2012	04/25/2012
Sample Date				12D231	12F132	12D231	12F132	12F132	12D231	12E082	12D231
SDG				0	4	0	4	4	0	4	0
Start Depth				0.5	5	0.5	5	5	0.5	5	0.5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
7471A	7439-97-6	Mercury	mg/kg	0.107 U	0.108 U	0.266	0.136 J FD	0.0815 J FD, Z	0.269	0.108 U	0.106 U

				Sample Name	SL-530-SA5C-SB-4.0-5.0	SL-530-SA5C-SB-9.0-10.0	SL-531-SA5C-SB-0.0-0.5	SL-531-SA5C-SB-4.0-5.0	SL-531-SA5C-SB-9.0-10.0	SL-532-SA5C-SB-0.0-0.5	SL-533-SA5C-SB-0.0-0.5	SL-533-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	07/09/2012	07/09/2012	04/25/2012	07/09/2012	07/09/2012	04/23/2012	04/23/2012	07/09/2012
				SDG	12G030	12G030	12D231	12G030	12G030	12D198	12D198	12G030
				Start Depth	4	9	0	4	9	0	0	4
				End Depth	5	10	0.5	5	10	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.112 U	0.104 U	0.106 U	0.109 U	0.109 U	0.110 U	0.103 U	0.110 U

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				Sample Name	SL-533-SA5C-SB-9.0-10.0	SL-536-SA5C-SB-0.0-0.5	SL-536-SA5C-SB-4.0-5.0	SL-536-SA5C-SB-9.0-10.0	SL-537-SA5C-SB-0.0-0.5	SL-537-SA5C-SB-4.0-5.0	SL-537-SA5C-SB-9.0-10.0	SL-539-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	07/09/2012	05/08/2012	06/01/2012	06/01/2012	06/07/2012	06/07/2012	06/07/2012	06/05/2012
				SDG	12G030	12E055	12F020	12F020	12F051	12F051	12F051	12F037
				Start Depth	9	0	4	9	0	4	9	0
				End Depth	10	0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.110 U	0.107 U	0.107 U	0.110 U	0.112 U	0.115 U	0.115 U	0.112 U

				Sample Name	SL-539-SA5C-SB-6.0-7.0	SL-542-SA5C-SB-0.0-0.5	SL-542-SA5C-SB-1.0-2.0	SL-543-SA5C-SB-0.0-0.5	SL-543-SA5C-SB-3.5-4.5	SL-544-SA5C-SB-0.0-0.5	SL-544-SA5C-SB-5.0-6.0	SL-545-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/05/2012	05/09/2012	05/09/2012	06/05/2012	06/05/2012	05/30/2012	05/30/2012	06/04/2012
				SDG	12F037	12E067	12E067	12F037	12F037	12E244	12E244	12F037
				Start Depth	6	0	1	0	3.5	0	5	0
				End Depth	7	0.5	2	0.5	4.5	0.5	6	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.110 U	0.100 U	0.111 U	0.110 U	0.107 U	0.108 U	0.114 U	0.114 U

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				Sample Name	SL-545-SA5C-SB-4.0-5.0	SL-545-SA5C-SB-9.0-10.0	SL-546-SA5C-SB-0.0-0.5	SL-546-SA5C-SB-4.0-5.0	SL-846-SA5C-SB-4.0-5.0	SL-546-SA5C-SB-9.0-10.0	SL-547-SA5C-SB-0.0-0.5	SL-547-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	06/04/2012	06/04/2012	06/06/2012	06/06/2012	06/06/2012	06/06/2012	05/08/2012	06/07/2012
				SDG	12F037	12F037	12F044	12F044	12F044	12F044	12E055	12F051
				Start Depth	4	9	0	4	4	9	0	4
				End Depth	5	10	0.5	5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.113 U	0.114 U	0.111 U	0.115 U	0.116 U	0.116 U	0.113 U	0.109 U

				Sample Name	SL-547-SA5C-SB-9.0-10.0	SL-548-SA5C-SB-0.0-0.5	SL-548-SA5C-SB-4.0-5.0	SL-548-SA5C-SB-9.0-10.0	SL-550-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-4.0-5.0	SL-552-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/07/2012	05/08/2012	06/07/2012	06/07/2012	05/30/2012	06/05/2012	06/05/2012	06/05/2012
				SDG	12F051	12E055	12F051	12F051	12E244	12F037	12F037	12F037
				Start Depth	9	0	4	9	0	0	4	0
				End Depth	10	0.5	5	10	0.5	0.5	4	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.107 U	0.117 U	0.115 U	0.112 U	0.108 U	0.115 U	0.111 U	0.106 U

U - Compound not detected above the reporting limit  
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 R - Result is rejected

				Sample Name	SL-554-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-2.5-3.5	SL-559-SA5C-SB-0.0-0.5	SL-559-SA5C-SB-2.0-3.0	SL-559-SA5C-SB-7.0-8.0	SL-560-SA5C-SB-0.0-0.5	SL-560-SA5C-SB-6.5-7.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/29/2012	05/29/2012	05/29/2012	06/07/2012	06/07/2012	06/07/2012	05/30/2012	05/30/2012
				SDG	12E229	12E229	12E229	12F051	12F051	12F051	12E244	12E244
				Start Depth	0	0	2.5	0	2	7	0	6.5
				End Depth	0.5	0.5	3.5	0.5	3	8	0.5	7.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.111 U	0.113 U	0.115 U	0.116 U	0.116 U	0.114 U	0.117 U	0.112 U

				Sample Name	SL-561-SA5C-SB-0.0-0.5	SL-561-SA5C-SB-5.5-6.5	SL-570-SA5C-SB-0.0-0.5	SL-570-SA5C-SB-2.0-3.0	SL-571-SA5C-SB-0.0-0.5	SL-571-SA5C-SB-4.0-5.0	SL-571-SA5C-SB-9.0-10.0	SL-572-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/05/2012	06/05/2012	04/18/2012	04/18/2012	04/26/2012	06/07/2012	06/07/2012	06/19/2012
				SDG	12F037	12F037	12D165	12D165	12D256	12F051	12F051	12F132
				Start Depth	0	5.5	0	2	0	4	9	0
				End Depth	0.5	6.5	0.5	3	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg	0.112 U	0.106 U	0.107 U	0.108 U	0.114 U	0.111 U	0.112 U	0.112 U	

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

				Sample Name	SL-572-SA5C-SB-4.0-5.0	SL-872-SA5C-SB-4.0-5.0	SL-574-SA5C-SB-0.0-0.5	SL-574-SA5C-SB-4.0-5.0	SL-574-SA5C-SB-9.0-10.0	SL-575-SA5C-SB-0.0-0.5	SL-575-SA5C-SB-4.0-5.0	SL-577-SA5C-SB-0.0-0.5
				Sample Type	N	FD	N	N	N	N	N	N
				Sample Date	06/19/2012	06/19/2012	04/20/2012	06/11/2012	06/11/2012	04/19/2012	06/25/2012	04/17/2012
				SDG	12F132	12F132	12D191	12F071	12F071	12D175	12F182	12D155
				Start Depth	4	4	0	4	9	0	4	0
				End Depth	5	5	0.5	5	10	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.106 U	0.107 U	0.116 U	0.109 U	0.114 U	0.116 U	0.110 U	0.0594 J Z

				Sample Name	SL-578-SA5C-SB-0.0-0.5	SL-578-SA5C-SB-4.0-5.0	SL-579-SA5C-SB-0.0-0.5	SL-579-SA5C-SB-4.0-5.0	SL-580-SA5C-SB-0.0-0.5	SL-580-SA5C-SB-4.0-5.0	SL-581-SA5C-SB-0.0-0.5	SL-581-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/17/2012	06/27/2012	04/18/2012	04/18/2012	04/18/2012	04/18/2012	04/17/2012	06/26/2012
				SDG	12D155	12F215	12D165	12D165	12D165	12D165	12D155	12F197
				Start Depth	0	4	0	4	0	4	0	4
				End Depth	0.5	5	0.5	5	0.5	5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.112 U	0.109 U	0.112 U	0.110 U	0.115 U	0.111 U	0.113 U	0.113 U

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

				Sample Name	SL-881-SA5C-SB-4.0-5.0	SL-583-SA5C-SB-0.0-0.5	SL-583-SA5C-SB-4.0-5.0	SL-584-SA5C-SB-0.0-0.5	SL-584-SA5C-SB-4.0-5.0	SL-585-SA5C-SB-0.0-0.5	SL-585-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-0.0-0.5
				Sample Type	FD	N	N	N	N	N	N	N
				Sample Date	06/26/2012	07/24/2012	07/24/2012	05/03/2012	06/21/2012	05/02/2012	06/21/2012	05/07/2012
				SDG	12F197	12G199	12G199	12E034	12F162	12E018	12F162	12E049
				Start Depth	4	0	4	0	4	0	4	0
				End Depth	5	0.5	5	0.5	5	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.112 U	0.110 U	0.123 U	0.115 U	0.114 U	0.107 U	0.104 U	0.184

				Sample Name	SL-586-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-9.0-10.0	SL-587-SA5C-SB-0.0-0.5	SL-587-SA5C-SB-4.0-5.0	SL-887-SA5C-SB-4.0-5.0	SL-587-SA5C-SB-8.5-9.5	SL-589-SA5C-SB-0.0-0.5	SL-589-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	07/11/2012	07/11/2012	05/02/2012	06/20/2012	06/20/2012	06/20/2012	05/07/2012	07/11/2012
				SDG	12G064	12G064	12E018	12F146	12F146	12F146	12E049	12G064
				Start Depth	4	9	0	4	4	8.5	0	4
				End Depth	5	10	0.5	5	5	9.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg	0.108 U	0.113 U	0.114 U	0.114 U	0.112 U	0.112 U	0.108 U	0.111 U	

U - Compound not detected above the reporting limit  
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R - Result is rejected

				Sample Name	SL-591-SA5C-SB-0.0-0.5	SL-591-SA5C-SB-4.0-5.0	SL-592-SA5C-SB-0.0-0.5	SL-592-SA5C-SB-5.0-6.0	SL-594-SA5C-SB-0.0-0.5	SL-594-SA5C-SB-5.0-6.0	SL-594-SA5C-SB-9.0-10.0	SL-599-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/02/2012	07/11/2012	05/07/2012	07/11/2012	06/21/2012	06/21/2012	06/21/2012	05/02/2012
				SDG	12E018	12G064	12E049	12G064	12F162	12F162	12F162	12E018
				Start Depth	0	4	0	5	0	5	9	0
				End Depth	0.5	5	0.5	6	0.5	6	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.112 U	0.112 U	0.108 U	0.106 U	0.114 U	0.114 U	0.121 U	0.0608 J Z

				Sample Name	SL-599-SA5C-SB-4.0-5.0	SL-600-SA5C-SB-0.0-0.5	SL-600-SA5C-SB-4.0-5.0	SL-603-SA5C-SB-0.0-0.5	SL-903-SA5C-SB-0.0-0.5	SL-603-SA5C-SB-4.0-5.0	SL-604-SA5C-SB-0.0-0.5	SL-604-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	06/21/2012	05/02/2012	06/21/2012	05/03/2012	05/03/2012	06/21/2012	05/02/2012	06/20/2012
				SDG	12F162	12E018	12F162	12E034	12E034	12F162	12E018	12F146
				Start Depth	4	0	4	0	0	4	0	4
				End Depth	5	0.5	5	0.5	0.5	5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.105 U	0.120 U	0.106 U	0.31	0.314	0.111 U	0.111 U	0.106 U

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

				Sample Name	SL-606-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-4.0-5.0	SL-607-SA5C-SB-9.0-10.0	SL-608-SA5C-SB-0.0-0.5	SL-608-SA5C-SB-2.0-3.0	SL-609-SA5C-SB-0.0-0.5	SL-609-SA5C-SB-3.0-4.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/03/2012	07/11/2012	07/11/2012	07/11/2012	05/09/2012	05/31/2012	05/09/2012	05/31/2012
				SDG	12E034	12G064	12G064	12G064	12E067	12E267	12E067	12E267
				Start Depth	0	0	4	9	0	2	0	3
				End Depth	0.5	0.5	5	10	0.5	3	0.5	4
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.105 U	0.114 U	0.115 U	0.114 U	0.103 U	0.105 U	0.112 U	0.109 U

				Sample Name	SL-610-SA5C-SB-0.0-0.5	SL-611-SA5C-SB-0.0-0.5	SL-611-SA5C-SB-5.0-6.0	SL-612-SA5C-SB-0.0-0.5	SL-612-SA5C-SB-4.0-5.0	SL-912-SA5C-SB-4.0-5.0	SL-612-SA5C-SB-7.0-8.0	SL-615-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	FD	N	N
				Sample Date	05/31/2012	05/31/2012	05/31/2012	05/03/2012	05/31/2012	05/31/2012	05/31/2012	05/07/2012
				SDG	12E267	12E267	12E267	12E034	12E267	12E267	12E267	12E049
				Start Depth	0	0	5	0	4	4	7	0
				End Depth	0.5	0.5	6	0.5	5	5	8	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.105 U	0.110 U	0.112 U	0.106 U	0.108 U	0.106 U	0.111 U	0.112 U

U - Compound not detected above the reporting limit  
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R - Result is rejected

				Sample Name	SL-615-SA5C-SB-4.0-5.0	SL-615-SA5C-SB-9.0-10.0	SL-618-SA5C-SB-0.0-1.0	SL-619-SA5C-SB-0.0-0.5	SL-620-SA5C-SB-0.0-0.5	SL-621-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/05/2012	06/05/2012	05/30/2012	05/30/2012	05/29/2012	05/30/2012	04/25/2012	07/09/2012
				SDG	12F037	12F037	12E267	12E267	12E229	12E244	12D231	12G030
				Start Depth	4	9	0	0	0	0	0	4
				End Depth	5	10	1	0.5	0.5	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.114 U	0.110 U	0.103 U	0.106 U	0.106 U	0.108 U	0.0588 J Z	0.110 U

				Sample Name	SL-623-SA5C-SB-9.0-10.0	SL-628-SA5C-SB-11.5-12.5	SL-630-SA5C-SB-8.0-9.0	SL-640-SA5C-SB-5.0-6.0	SL-640-SA5C-SB-10.0-11.0	SL-640-SA5C-SB-15.0-16.0	SL-640-SA5C-SB-19.0-20.0
				Sample Type	N	N	N	N	N	N	N
				Sample Date	07/09/2012	06/20/2012	06/20/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
				SDG	12G030	12F146	12F146	12G048	12G048	12G048	12G048
				Start Depth	9	11.5	8	5	10	15	19
				End Depth	10	12.5	9	6	11	16	20
Analytic Method	CAS Number	Chemical Name	Unit								
7471A	7439-97-6	Mercury	mg/kg	0.105 U	0.108 U	0.108 U	0.112 U	0.112 U	0.118 U	0.120 U	

U - Compound not detected above the reporting limit  
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 R - Result is rejected

				Sample Name	SL-641-SA5C-SB-4.0-5.0	SL-641-SA5C-SB-9.0-10.0	SL-641-SA5C-SB-14.0-15.0	SL-641-SA5C-SB-18.5-19.5	SL-642-SA5C-SB-4.0-5.0	SL-642-SA5C-SB-9.0-10.0	SL-642-SA5C-SB-14.0-15.0
				Sample Type	N	N	N	N	N	N	N
				Sample Date	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
				SDG	12G048	12G048	12G048	12G048	12G048	12G048	12G048
				Start Depth	4	9	14	18.5	4	9	14
				End Depth	5	10	15	19.5	5	10	15
Analytic Method	CAS Number	Chemical Name	Unit								
7471A	7439-97-6	Mercury	mg/kg	0.112 U	0.109 U	0.117 U	0.117 U	0.111 U	0.112 U	0.116 U	

				Sample Name	SL-642-SA5C-SB-17.5-18.5	SL-670-SA5C-SB-0.0-0.5	SL-670-SA5C-SB-4.0-5.0	SL-671-SA5C-SB-0.0-0.5	SL-671-SA5C-SB-2.0-3.0	SL-672-SA5C-SB-0.0-0.5	SL-672-SA5C-SB-4.0-5.0	SL-673-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	07/10/2012	06/19/2012	06/19/2012	05/08/2012	05/23/2012	05/24/2012	05/24/2012	05/08/2012
				SDG	12G048	12F132	12F132	12E055	12E187	12E204	12E204	12E055
				Start Depth	17.5	0	4	0	2	0	4	0
				End Depth	18.5	0.5	5	0.5	3	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.112 U	0.113 U	0.108 U	0.234	0.110 U	0.112 U	0.118 U	0.109 U

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

				SL-674-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-2.5-3.5	SL-675-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-4.0-5.0	SL-976-SA5C-SB-4.0-5.0	SL-677-SA5C-SB-0.0-0.5	SL-677-SA5C-SB-4.0-5.0
Sample Name				N	N	N	N	N	FD	N	N
Sample Type				05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/24/2012	05/24/2012
Sample Date				12E187	12E187	12E187	12E187	12E187	12E187	12E204	12E204
SDG				0	2.5	0	0	4	4	0	4
Start Depth				0.5	3.5	0.5	0.5	5	5	0.5	5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
7471A	7439-97-6	Mercury	mg/kg	0.110 U	0.109 U	0.105 U	0.113 U	0.113 U	0.112 U	0.115 U	0.113 U

				Sample Name	SL-678-SA5C-SB-0.0-0.5	SL-678-SA5C-SB-2.5-3.5	SL-679-SA5C-SB-0.0-0.5	SL-680-SA5C-SB-0.0-0.5	SL-681-SA5C-SB-0.0-0.5	SL-681-SA5C-SB-4.0-5.0	SL-681-SA5C-SB-7.5-8.5	SL-682-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/23/2012	05/23/2012	04/12/2012	04/17/2012	04/12/2012	05/23/2012	05/23/2012	05/22/2012
				SDG	12E187	12E187	12D121	12D155	12D121	12E187	12E187	12E169
				Start Depth	0	2.5	0	0	0	4	7.5	0
				End Depth	0.5	3.5	0.5	0.5	0.5	5	8.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg	0.110 U	0.109 U	0.111 UJ H	0.116 U	0.107 UJ H	0.110 U	0.108 U	0.111 U	

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				Sample Name	SL-682-SA5C-SB-4.0-5.0	SL-682-SA5C-SB-9.0-10.0	SL-683-SA5C-SB-0.0-0.5	SL-683-SA5C-SB-4.0-5.0	SL-683-SA5C-SB-7.0-8.0	SL-684-SA5C-SB-0.0-0.5	SL-684-SA5C-SB-2.5-3.5	SL-685-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/22/2012	05/22/2012	04/12/2012	06/13/2012	06/13/2012	04/12/2012	06/13/2012	04/12/2012
				SDG	12E169	12E169	12D121	12F093	12F093	12D121	12F093	12D121
				Start Depth	4	9	0	4	7	0	2.5	0
				End Depth	5	10	0.5	5	8	0.5	3.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg	0.114 U	0.113 U	0.110 UJ H	0.108 U	0.111 U	0.117 UJ H	0.106 U	0.110 UJ H	

				Sample Name	SL-685-SA5C-SB-4.0-5.0	SL-685-SA5C-SB-7.0-8.0	SL-686-SA5C-SB-0.0-0.5	SL-686-SA5C-SB-4.0-5.0	SL-686-SA5C-SB-9.0-10.0	SL-687-SA5C-SB-0.0-0.5	SL-687-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/13/2012	06/13/2012	04/12/2012	05/17/2012	05/17/2012	04/16/2012	06/12/2012	04/16/2012
				SDG	12F093	12F093	12D121	12E134	12E134	12D147	12F074	12D147
				Start Depth	4	7	0	4	9	0	4	0
				End Depth	5	8	0.5	5	10	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg	0.106 U	0.112 U	0.136 J H	0.109 U	0.110 U	0.117 U	0.107 U	0.107 U	0.107 U

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 R - Result is rejected

				Sample Name	SL-688-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-9.0-10.0	SL-689-SA5C-SB-0.0-0.5	SL-689-SA5C-SB-4.0-5.0	SL-689-SA5C-SB-7.5-8.5	SL-690-SA5C-SB-0.0-0.5	SL-690-SA5C-SB-3.5-4.5	SL-691-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/12/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012	04/16/2012	06/12/2012	04/16/2012
				SDG	12F074	12F074	12D147	12F074	12F074	12D147	12F074	12D147
				Start Depth	4	9	0	4	7.5	0	3.5	0
				End Depth	5	10	0.5	5	8.5	0.5	4.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.112 U	0.110 U	0.119 U	0.109 U	0.110 U	0.114 U	0.109 U	0.112 U

				SL-692-SA5C-SB-0.0-0.5	SL-692-SA5C-SB-5.0-6.0	SL-693-SA5C-SB-0.0-0.5	SL-693-SA5C-SB-4.0-5.0	SL-693-SA5C-SB-9.0-10.0	SL-694-SA5C-SB-0.0-0.5	SL-694-SA5C-SB-4.0-5.0	SL-694-SA5C-SB-9.0-10.0
Sample Name				N	N	N	N	N	N	N	N
Sample Type				04/16/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012	05/24/2012	05/24/2012	05/24/2012
Sample Date				12D147	12F074	12D147	12F074	12F074	12E204	12E204	12E204
SDG				0	5	0	4	9	0	4	9
Start Depth				0.5	6	0.5	5	10	0.5	5	10
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
7471A	7439-97-6	Mercury	mg/kg	0.118 U	0.108 U	0.119 U	0.108 U	0.109 U	0.117 U	0.110 U	0.115 U

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

				Sample Name	SL-695-SA5C-SB-0.0-0.5	SL-995-SA5C-SB-0.0-0.5	SL-695-SA5C-SB-4.0-5.0	SL-695-SA5C-SB-9.0-10.0	SL-696-SA5C-SB-1.0-2.0	SL-696-SA5C-SB-4.0-5.0	SL-696-SA5C-SB-9.0-10.0	SL-702-SA5C-SB-0.0-0.5
				Sample Type	N	FD	N	N	N	N	N	N
				Sample Date	04/26/2012	04/26/2012	05/16/2012	05/16/2012	06/18/2012	06/18/2012	06/18/2012	04/26/2012
				SDG	12D256	12D256	12E116	12E116	12F120	12F120	12F120	12D256
				Start Depth	0	0	4	9	1	4	9	0
				End Depth	0.5	0.5	5	10	2	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.108 U	0.107 U	0.107 U	0.115 U	0.108 U	0.109 U	0.109 U	0.105 U

				SL-702-SA5C-SB-4.0-5.0	SL-702-SA5C-SB-9.0-10.0	SL-703-SA5C-SB-0.0-0.5	SL-703-SA5C-SB-4.0-5.0	SL-703-SA5C-SB-9.0-10.0	SL-704-SA5C-SB-0.0-0.5	SL-704-SA5C-SB-4.0-5.0	SL-704-SA5C-SB-9.0-10.0
Sample Name				N	N	N	N	N	N	N	N
Sample Type				06/18/2012	06/18/2012	04/26/2012	06/18/2012	06/18/2012	05/24/2012	05/24/2012	05/24/2012
Sample Date				12F120	12F120	12D256	12F120	12F120	12E204	12E204	12E204
SDG				4	9	0	4	9	0	4	9
Start Depth				5	10	0.5	5	10	0.5	5	10
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
7471A	7439-97-6	Mercury	mg/kg	0.110 U	0.109 U	0.109 U	0.112 U	0.112 U	0.111 U	0.116 U	0.111 U

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R - Result is rejected

				Sample Name	SL-705-SA5C-SB-0.0-0.5	SL-705-SA5C-SB-4.0-5.0	SL-705-SA5C-SB-9.0-10.0	SL-706-SA5C-SB-0.0-0.5	SL-706-SA5C-SB-4.0-5.0	SL-706-SA5C-SB-9.0-10.0	SL-707-SA5C-SB-13.0-14.0	SL-709-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/24/2012	05/24/2012	05/24/2012	05/29/2012	05/29/2012	05/29/2012	06/14/2012	04/26/2012
				SDG	12E204	12E204	12E204	12E229	12E229	12E229	12F102	12D256
				Start Depth	0	4	9	0	4	9	13	0
				End Depth	0.5	5	10	0.5	5	10	14	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.112 U	0.111 U	0.114 U	0.106 U	0.109 U	0.109 U	0.109 U	0.574

				SL-709-SA5C-SB-4.0-5.0	SL-709-SA5C-SB-9.0-10.0	SL-711-SA5C-SB-0.0-0.5	SL-711-SA5C-SB-4.0-5.0	SL-711-SA5C-SB-9.0-10.0	SL-712-SA5C-SB-0.0-0.5	SL-712-SA5C-SB-4.0-5.0	SL-712-SA5C-SB-9.0-10.0
Sample Name				N	N	N	N	N	N	N	N
Sample Type				06/14/2012	06/14/2012	04/26/2012	06/14/2012	06/14/2012	04/30/2012	06/14/2012	06/14/2012
Sample Date				12F102	12F102	12D256	12F102	12F102	12D275	12F102	12F102
SDG				4	9	0	4	9	0	4	9
Start Depth				5	10	0.5	5	10	0.5	5	10
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
7471A	7439-97-6	Mercury	mg/kg	0.112 U	0.113 U	0.106 U	0.111 U	0.108 U	0.104 U	0.113 U	0.110 U

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

				Sample Name	SL-713-SA5C-SB-0.0-0.5	SL-713-SA5C-SB-6.0-7.0	SL-715-SA5C-SB-0.0-0.5	SL-715-SA5C-SB-6.0-7.0	SL-716-SA5C-SB-0.0-0.5	SL-716-SA5C-SB-5.5-6.5	SL-717-SA5C-SB-0.0-0.5	SL-717-SA5C-SB-6.0-7.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/30/2012	06/14/2012	04/30/2012	06/14/2012	05/02/2012	06/13/2012	05/02/2012	06/13/2012
				SDG	12D275	12F102	12D275	12F102	12E018	12F102	12E018	12F093
				Start Depth	0	6	0	6	0	5.5	0	6
				End Depth	0.5	7	0.5	7	0.5	6.5	0.5	7
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.107 U	0.108 U	0.104 U	0.105 U	0.106 U	0.108 U	0.103 U	0.110 U

				Sample Name	SL-718-SA5C-SB-0.0-0.5	SL-718-SA5C-SB-4.0-5.0	SL-718-SA5C-SB-8.0-9.0	SL-719-SA5C-SB-0.0-0.5	SL-719-SA5C-SB-6.0-7.0	SL-720-SA5C-SB-0.0-0.5	SL-720-SA5C-SB-4.5-5.5	SL-1022-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	FD
				Sample Date	05/02/2012	06/13/2012	06/13/2012	05/02/2012	06/14/2012	04/30/2012	06/13/2012	05/01/2012
				SDG	12E018	12F093	12F093	12E018	12F102	12D275	12F093	12E004
				Start Depth	0	4	8	0	6	0	4.5	0
				End Depth	0.5	5	9	0.5	7	0.5	5.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg	0.104 U	0.102 U	0.111 U	0.104 U	0.107 U	0.106 U	0.112 U	0.104 U	

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

				SL-722-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-6.0-7.0	SL-723-SA5C-SB-0.0-0.5	SL-723-SA5C-SB-4.0-5.0	SL-723-SA5C-SB-9.0-10.0	SL-724-SA5C-SB-0.0-0.5	SL-724-SA5C-SB-4.0-5.0	SL-724-SA5C-SB-9.0-10.0
Sample Name				N	N	N	N	N	N	N	N
Sample Type				05/01/2012	06/13/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012
Sample Date				12E004	12F093	12E229	12E229	12E229	12E229	12E229	12E229
SDG				0	6	0	4	9	0	4	9
Start Depth				0.5	7	0.5	5	10	0.5	5	10
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
7471A	7439-97-6	Mercury	mg/kg	0.103 U	0.110 U	0.105 U	0.113 U	0.107 U	0.115 U	0.115 U	0.114 U

				Sample Name	SL-727-SA5C-SB-0.0-0.5	SL-1027-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-9.0-10.0	SL-730-SA5C-SB-0.0-0.5	SL-730-SA5C-SB-4.0-5.0	SL-730-SA5C-SB-9.0-10.0	SL-731-SA5C-SB-0.0-0.5
				Sample Type	N	FD	N	N	N	N	N	N
				Sample Date	05/21/2012	05/21/2012	05/21/2012	05/21/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012
				SDG	12E155	12E155	12E155	12E155	12E169	12E169	12E169	12E169
				Start Depth	0	4	4	9	0	4	9	0
				End Depth	0.5	5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.108 U	0.113 U	0.113 U	0.112 U	0.110 U	0.112 U	0.114 U	0.110 U

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

				Sample Name	SL-731-SA5C-SB-4.0-5.0	SL-731-SA5C-SB-9.0-10.0	SL-732-SA5C-SB-5.0-6.0	SL-732-SA5C-SB-10.5-11.5	SL-733-SA5C-SB-0.0-0.5	SL-733-SA5C-SB-4.0-5.0	SL-733-SA5C-SB-9.0-10.0	SL-734-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/21/2012
				SDG	12E169	12E169	12E169	12E169	12E169	12E169	12E169	12E155
				Start Depth	4	9	5	10.5	0	4	9	0
				End Depth	5	10	6	11.5	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.113 U	0.108 U	0.112 U	0.107 U	0.0682 J Z	0.111 U	0.111 U	0.109 U

				Sample Name	SL-734-SA5C-SB-4.0-5.0	SL-734-SA5C-SB-9.0-10.0	SL-735-SA5C-SB-0.0-0.5	SL-735-SA5C-SB-4.0-5.0	SL-735-SA5C-SB-9.0-10.0	SL-736-SA5C-SB-2.0-3.0	SL-736-SA5C-SB-4.0-5.0	SL-736-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/21/2012	05/21/2012	04/12/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012
				SDG	12E155	12E155	12D121	12E134	12E134	12E134	12E134	12E134
				Start Depth	4	9	0	4	9	2	4	9
				End Depth	5	10	0.5	5	10	3	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.113 U	0.112 U	0.110 UJ H	0.110 U	0.110 U	0.107 U	0.107 U	0.112 U

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

				Sample Name	SL-737-SA5C-SB-0.0-0.5	SL-737-SA5C-SB-2.5-3.5	SL-737-SA5C-SB-4.0-5.0	SL-737-SA5C-SB-9.0-10.0	SL-738-SA5C-SB-0.0-0.5	SL-738-SA5C-SB-4.0-5.0	SL-738-SA5C-SB-9.0-10.0	SL-739-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/12/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012
				SDG	12D121	12E134	12E134	12E134	12E134	12E134	12E134	12E134
				Start Depth	0	2.5	4	9	0	4	9	0
				End Depth	0.5	3.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
7471A	7439-97-6	Mercury	mg/kg		0.108 UJ H	0.111 U	0.108 U	0.111 U	0.0673 J Z	0.111 U	0.111 U	0.107 U

				SL-739-SA5C-SB-4.0-5.0	SL-739-SA5C-SB-9.0-10.0	SL-741-SA5C-SB-0.0-0.5	SL-741-SA5C-SB-4.0-5.0	SL-741-SA5C-SB-9.0-10.0	SL-742-SA5C-SB-0.0-0.5	SL-747-SA5C-SB-0.0-0.5	SL-747-SA5C-SB-2.5-3.5
Sample Name				N	N	N	N	N	N	N	N
Sample Type				05/17/2012	05/17/2012	07/24/2012	07/24/2012	07/24/2012	07/24/2012	04/17/2012	06/26/2012
Sample Date				12E134	12E134	12G199	12G199	12G199	12G199	12D155	12F197
SDG				4	9	0	4	9	0	0	2.5
Start Depth				5	10	0.5	5	10	0.5	0.5	3.5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
7471A	7439-97-6	Mercury	mg/kg	0.112 U	0.110 U	0.110 U	0.112 U	0.112 U	0.108 U	0.0810 J Z	0.108 U

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

				SL-750-SA5C-SB-0.0-0.5	SL-750-SA5C-SB-5.5-6.5	SL-752-SA5C-SB-0.0-0.5	SL-754-SA5C-SB-0.0-0.5	SL-754-SA5C-SB-4.0-5.0	SL-754-SA5C-SB-6.5-7.5	SL-755-SA5C-SB-0.0-0.5	SL-755-SA5C-SB-4.0-5.0
Sample Name				N	N	N	N	N	N	N	N
Sample Type				05/29/2012	05/29/2012	05/30/2012	07/09/2012	07/09/2012	07/09/2012	07/10/2012	07/10/2012
Sample Date				12E229	12E229	12E244	12G030	12G030	12G030	12G048	12G048
SDG				0	5.5	0	0	4	6.5	0	4
Start Depth				0.5	6.5	0.5	0.5	5	7.5	0.5	5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
7471A	7439-97-6	Mercury	mg/kg	0.109 U	0.110 U	0.115 U	0.105 U	0.110 U	0.104 U	0.105 U	0.111 U

Sample Name				SL-755-SA5C-SB-5.5-6.5
Sample Type				N
Sample Date				07/10/2012
SDG				12G048
Start Depth				5.5
End Depth				6.5
Analytic Method	CAS Number	Chemical Name	Unit	
7471A	7439-97-6	Mercury	mg/kg	0.109 U

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

Sample Name				SL-501-SA5C-SB-0.0-0.5	SL-501-SA5C-SB-4.0-5.0	SL-502-SA5C-SB-0.0-0.5	SL-802-SA5C-SB-0.0-0.5	SL-502-SA5C-SB-4.5-5.5	SL-507-SA5C-SB-0.0-0.5	SL-507-SA5C-SB-2.5-3.5	SL-508-SA5C-SB-0.0-0.5
Sample Type				N	N	N	FD	N	N	N	N
Sample Date				04/20/2012	06/28/2012	04/20/2012	04/20/2012	06/28/2012	04/20/2012	06/11/2012	04/20/2012
SDG				12D191	12F232	12D191	12D191	12F232	12D191	12F071	12D191
Start Depth				0	4	0	0	4.5	0	2.5	0
End Depth				0.5	5	0.5	0.5	5.5	0.5	3.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	11900	20600	20000	15900	17200	15700	20900	14800
6020	7439-89-6	Iron	mg/kg	18900	27300	22400	20600	22700	18900	26800	18400
6020	7439-92-1	Lead	mg/kg	9.77	9.31	12.1	9.38	7.07	10.3	9.84	11.7
6020	7439-93-2	Lithium	mg/kg	25.8	28.6	23.5	25	22.3	12.8	21.5	14
6020	7439-95-4	Magnesium	mg/kg	4440	4940 J Q	4640	4500	4480 J Q	4070	5380	4540
6020	7439-96-5	Manganese	mg/kg	261	339	297	311	187	451	428	352
6020	7439-98-7	Molybdenum	mg/kg	0.393 J Z	0.404 J Z	0.492 J Z	0.419 J Z	0.231 J Z	0.64	0.427 J Z	0.419 J Z
6020	7440-02-0	Nickel	mg/kg	11.6	15.9	13.7	11.8	13	13.9	17.5	11.3
6020	9/7/7440	Potassium	mg/kg	3300	2580	3470	3430	1890	4180	2770	3840
6020	7440-22-4	Silver	mg/kg	1.8	0.154 J Z	0.390 J Z	0.322 J Z	0.0887 J Z	0.544 U	0.0573 J Z	0.541 U
6020	7440-23-5	Sodium	mg/kg	73.1 J Z	147	77.6 J Z	70.9 J Z	524	72.5 J Z	115	164
6020	7440-24-6	Strontium	mg/kg	17.6	28.3	28.7	21.7	52.1	23.9	30.3	25.2
6020	7440-28-0	Thallium	mg/kg	0.241 J Z	0.292 J Z	0.273 J Z	0.265 J Z	0.232 J Z	0.288 J Z	0.277 J Z	0.240 J Z
6020	7440-31-5	Tin	mg/kg	10.9 U	10.9 U	11.9 U	11.3 U	11.1 U	10.9 U	10.8 U	10.8 U
6020	7440-32-6	Titanium	mg/kg	860	910	856	876	705	879	797	972
6020	7440-36-0	Antimony	mg/kg	0.203 J Q, Z	0.219 J Q, Z	0.222 J Q, Z	0.178 J Q, Z	0.263 J Q, Z	0.209 J Q, Z	0.232 J Q, Z	0.182 J Q, Z
6020	7440-38-2	Arsenic	mg/kg	5.04	7.29	5.69	4.85	5.98	3.91	6.21	3.02
6020	7440-39-3	Barium	mg/kg	78.2	129	120	100	102	106	152	121
6020	7440-41-7	Beryllium	mg/kg	0.519 J Z	0.996	0.765	0.643	0.844	0.584	0.891	0.473 J Z
6020	7440-42-8	Boron	mg/kg	5.43 U	3.05 J Z	3.73 J Z	2.84 J Z	3.23 J Z	3.68 J Z	3.47 J Z	3.17 J Z
6020	7440-43-9	Cadmium	mg/kg	0.437 J Z	0.233 J Z	0.350 J Z	0.305 J Z	0.235 J Z	0.417 J Z	0.365 J Z	0.326 J Z
6020	7440-47-3	Chromium	mg/kg	17.7	26.8 J Q	23.4	19.9	22.8 J Q	20.7	26.2	17.6
6020	7440-48-4	Cobalt	mg/kg	5.56	7.9	6.79	6.49	5.98	8.7	9.67	7.62
6020	7440-50-8	Copper	mg/kg	37.6	11.8	13.2	11.3	9.02	12.8	11.5	11.2
6020	7440-62-2	Vanadium	mg/kg	29.6	49.3 J Q	42.8	36.4	42.0 J Q	39.3	50.4	36.5
6020	7440-66-6	Zinc	mg/kg	78.8	57.6	58.5	57.3	45.2	50.9	50.3	80.9
6020	7440-67-7	Zirconium	mg/kg	5.43 UJ Q	5.43 U	5.93 UJ Q	5.63 UJ Q	5.56 U	5.44 UJ Q	5.39 U	5.41 UJ Q
6020	7440-70-2	Calcium	mg/kg	3160	3450	3760	3030	35700	2780	3870 J Q, E	3780
6020	7723-14-0	Phosphorus	mg/kg	388	166	241	278	108	218	178 J Q	363
6020	7782-49-2	Selenium	mg/kg	0.543 U	0.543 U	0.593 U	0.563 U	0.556 U	0.544 U	0.539 U	0.541 U

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Sample Name				SL-508-SA5C-SB-4.0-5.0	SL-508-SA5C-SB-6.5-7.5	SL-509-SA5C-SB-0.0-0.5	SL-509-SA5C-SB-4.0-5.0	SL-809-SA5C-SB-4.0-5.0	SL-509-SA5C-SB-9.0-10.0	SL-510-SA5C-SB-0.0-0.5	SL-512A-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	FD	N	N	N
Sample Date				06/11/2012	06/11/2012	04/20/2012	06/11/2012	06/11/2012	06/11/2012	04/19/2012	04/23/2012
SDG				12F071	12F071	12D191	12F071	12F071	12F071	12D175	12D198
Start Depth				4	6.5	0	4	4	9	0	0
End Depth				5	7.5	0.5	5	5	10	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	20200	13600	14100	20100	21000	12900	19600	15400
6020	7439-89-6	Iron	mg/kg	25600	20800	18500	23400	23800	21500	26900	21400
6020	7439-92-1	Lead	mg/kg	8.52	6.04	57.2	23.0 J FD	8.27 J FD	7.53	20.2	10
6020	7439-93-2	Lithium	mg/kg	23.2	23.5	12.4	19.8	20.4	25.8	35.6	13.4
6020	7439-95-4	Magnesium	mg/kg	5420	4430	4280	4680	5070	4520	6160	4130
6020	7439-96-5	Manganese	mg/kg	430	233	331	214	204	232	309	302
6020	7439-98-7	Molybdenum	mg/kg	0.368 J Z	0.56	0.606	0.509 J Z	0.358 J Z	0.254 J Z	0.648	0.521 J Z
6020	7440-02-0	Nickel	mg/kg	15.6	15.1	12.5	14.4	13.2	12.3	17	10.2
6020	9/7/7440	Potassium	mg/kg	2330	2390	4230	2500	2280	2450	3590	2770
6020	7440-22-4	Silver	mg/kg	0.0627 J Z	0.517 U	0.533 U	0.0620 J Z	0.0608 J Z	0.518 U	0.146 J Z	0.788
6020	7440-23-5	Sodium	mg/kg	359	168	107	339	386	162	110 J Z	119
6020	7440-24-6	Strontium	mg/kg	32.9	21.6	21.8	29.9	35.7	17.7	34.5	30.1
6020	7440-28-0	Thallium	mg/kg	0.262 J Z	0.227 J Z	0.260 J Z	0.263 J Z	0.265 J Z	0.270 J Z	0.310 J Z	0.218 J Z
6020	7440-31-5	Tin	mg/kg	10.7 U	10.3 U	10.7 U	10.4 U	11.0 U	10.4 U	11.7 U	11.2 U
6020	7440-32-6	Titanium	mg/kg	810	883	967	904	880	940	1010	911
6020	7440-36-0	Antimony	mg/kg	0.223 J Q, Z	0.185 J Q, Z	0.176 J Q, Z	0.239 J Q, Z	0.190 J Q, Z	0.194 J Q, Z	0.360 J Q, Z	0.197 J Z
6020	7440-38-2	Arsenic	mg/kg	5.58	5.29	3.16	5.59	5.96	6.64	7.42	4.96
6020	7440-39-3	Barium	mg/kg	134	76.5	118	137	132	66.1	138	131
6020	7440-41-7	Beryllium	mg/kg	0.865	0.58	0.492 J Z	0.82	0.898	0.637	0.799	0.609
6020	7440-42-8	Boron	mg/kg	3.40 J Z	5.17 U	2.78 J Z	3.66 J Z	3.35 J Z	5.18 U	2.92 J Z	2.84 J Z
6020	7440-43-9	Cadmium	mg/kg	0.315 J Z	0.240 J Z	0.626	0.374 J Z	0.297 J Z	0.188 J Z	0.61	0.375 J Z
6020	7440-47-3	Chromium	mg/kg	24.6	25.5	21.3	26.5	24.4	19.8	25.8	17.9
6020	7440-48-4	Cobalt	mg/kg	9.26	6.09	7.38	6.65	6.62	5.71	9.25	6.6
6020	7440-50-8	Copper	mg/kg	11.4	10.3	12.8	10.3	9.79	10.8	57	10.5
6020	7440-62-2	Vanadium	mg/kg	47.4	39.3	36.9	43.2	45.3	36.8	46.7	37.7
6020	7440-66-6	Zinc	mg/kg	49.8	48.3	81.1	49.7	46	50.9	237	77.6
6020	7440-67-7	Zirconium	mg/kg	3.53 J Z	5.17 U	5.33 UJ Q	2.91 J Z	3.28 J Z	5.18 U	5.84 UJ Q	5.58 U
6020	7440-70-2	Calcium	mg/kg	4750 J Q, E	4900 J Q, E	2820	9190 J FD, Q, E	20600 J FD, Q, E	3090 J Q, E	4010	4800
6020	7723-14-0	Phosphorus	mg/kg	180 J Q	308 J Q	336	153 J Q	115 J Q	305 J Q	504	562
6020	7782-49-2	Selenium	mg/kg	0.535 U	0.517 U	0.533 U	0.520 U	0.548 U	0.518 U	0.584 U	0.558 U

U - Compound not detected above the reporting limit  
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Sample Name				SL-512-SA5C-SB-0.0-0.5	SL-812-SA5C-SB-0.0-0.5	SL-512-SA5C-SB-4.0-5.0	SL-512-SA5C-SB-6.0-7.0	SL-513-SA5C-SB-0.0-0.5	SL-513-SA5C-SB-4.0-5.0	SL-513-SA5C-SB-9.0-10.0	SL-514-SA5C-SB-0.0-0.5
Sample Type				N	FD	N	N	N	N	N	N
Sample Date				05/10/2012	05/10/2012	05/10/2012	05/10/2012	04/19/2012	05/10/2012	05/14/2012	04/17/2012
SDG				12E082	12E082	12E082	12E082	12D175	12E082	12E098	12D155
Start Depth				0	0	4	6	0	4	9	0
End Depth				0.5	0.5	5	7	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	13500	14400	21500	10400	16200	21400	16500	11000 J Q
6020	7439-89-6	Iron	mg/kg	18200	20500	25900	16400	20100	25200	24000	14400
6020	7439-92-1	Lead	mg/kg	12.2 J Q	13.8 J Q	7.05 J Q	5.24 J Q	25.4	9.52 J Q	7.12	13.7
6020	7439-93-2	Lithium	mg/kg	13.1	15.2	30.5	14.3	15.7	23.7	22.8	9.05
6020	7439-95-4	Magnesium	mg/kg	3480	4070	5740	3710	4300	5130	4960	2770
6020	7439-96-5	Manganese	mg/kg	258 J E	294 J E	270 J E	230 J E	336	269 J E	279 J E	286 J E
6020	7439-98-7	Molybdenum	mg/kg	0.522 J Z	0.524	0.123 J Z	0.181 J Z	0.599	0.387 J Z	0.271 J Z	0.667
6020	7440-02-0	Nickel	mg/kg	11.2 J E	13.1 J E	16.6 J E	8.46 J E	13	14.2 J E	15.4	10.3 J FD
6020	9/7/7440	Potassium	mg/kg	2530	2680	1580	1770	3550	2070	3030	2670
6020	7440-22-4	Silver	mg/kg	0.619	0.761	0.474 J Z	1.21	0.0990 J Z	0.0598 J Z	0.557 U	0.0660 J Z
6020	7440-23-5	Sodium	mg/kg	82.0 J Z	85.2 J Z	285	100 J Z	86.2 J Z	505	462	65.7 J Z
6020	7440-24-6	Strontium	mg/kg	25.5	35.2	70.8	106	27.8	50.1	41.7	22.7
6020	7440-28-0	Thallium	mg/kg	0.216 J Z	0.233 J Z	0.226 J Z	0.169 J Z	0.270 J Z	0.274 J Z	0.283 J Z	0.227 J Z
6020	7440-31-5	Tin	mg/kg	10.7 U	10.5 U	11.2 U	11.4 U	11.2 U	10.9 U	11.1 U	11.6 U
6020	7440-32-6	Titanium	mg/kg	718	700	744	554	799	817	911	652
6020	7440-36-0	Antimony	mg/kg	0.220 J Q, Z	0.237 J Q, Z	0.201 J Q, Z	0.135 J Q, Z	0.253 J Q, Z	0.200 J Q, Z	0.202 J Z	0.229 J Q, Z
6020	7440-38-2	Arsenic	mg/kg	3.79	4.56	5.37	2.29	4.3	5.38	5.42	3.35
6020	7440-39-3	Barium	mg/kg	105 J Q	122 J Q	173 J Q	73.5 J Q	122	172 J Q	76.1	100 J Q, E
6020	7440-41-7	Beryllium	mg/kg	0.588	0.647	1.01	0.561 J Z	0.619	0.995	0.755	0.487 J Z
6020	7440-42-8	Boron	mg/kg	3.39 J Z	3.57 J Z	2.93 J Z	5.72 U	3.18 J Z	5.45 U	5.57 U	5.81 U
6020	7440-43-9	Cadmium	mg/kg	0.487 J Z	0.508 J Z	0.300 J Z	0.584	0.333 J Z	0.238 J Z	0.303 J Z	0.306 J Z
6020	7440-47-3	Chromium	mg/kg	17.6	21.4	25.2	15.5	20.9	24.5	22.3	15.4 J FD
6020	7440-48-4	Cobalt	mg/kg	6.07 J E	7.52 J E	6.90 J E	4.28 J E	7.17	7.68 J E	7.42	5.76
6020	7440-50-8	Copper	mg/kg	11.9 J Q	10.7 J Q	9.54 J Q	6.74 J Q	12	9.25 J Q	9.78	9.87
6020	7440-62-2	Vanadium	mg/kg	33.9	38.6	47.8	23	39.4	47.1	39.8	30.3
6020	7440-66-6	Zinc	mg/kg	69.8	92.7	44.9	34.9	61.2	47.4	53.8	42.4
6020	7440-67-7	Zirconium	mg/kg	5.34 UJ Q	5.24 UJ Q	3.46 J Q, Z	5.72 UJ Q	5.59 UJ Q	5.45 UJ Q	3.46 J Z	5.81 UJ Q
6020	7440-70-2	Calcium	mg/kg	4450 J Q	7360 J Q	33500 J Q	89000 J Q	3510	6420 J Q	9000	2210
6020	7723-14-0	Phosphorus	mg/kg	217	257	111	282	349	108	220	196
6020	7782-49-2	Selenium	mg/kg	0.534 UJ FD	0.250 J FD, Z	0.559 U	0.572 U	0.559 U	0.545 U	0.557 U	0.581 U

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Sample Name				SL-814-SA5C-SB-0.0-0.5	SL-514-SA5C-SB-4.0-5.0	SL-514-SA5C-SB-9.0-10.0	SL-515-SA5C-SB-0.0-0.5	SL-515-SA5C-SB-4.0-5.0	SL-515-SA5C-SB-9.0-10.0	SL-516-SA5C-SB-0.0-0.5	SL-516-SA5C-SB-4.0-5.0
Sample Type				FD	N	N	N	N	N	N	N
Sample Date				04/17/2012	05/14/2012	05/14/2012	04/19/2012	06/25/2012	06/25/2012	04/19/2012	04/19/2012
SDG				12D155	12E098	12E098	12D175	12F182	12F182	12D175	12D175
Start Depth				0	4	9	0	4	9	0	4
End Depth				0.5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	9630 J Q	11800	8620	14300	18900	12700	11900	20500
6020	7439-89-6	Iron	mg/kg	14300	16900	15300	17200	28100	21000	16700	23700
6020	7439-92-1	Lead	mg/kg	14.1	4.96	3.97	15	13.9	4.93	51.6	9.42
6020	7439-93-2	Lithium	mg/kg	8.83	15.8	15.3	10.9	25	22.9	14.2	29.1
6020	7439-95-4	Magnesium	mg/kg	2480	3050	2830	3300	4620	4110	3420	5060
6020	7439-96-5	Manganese	mg/kg	276 J E	284 J E	196 J E	401	971 J E	191 J E	253	292
6020	7439-98-7	Molybdenum	mg/kg	0.849	0.303 J Z	0.240 J Z	0.655	0.628	0.203 J Z	0.999	0.309 J Z
6020	7440-02-0	Nickel	mg/kg	17.3 J FD	8.98	8.28	11.6	19.4	11.5	17.3	15.9
6020	9/7/7440	Potassium	mg/kg	2500	1650	1490	3190	1750	2690	2680	1730
6020	7440-22-4	Silver	mg/kg	0.0648 J Z	0.533 U	0.513 U	0.0564 J Z	0.562 U	0.0542 J Z	0.864	0.119 J Z
6020	7440-23-5	Sodium	mg/kg	66.7 J Z	204	115	72.9 J Z	696	290	78.5 J Z	139
6020	7440-24-6	Strontium	mg/kg	22	24	20.7	27.5	64.4	28.9	18.1	27.8
6020	7440-28-0	Thallium	mg/kg	0.226 J Z	0.169 J Z	0.168 J Z	0.265 J Z	0.266 J Z	0.262 J Z	0.205 J Z	0.258 J Z
6020	7440-31-5	Tin	mg/kg	11.3 U	10.7 U	10.3 U	11.0 U	11.2 U	10.8 U	11.4 U	11.4 U
6020	7440-32-6	Titanium	mg/kg	630	626	595	724	675	844	759	962
6020	7440-36-0	Antimony	mg/kg	0.273 J Q, Z	0.200 J Z	0.190 J Z	0.213 J Q, Z	0.297 J Q, Z	0.159 J Q, Z	0.564 J Q, Z	0.149 J Q, Z
6020	7440-38-2	Arsenic	mg/kg	3.32	5.79	5.06	3.68	9.5	5.51	3.48	5.45
6020	7440-39-3	Barium	mg/kg	95.0 J Q, E	96.4	58	116	180	76.4	90.7	138
6020	7440-41-7	Beryllium	mg/kg	0.504 J Z	0.624	0.432 J Z	0.6	1.21	0.632	0.458 J Z	0.804
6020	7440-42-8	Boron	mg/kg	5.66 U	5.33 U	5.13 U	3.00 J Z	3.16 J Z	5.38 U	5.68 U	5.72 U
6020	7440-43-9	Cadmium	mg/kg	0.290 J Z	0.157 J Z	0.155 J Z	0.350 J Z	0.315 J Z	0.203 J Z	1.01	0.247 J Z
6020	7440-47-3	Chromium	mg/kg	28.7 J FD	15.7	13.3	18.6	22	17.5	24.6	24.1
6020	7440-48-4	Cobalt	mg/kg	5.77	4.97	3.57	7.71	17.1	5.19	6.07	6.93
6020	7440-50-8	Copper	mg/kg	9.64	6.6	6.3	11.3	11.5	8.63	28.1	9.3
6020	7440-62-2	Vanadium	mg/kg	29.7	30.3	24.9	36	57.9	35.7	29.5	45.3
6020	7440-66-6	Zinc	mg/kg	40.4	32	35	43	46.3	50.2	287	60.2
6020	7440-67-7	Zirconium	mg/kg	5.66 UJ Q	5.33 U	5.13 U	5.50 UJ Q	3.52 J Q, Z	5.38 UJ Q	5.68 UJ Q	5.72 UJ Q
6020	7440-70-2	Calcium	mg/kg	2130	4150	3680	3050	28300	3550	2520	3390
6020	7723-14-0	Phosphorus	mg/kg	189	93.7	175	180	133	240	314	139
6020	7782-49-2	Selenium	mg/kg	0.566 U	0.533 U	0.513 U	0.550 U	0.562 U	0.538 U	0.568 U	0.572 U

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

Sample Name				SL-517-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-4.0-5.0	SL-518-SA5C-SB-9.0-10.0	SL-520-SA5C-SB-0.0-0.5	SL-520-SA5C-SB-6.5-7.5	SL-521-SA5C-SB-0.0-0.5	SL-521-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/19/2012	04/19/2012	06/11/2012	06/11/2012	04/23/2012	06/11/2012	06/11/2012	06/11/2012
SDG				12D175	12D175	12F071	12F071	12D198	12F071	12F071	12F071
Start Depth				0	0	4	9	0	6.5	0	4
End Depth				0.5	0.5	5	10	0.5	7.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	15300	14900	18700	17900	11800	11500	16300	20900
6020	7439-89-6	Iron	mg/kg	21600	27200	23700	29700	16800	18700	19200	21400
6020	7439-92-1	Lead	mg/kg	22.1	10.3	7.08	9.77	10.6	4.34	7	6.97
6020	7439-93-2	Lithium	mg/kg	15	12.5	22.9	39.2	10.6	27.1	13.1	26.1
6020	7439-95-4	Magnesium	mg/kg	4240	4070	5040	7190	3200	3690	3470	5340
6020	7439-96-5	Manganese	mg/kg	273	421	234	356	276	226	350	288
6020	7439-98-7	Molybdenum	mg/kg	0.712	0.932	0.327 J Z	0.442 J Z	0.977	0.230 J Z	0.588	0.275 J Z
6020	7440-02-0	Nickel	mg/kg	13.4	18.5	15	22.2	20.2	9.23	11.6	13.4
6020	9/7/7440	Potassium	mg/kg	3270	3960	1970	2190	2210	2170	2370	1930
6020	7440-22-4	Silver	mg/kg	0.0789 J Z	0.511 U	0.0598 J Z	0.196 J Z	0.0578 J Z	0.515 U	0.548 U	0.549 U
6020	7440-23-5	Sodium	mg/kg	96.6 J Z	105	708	439	118	237	106 J Z	143
6020	7440-24-6	Strontium	mg/kg	23.6	22.8	72.1	35.7	26.6	23.9	27.2	151
6020	7440-28-0	Thallium	mg/kg	0.226 J Z	0.277 J Z	0.243 J Z	0.339 J Z	0.199 J Z	0.197 J Z	0.249 J Z	0.225 J Z
6020	7440-31-5	Tin	mg/kg	10.7 U	6.57 J Z	11.0 U	10.8 U	10.8 U	10.3 U	11.0 U	11.0 U
6020	7440-32-6	Titanium	mg/kg	794	777	786	1060	747	963	742	870
6020	7440-36-0	Antimony	mg/kg	0.416 J Q, Z	0.356 J Q, Z	0.173 J Q, Z	0.239 J Q, Z	0.169 J Z	0.115 J Q, Z	0.177 J Q, Z	0.206 J Q, Z
6020	7440-38-2	Arsenic	mg/kg	5.14	4.92	4.66	9.11	3.3	4.37	3.89	5.48
6020	7440-39-3	Barium	mg/kg	99.6	114	203	123	105	71.6	124	145
6020	7440-41-7	Beryllium	mg/kg	0.574	0.622	0.875	1.13	0.478 J Z	0.559	0.668	0.885
6020	7440-42-8	Boron	mg/kg	3.32 J Z	3.39 J Z	3.64 J Z	5.39 U	3.01 J Z	5.15 U	5.48 U	2.81 J Z
6020	7440-43-9	Cadmium	mg/kg	0.618	0.389 J Z	0.355 J Z	0.334 J Z	0.273 J Z	0.205 J Z	0.270 J Z	0.219 J Z
6020	7440-47-3	Chromium	mg/kg	21.9	23.4	25.4	29.6	40.1	13.3	19.9	21
6020	7440-48-4	Cobalt	mg/kg	6.35	9.14	6.83	8.47	6.08	4.3	7.06	8.21
6020	7440-50-8	Copper	mg/kg	65.5	25.5	10.3	17.7	12.6	6.89	9.89	8.12
6020	7440-62-2	Vanadium	mg/kg	40	39.9	46.7	42.7	36.4	30.3	39.5	43
6020	7440-66-6	Zinc	mg/kg	395	46.3	47.5	71	48.4	43.7	39.9	42.3
6020	7440-67-7	Zirconium	mg/kg	5.37 UJ Q	5.11 UJ Q	3.66 J Z	3.28 J Z	5.39 U	5.15 U	5.48 U	3.00 J Z
6020	7440-70-2	Calcium	mg/kg	3130	2720	60900 J Q, E	11600 J Q, E	2910	5130 J Q, E	2810 J Q, E	41800 J Q, E
6020	7723-14-0	Phosphorus	mg/kg	414	200	121 J Q	444 J Q	241	249 J Q	169 J Q	106 J Q
6020	7782-49-2	Selenium	mg/kg	0.537 U	0.511 U	0.551 U	0.539 U	0.539 U	0.515 U	0.548 U	0.549 U

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

Sample Name				SL-521-SA5C-SB-9.0-10.0	SL-522-SA5C-SB-0.0-0.5	SL-522-SA5C-SB-4.0-5.0	SL-822-SA5C-SB-4.0-5.0	SL-522-SA5C-SB-9.0-10.0	SL-523-SA5C-SB-0.0-0.5	SL-523-SA5C-SB-4.0-5.0	SL-523-SA5C-SB-9.0-10.0
Sample Type				N	N	N	FD	N	N	N	N
Sample Date				06/11/2012	04/25/2012	07/09/2012	07/09/2012	07/09/2012	04/25/2012	07/09/2012	07/09/2012
SDG				12F071	12D231	12G030	12G030	12G030	12D231	12G030	12G030
Start Depth				9	0	4	4	9	0	4	9
End Depth				10	0.5	5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	16100	13300	15800	17800	9130	8530	16300	12000
6020	7439-89-6	Iron	mg/kg	22600	19200	22200	23600	17300	13000	20500	17800
6020	7439-92-1	Lead	mg/kg	6.03	8.68	6.3	6.5	3.39	4.88	7.39	4.9
6020	7439-93-2	Lithium	mg/kg	22.2	12.8	21.1	25.9	20.9	8.59	21	17.5
6020	7439-95-4	Magnesium	mg/kg	4890	3620	4580	5050	3900	2580	4180	3690
6020	7439-96-5	Manganese	mg/kg	346	463	255	332	264	201	403	244
6020	7439-98-7	Molybdenum	mg/kg	0.321 J Z	0.754	0.512 J Z	0.447 J Z	0.393 J Z	0.426 J Z	0.350 J Z	0.71
6020	7440-02-0	Nickel	mg/kg	16.6	12.5	13.4	14.9	9.44	7.29	12.5	10.1
6020	9/7/7440	Potassium	mg/kg	2760	3310	1900	1930	1840	1830	1520	1950
6020	7440-22-4	Silver	mg/kg	0.556 U	0.543 U	0.0616 J Z	0.0620 J Z	0.526 U	0.512 U	0.0584 J Z	0.547 U
6020	7440-23-5	Sodium	mg/kg	206	74.5 J Z	139	154	92.3 J Z	84.8 J Z	119	125
6020	7440-24-6	Strontium	mg/kg	42	23.9	29.6	30.6	15.1	30	33.4	34.1
6020	7440-28-0	Thallium	mg/kg	0.245 J Z	0.305 J Z	0.260 J Z	0.277 J Z	0.189 J Z	0.150 J Z	0.227 J Z	0.212 J Z
6020	7440-31-5	Tin	mg/kg	11.1 U	10.9 U	10.7 U	10.6 U	10.5 U	10.2 U	10.3 U	10.9 U
6020	7440-32-6	Titanium	mg/kg	909	895	843	965	811	563	697	832
6020	7440-36-0	Antimony	mg/kg	0.149 J Q, Z	0.213 J Q, Z	0.200 J Z	0.167 J Z	0.117 J Z	0.221 J Q, Z	0.171 J Z	0.132 J Z
6020	7440-38-2	Arsenic	mg/kg	4.66	4.21	4.72	5.53	4.22	2.56	3.58	4.22
6020	7440-39-3	Barium	mg/kg	93.5	136	136	141	63.3	80.5	141	77.3
6020	7440-41-7	Beryllium	mg/kg	0.699	0.645	0.749	0.791	0.404 J Z	0.358 J Z	0.701	0.58
6020	7440-42-8	Boron	mg/kg	5.56 U	3.60 J Z	5.36 U	5.31 U	5.26 U	3.26 J Z	5.5	5.47 U
6020	7440-43-9	Cadmium	mg/kg	0.339 J Z	0.396 J Z	0.246 J Z	0.267 J Z	0.165 J Z	0.192 J Z	0.226 J Z	0.192 J Z
6020	7440-47-3	Chromium	mg/kg	21	18.9	21.3	22	13.6	14.8	20.1	16.8
6020	7440-48-4	Cobalt	mg/kg	6.56	7.44	5.72 J A	6.50 J A	4.64 J A	3.98	7.51 J A	5.22 J A
6020	7440-50-8	Copper	mg/kg	10	11.8	9.69	9.76	6.41	7.06	6.84	7.36
6020	7440-62-2	Vanadium	mg/kg	37.3	37.5	38.9	41.4	26.6	31.1	34.6	30.9
6020	7440-66-6	Zinc	mg/kg	47.8	53.8	51.9	55.1	47.1	33.6	40.5	39.8
6020	7440-67-7	Zirconium	mg/kg	3.32 J Z	5.43 U	5.36 U	5.31 U	5.26 U	5.12 U	5.15 U	5.47 U
6020	7440-70-2	Calcium	mg/kg	11700 J Q, E	2380	2750	2920	2450	2350	8460	10300
6020	7723-14-0	Phosphorus	mg/kg	258 J Q	222	155	179	283	256	128	177
6020	7782-49-2	Selenium	mg/kg	0.556 U	0.543 U	0.536 U	0.531 U	0.526 U	0.512 U	0.515 U	0.547 U

U - Compound not detected above the reporting limit

J - Result is an estimated value

R - Result is rejected

Sample Name				SL-524-SA5C-SB-0.0-0.5	SL-524-SA5C-SB-4.0-5.0	SL-525-SA5C-SB-0.0-0.5	SL-525-SA5C-SB-4.0-5.0	SL-525-SA5C-SB-9.0-10.0	SL-526-SA5C-SB-0.0-0.5	SL-526-SA5C-SB-4.0-5.0	SL-526-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/24/2012	06/19/2012	04/24/2012	06/19/2012	06/19/2012	04/25/2012	06/19/2012	06/19/2012
SDG				12D208	12F132	12D208	12F132	12F132	12D231	12F132	12F132
Start Depth				0	4	0	4	9	0	4	9
End Depth				0.5	5	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	12300	12500	14900	17500	15300	13300	19400	16600
6020	7439-89-6	Iron	mg/kg	15300	17700	18000	22000	20900	17600	21500	20600
6020	7439-92-1	Lead	mg/kg	6.69	4.39	8.23	7.25	7.76	7.47	6.71	4.48
6020	7439-93-2	Lithium	mg/kg	10.1	17.8	12.2	17.5	16.9	11.4	19.5	18.9
6020	7439-95-4	Magnesium	mg/kg	2780	3530	3220	3890	3730	3350	4270	3770
6020	7439-96-5	Manganese	mg/kg	247	204	258	328	185	288	281	121
6020	7439-98-7	Molybdenum	mg/kg	0.505 J Z	0.251 J Z	0.539	0.517 J Z	0.896	0.594	0.513 J Z	0.283 J Z
6020	7440-02-0	Nickel	mg/kg	8.37	8.39	9.13	9.63	9.89	9.8	10.8	9.33
6020	9/7/7440	Potassium	mg/kg	2220	1960	2120	2260	2610	2340	2420	2530
6020	7440-22-4	Silver	mg/kg	0.534 U	0.523 U	0.519 U	0.528 U	0.540 U	0.533 U	0.532 U	0.109 J Z
6020	7440-23-5	Sodium	mg/kg	125	291	112	331	361	91.2 J Z	385	463
6020	7440-24-6	Strontium	mg/kg	23.6	24.5	24	33	30.4	23.5	31	40.1
6020	7440-28-0	Thallium	mg/kg	0.201 J Z	0.221 J Z	0.237 J Z	0.253 J Z	0.238 J Z	0.245 J Z	0.255 J Z	0.229 J Z
6020	7440-31-5	Tin	mg/kg	10.7 U	10.5 U	10.4 U	10.6 U	10.8 U	10.7 U	10.6 U	10.8 U
6020	7440-32-6	Titanium	mg/kg	727	881	854	874	851	798	887	802
6020	7440-36-0	Antimony	mg/kg	0.154 J Z	0.151 J Z	0.172 J Z	0.311 J Z	0.189 J Z	0.260 J Q, Z	0.237 J Z	0.169 J Z
6020	7440-38-2	Arsenic	mg/kg	3.04	4.02	3.6	7.4	4.41	3.89	5.8	3.67
6020	7440-39-3	Barium	mg/kg	93	80.1	103	100	70.3	106	87.7	83.2
6020	7440-41-7	Beryllium	mg/kg	0.487 J Z	0.545	0.594	0.854	0.638	0.634	0.836	0.667
6020	7440-42-8	Boron	mg/kg	5.34 U	5.23 U	3.26 J Z	5.28 U	5.40 U	4.82 J Z	4.02 J Z	5.41 U
6020	7440-43-9	Cadmium	mg/kg	0.274 J Z	0.0954 J Z	0.316 J Z	0.160 J Z	0.197 J Z	0.223 J Z	0.125 J Z	0.152 J Z
6020	7440-47-3	Chromium	mg/kg	14.6	14.1	16.7	17.1	20.1	17	18.8	20.3
6020	7440-48-4	Cobalt	mg/kg	5.43	4.71	6.02	8.44	4.51	6.83	8	3.21
6020	7440-50-8	Copper	mg/kg	7.21	5.7	7.72	8.2	9.04	8.84	7.85	7.94
6020	7440-62-2	Vanadium	mg/kg	30	29.1	33.6	37.6	35.1	34.2	37.2	32.6
6020	7440-66-6	Zinc	mg/kg	41.6	38.4	47.8	42	49.8	43.7	43.3	41
6020	7440-67-7	Zirconium	mg/kg	5.34 U	5.23 U	5.19 U	5.28 U	5.40 U	5.33 U	5.32 U	5.41 U
6020	7440-70-2	Calcium	mg/kg	2180	2450	2800	2540	3600	2770	2920	10600
6020	7723-14-0	Phosphorus	mg/kg	198	145	154	139	241	180	132	178
6020	7782-49-2	Selenium	mg/kg	0.534 U	0.523 U	0.519 U	0.528 U	0.540 U	0.533 U	0.532 U	0.541 U

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

Sample Name				SL-527-SA5C-SB-0.0-0.5	SL-527-SA5C-SB-4.0-5.0	SL-528-SA5C-SB-0.0-0.5	SL-528-SA5C-SB-4.0-5.0	SL-828-SA5C-SB-4.0-5.0	SL-529-SA5C-SB-0.0-0.5	SL-529-SA5C-SB-4.0-5.0	SL-530-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	FD	N	N	N
Sample Date				04/25/2012	06/19/2012	04/25/2012	06/19/2012	06/19/2012	04/25/2012	05/09/2012	04/25/2012
SDG				12D231	12F132	12D231	12F132	12F132	12D231	12E082	12D231
Start Depth				0	4	0	4	4	0	4	0
End Depth				0.5	5	0.5	5	5	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	14500	18000	11400	14400	16200	12400	15200	14900
6020	7439-89-6	Iron	mg/kg	18600	21200	15700	18000	20600	17600	20300	18700
6020	7439-92-1	Lead	mg/kg	6.47	6.6	6.42	6.01	6.82	8.2	5.69 J Q	7.16
6020	7439-93-2	Lithium	mg/kg	11.3	17.4	9.66	12.8	14.7	11.8	19.5	17.1
6020	7439-95-4	Magnesium	mg/kg	3020	4470	2810	3610	3980	3590	3770	4030
6020	7439-96-5	Manganese	mg/kg	263	248	326	221	264	333	202 J E	242
6020	7439-98-7	Molybdenum	mg/kg	0.608	0.652	0.698	1.21	1.18	0.701	0.284 J Z	0.400 J Z
6020	7440-02-0	Nickel	mg/kg	8.6	10.3	9.3	9.13	10.9	9.78	10.5 J E	9.99
6020	9/7/7440	Potassium	mg/kg	1590	2540	2270	2360	2470	2780	1800	2780
6020	7440-22-4	Silver	mg/kg	0.0563 J Z	0.547 U	0.516 U	0.520 U	0.524 U	0.525 U	0.547 U	0.521 U
6020	7440-23-5	Sodium	mg/kg	139	585	139	408	466	116	440	106
6020	7440-24-6	Strontium	mg/kg	20	36.8	19	25.7	29.1	20.9	32.9	22.1
6020	7440-28-0	Thallium	mg/kg	0.251 J Z	0.280 J Z	0.233 J Z	0.250 J Z	0.265 J Z	0.257 J Z	0.237 J Z	0.230 J Z
6020	7440-31-5	Tin	mg/kg	10.3 U	10.9 U	10.3 U	10.4 U	10.5 U	10.5 U	10.9 U	10.4 U
6020	7440-32-6	Titanium	mg/kg	873	868	789	815	861	913	841	958
6020	7440-36-0	Antimony	mg/kg	0.185 J Q, Z	0.237 J Z	0.204 J Q, Z	0.251 J Z	0.265 J Z	0.220 J Q, Z	0.178 J Q, Z	0.182 J Q, Z
6020	7440-38-2	Arsenic	mg/kg	4.11	4.64	3.29	4.1	5.08	3.68	5.16	3.74
6020	7440-39-3	Barium	mg/kg	96.9	116	97.5	100 J Q	108	112	101 J Q	122
6020	7440-41-7	Beryllium	mg/kg	0.66	0.771	0.547	0.618	0.77	0.559	0.911	0.565
6020	7440-42-8	Boron	mg/kg	5.16 U	5.47 U	3.16 J Z	5.20 U	5.24 U	3.46 J Z	5.47 U	2.82 J Z
6020	7440-43-9	Cadmium	mg/kg	0.113 J Z	0.130 J Z	0.214 J Z	0.154 J Z	0.150 J Z	0.260 J Z	0.166 J Z	0.200 J Z
6020	7440-47-3	Chromium	mg/kg	17.8	20.5	15.6	18.8	20	15.8	17.8	17.1
6020	7440-48-4	Cobalt	mg/kg	6.9	6.71	6	5.13	7.26	6.4	13.0 J E	5.45
6020	7440-50-8	Copper	mg/kg	5.7	8	8.31	7.26	7.65	9.77	6.60 J Q	8.41
6020	7440-62-2	Vanadium	mg/kg	36.5	37.4	30.5	33.2	38.5	35.2	37.4	36
6020	7440-66-6	Zinc	mg/kg	32.7	44.2	35.7	37.8	41.3	67.3	41.7	49.3
6020	7440-67-7	Zirconium	mg/kg	5.16 U	5.47 U	5.16 U	5.20 UJ Q	5.24 U	5.25 U	5.47 UJ Q	5.21 U
6020	7440-70-2	Calcium	mg/kg	1740	4250	1950	2330	2530	2420	3580 J Q	2910
6020	7723-14-0	Phosphorus	mg/kg	143	174	170	142	162	247	110	296
6020	7782-49-2	Selenium	mg/kg	0.516 U	0.547 U	0.516 U	0.520 U	0.524 U	0.525 U	0.547 U	0.521 U

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

Sample Name				SL-530-SA5C-SB-4.0-5.0	SL-530-SA5C-SB-9.0-10.0	SL-531-SA5C-SB-0.0-0.5	SL-531-SA5C-SB-4.0-5.0	SL-531-SA5C-SB-9.0-10.0	SL-532-SA5C-SB-0.0-0.5	SL-533-SA5C-SB-0.0-0.5	SL-533-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				07/09/2012	07/09/2012	04/25/2012	07/09/2012	07/09/2012	04/23/2012	04/23/2012	07/09/2012
SDG				12G030	12G030	12D231	12G030	12G030	12D198	12D198	12G030
Start Depth				4	9	0	4	9	0	0	4
End Depth				5	10	0.5	5	10	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	18500	8850	11800	17500	13900	11800	11300	18800
6020	7439-89-6	Iron	mg/kg	22400	18200	17800	23900	20000	17700	17200	21900
6020	7439-92-1	Lead	mg/kg	6.56	3.35	8.21	8.16	5.1	58.1	6.19	7.73
6020	7439-93-2	Lithium	mg/kg	16.5	27.3	12	24.2	22	12.2	14.7	29.2
6020	7439-95-4	Magnesium	mg/kg	4380	4480	3230	4640	4030	4520	3560	4400
6020	7439-96-5	Manganese	mg/kg	231	226	378	427	310	203	228	432
6020	7439-98-7	Molybdenum	mg/kg	0.643	0.227 J Z	0.733	0.196 J Z	0.655	1.1	0.479 J Z	0.311 J Z
6020	7440-02-0	Nickel	mg/kg	11	9.66	10.6	17.4	14.1	18.4	9.21	15.9
6020	9/7/7440	Potassium	mg/kg	1470	1560	3210	1270	2320	2410	2260	1180
6020	7440-22-4	Silver	mg/kg	0.534 U	0.517 U	0.532 U	0.0804 J Z	0.0569 J Z	0.117 J Z	0.518 U	0.0599 J Z
6020	7440-23-5	Sodium	mg/kg	111	103	63.9 J Z	264	167	179	102 J Z	242
6020	7440-24-6	Strontium	mg/kg	29	19.4	20.9	34.3	25.7	24.5	35.1	57.9
6020	7440-28-0	Thallium	mg/kg	0.247 J Z	0.191 J Z	0.271 J Z	0.239 J Z	0.252 J Z	0.160 J Z	0.183 J Z	0.204 J Z
6020	7440-31-5	Tin	mg/kg	10.7 U	10.3 U	10.6 U	10.8 U	10.8 U	10.7 U	10.4 U	10.8 U
6020	7440-32-6	Titanium	mg/kg	957	887	805	697	871	798	720	654
6020	7440-36-0	Antimony	mg/kg	0.223 J Z	0.107 J Z	0.216 J Q, Z	0.181 J Z	0.149 J Z	1.38	0.222 J Z	0.189 J Z
6020	7440-38-2	Arsenic	mg/kg	5.2	3.63	4.16	5.15	4.84	2.75	3.76	5.66
6020	7440-39-3	Barium	mg/kg	130	83.8	110	119	84.4	84.1	99	164
6020	7440-41-7	Beryllium	mg/kg	0.809	0.367 J Z	0.588	0.896	0.587	0.378 J Z	0.461 J Z	0.895
6020	7440-42-8	Boron	mg/kg	5.34 U	5.17 U	3.19 J Z	5.42 U	5.41 U	3.19 J Z	3.98 J Z	5.41 U
6020	7440-43-9	Cadmium	mg/kg	0.147 J Z	0.126 J Z	0.328 J Z	0.231 J Z	0.251 J Z	2.94	0.216 J Z	0.217 J Z
6020	7440-47-3	Chromium	mg/kg	21.1	13.1	16.8	22.3	18.8	25.7	17.7	21.1
6020	7440-48-4	Cobalt	mg/kg	6.17 J A	4.52 J A	6.38	9.23 J A	5.47 J A	6.03	4.92	13.6 J A
6020	7440-50-8	Copper	mg/kg	7.88	5.58	9.76	8.74	8.96	19.8	8.14	7.21
6020	7440-62-2	Vanadium	mg/kg	41.9	25.6	34.5	39.9	33.8	31.9	37.2	40.4
6020	7440-66-6	Zinc	mg/kg	43.4	51.1	47.2	43.2	49.3	1100	41.9	40.7
6020	7440-67-7	Zirconium	mg/kg	5.34 U	5.17 U	5.32 U	5.42 U	5.41 U	5.34 U	5.18 U	5.41 U
6020	7440-70-2	Calcium	mg/kg	2630	2530	2190	5860	3830	4800	3280	24000
6020	7723-14-0	Phosphorus	mg/kg	101	302	256	67.5	207	476	317	79.7
6020	7782-49-2	Selenium	mg/kg	0.534 U	0.517 U	0.532 U	0.542 U	0.541 U	0.534 U	0.518 U	0.541 U

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

Sample Name				SL-533-SA5C-SB-9.0-10.0	SL-536-SA5C-SB-0.0-0.5	SL-536-SA5C-SB-4.0-5.0	SL-536-SA5C-SB-9.0-10.0	SL-537-SA5C-SB-0.0-0.5	SL-537-SA5C-SB-4.0-5.0	SL-537-SA5C-SB-9.0-10.0	SL-539-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				07/09/2012	05/08/2012	06/01/2012	06/01/2012	06/07/2012	06/07/2012	06/07/2012	06/05/2012
SDG				12G030	12E055	12F020	12F020	12F051	12F051	12F051	12F037
Start Depth				9	0	4	9	0	4	9	0
End Depth				10	0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	13900	9930 J Q	13600	13900	22700	22800	14300	15700
6020	7439-89-6	Iron	mg/kg	22300	15800	21200	21000	27800	26800	20200	20300
6020	7439-92-1	Lead	mg/kg	7.47	24.5	7	5.93	10.3	8.19	5.62	6.46
6020	7439-93-2	Lithium	mg/kg	22.4	12.7	16.8	20.4	17.2	22.8	18.2	13.9
6020	7439-95-4	Magnesium	mg/kg	4460	3090 J Q	3940 J Q	4180 J Q	4730	5950	3440	3490
6020	7439-96-5	Manganese	mg/kg	1050	195	143	242	409	293	172	201 J E
6020	7439-98-7	Molybdenum	mg/kg	0.702	0.368 J Q, Z	0.301 J Z	0.448 J Z	0.573	0.321 J Z	0.279 J Z	0.339 J Z
6020	7440-02-0	Nickel	mg/kg	33.8	8.15 J Q	8.75	12.6	15.4	15.6	9.58	8.8
6020	9/7/7440	Potassium	mg/kg	2060	1960	1730	2360	2080	2090	1460	1490
6020	7440-22-4	Silver	mg/kg	0.548 U	0.528 U	0.517 U	0.0972 J Z	0.0805 J Z	0.0797 J Z	0.556 U	0.0689 J Z
6020	7440-23-5	Sodium	mg/kg	171	99.0 J Z	430	436	378	610	405	136
6020	7440-24-6	Strontium	mg/kg	40.5	20.8 J Q	30.7	31.2	47	54.7	30.2	26.1
6020	7440-28-0	Thallium	mg/kg	0.258 J Z	0.221 J Z	0.249 J Z	0.277 J Z	0.341 J Z	0.294 J Z	0.226 J Z	0.241 J Z
6020	7440-31-5	Tin	mg/kg	11.0 U	10.6 U	10.3 U	10.9 U	10.9 U	11.1 U	11.1 U	11.1 U
6020	7440-32-6	Titanium	mg/kg	866	695	784	748	596	867	709	759
6020	7440-36-0	Antimony	mg/kg	0.209 J Z	0.202 J Q, Z	0.233 J Z	0.243 J Z	0.264 J Q, Z	0.220 J Q, Z	0.207 J Q, Z	0.205 J Z
6020	7440-38-2	Arsenic	mg/kg	5.4	3.55 J Q	5.27	5.34	5.42	5.18	4.12	4.19
6020	7440-39-3	Barium	mg/kg	137	89.8 J Q	94	71.6	190	179	62.2	117
6020	7440-41-7	Beryllium	mg/kg	0.663	0.487 J Q, Z	0.699	0.715	1.16	0.987	0.731	0.717
6020	7440-42-8	Boron	mg/kg	5.48 U	5.28 U	5.17 U	5.44 U	5.46 U	5.55 U	5.56 U	5.53 U
6020	7440-43-9	Cadmium	mg/kg	0.626	0.467 J Z	0.144 J Z	0.231 J Z	0.301 J Z	0.254 J Z	0.153 J Z	0.129 J Z
6020	7440-47-3	Chromium	mg/kg	19.7	14.6 J Q	19.4	18.5	27.9	26.7	18.9	17.7
6020	7440-48-4	Cobalt	mg/kg	11.0 J A	5.04 J Q	3.99	6.02	10.1	8.02	5.39	6.84
6020	7440-50-8	Copper	mg/kg	10.1	8.21 J Q	9.67	9.33	11.8	12.4	8.7	6.29
6020	7440-62-2	Vanadium	mg/kg	38	28.2 J Q	37.8	34.2	54.5	49.6	31.2	34.7
6020	7440-66-6	Zinc	mg/kg	52.3	75.7	40.2	47.5	52.5	55.5	40.7	34.5
6020	7440-67-7	Zirconium	mg/kg	5.48 U	5.28 UJ Q	5.17 UJ Q	5.44 UJ Q	5.46 U	3.64 J Z	5.56 U	5.53 U
6020	7440-70-2	Calcium	mg/kg	10300	3000 J Q	3170	5450	4350	6760	3270	2750
6020	7723-14-0	Phosphorus	mg/kg	230	164 J Q	160	197	118	134	135	70.7
6020	7782-49-2	Selenium	mg/kg	0.548 U	0.528 UJ Q	0.517 U	0.544 U	0.253 J Z	0.555 U	0.556 U	0.553 U

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R - Result is rejected

Sample Name				SL-539-SA5C-SB-6.0-7.0	SL-542-SA5C-SB-0.0-0.5	SL-542-SA5C-SB-1.0-2.0	SL-543-SA5C-SB-0.0-0.5	SL-543-SA5C-SB-3.5-4.5	SL-544-SA5C-SB-0.0-0.5	SL-544-SA5C-SB-5.0-6.0	SL-545-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/05/2012	05/09/2012	05/09/2012	06/05/2012	06/05/2012	05/30/2012	05/30/2012	06/04/2012
SDG				12F037	12E067	12E067	12F037	12F037	12E244	12E244	12F037
Start Depth				6	0	1	0	3.5	0	5	0
End Depth				7	0.5	2	0.5	4.5	0.5	6	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	13400	12700	21600	9080	10200	8530	17600	13600
6020	7439-89-6	Iron	mg/kg	25600	21800	30900	17000	21100	16300	37400	20500
6020	7439-92-1	Lead	mg/kg	7.74	396 J Q	21.8 J Q	4.59	3.25	3.79	13.7	6.58
6020	7439-93-2	Lithium	mg/kg	31.4	20	29.9	21.6	25	15.8	40.2	19.8
6020	7439-95-4	Magnesium	mg/kg	6130	4420	6790	4070	4750	3720 J Q	8210 J Q	4410
6020	7439-96-5	Manganese	mg/kg	292 J E	233 J E	193 J E	227 J E	271 J E	145	767	265 J E
6020	7439-98-7	Molybdenum	mg/kg	0.509 J Z	2.11	0.310 J Z	0.251 J Z	0.382 J Z	0.429 J Z	0.493 J Z	0.683
6020	7440-02-0	Nickel	mg/kg	19.5	30.5 J E	15.3 J E	12.1	12.2	7.34	28.6	11.4
6020	9/7/7440	Potassium	mg/kg	2110	2230	1880	1750	2390	1350	2890	2220
6020	7440-22-4	Silver	mg/kg	0.283 J Z	0.140 J Z	0.0693 J Z	0.527 U	0.523 U	0.521 U	0.0882 J Z	0.558 U
6020	7440-23-5	Sodium	mg/kg	368	146	639	121	140	242	570	198
6020	7440-24-6	Strontium	mg/kg	37.3	30.2	57.3	27	31	25.5	53.3	27.3
6020	7440-28-0	Thallium	mg/kg	0.288 J Z	0.226 J Z	0.350 J Z	0.275 J Z	0.264 J Z	0.243 J Z	0.503	0.254 J Z
6020	7440-31-5	Tin	mg/kg	10.7 U	10.0 U	10.9 U	10.5 U	10.5 U	10.4 U	11.2 U	11.2 U
6020	7440-32-6	Titanium	mg/kg	792	824	908	775	955	776	698	878
6020	7440-36-0	Antimony	mg/kg	0.267 J Z	14.5 J Q	0.314 J Q, Z	0.375 J Z	0.253 J Z	0.235 J Z	0.287 J Z	0.236 J Z
6020	7440-38-2	Arsenic	mg/kg	6.12	5.08	7.95	3.47	4.78	4.5	9.03	4.58
6020	7440-39-3	Barium	mg/kg	114	456 J Q	194 J Q	77.2	75.5	68.2	144	106
6020	7440-41-7	Beryllium	mg/kg	0.857	0.544	1.18	0.549	0.385 J Z	0.321 J Z	1.31	0.607
6020	7440-42-8	Boron	mg/kg	5.36 U	5.01 U	5.46 U	5.27 U	5.23 U	5.21 U	5.61 U	5.58 U
6020	7440-43-9	Cadmium	mg/kg	0.236 J Z	1.72	0.267 J Z	0.163 J Z	0.174 J Z	0.104 J Z	0.464 J Z	0.198 J Z
6020	7440-47-3	Chromium	mg/kg	26.1	51.7	29.1	15.7	16.6	15.9	29.6	18.7
6020	7440-48-4	Cobalt	mg/kg	8.15	6.42 J E	7.67 J E	7.75	5.53	3.58	11.1	6.57
6020	7440-50-8	Copper	mg/kg	17.7	17.0 J Q	17.8 J Q	8.87	6.83	7.94	26.6	8.81
6020	7440-62-2	Vanadium	mg/kg	39.7	35.9	49.3	26.8	34.8	27.7	47.4	35
6020	7440-66-6	Zinc	mg/kg	64.9	377	74.4	52.2	55.5	42.3	98	49.2
6020	7440-67-7	Zirconium	mg/kg	5.36 U	5.01 UJ Q	5.46 UJ Q	5.27 U	5.23 U	5.21 UJ Q	5.61 UJ Q	5.58 U
6020	7440-70-2	Calcium	mg/kg	5530	3610 J Q	13800 J Q	3700	4260	3180	6940	3400
6020	7723-14-0	Phosphorus	mg/kg	521	404	324	441	827	327	732	247
6020	7782-49-2	Selenium	mg/kg	0.536 U	0.501 U	0.546 U	0.527 U	0.523 U	0.521 U	0.561 U	0.558 U

U - Compound not detected above the reporting limit  
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Sample Name				SL-545-SA5C-SB-4.0-5.0	SL-545-SA5C-SB-9.0-10.0	SL-546-SA5C-SB-0.0-0.5	SL-546-SA5C-SB-4.0-5.0	SL-846-SA5C-SB-4.0-5.0	SL-546-SA5C-SB-9.0-10.0	SL-547-SA5C-SB-0.0-0.5	SL-547-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	FD	N	N	N
Sample Date				06/04/2012	06/04/2012	06/06/2012	06/06/2012	06/06/2012	06/06/2012	05/08/2012	06/07/2012
SDG				12F037	12F037	12F044	12F044	12F044	12F044	12E055	12F051
Start Depth				4	9	0	4	4	9	0	4
End Depth				5	10	0.5	5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	19500	13700	14100	18300	22600	15200	14700 J Q	13600
6020	7439-89-6	Iron	mg/kg	23800	18100	18600	23300	26800	19900	20500	21000
6020	7439-92-1	Lead	mg/kg	7.97	6.01	7.48	6.99	9.74	5.42	14.7	8.84
6020	7439-93-2	Lithium	mg/kg	19.2	14	13.5	16.5	21.4	16.8	14.6	13.2
6020	7439-95-4	Magnesium	mg/kg	4750	3200	3610	4470	5290	3360	4170 J Q	3320
6020	7439-96-5	Manganese	mg/kg	269 J E	164 J E	182 J E	198 J FD, E	1140 J FD, E	161 J E	275	265
6020	7439-98-7	Molybdenum	mg/kg	0.728	0.371 J Z	0.597	0.402 J Z	0.579	0.393 J Z	0.684 J Q	0.432 J Z
6020	7440-02-0	Nickel	mg/kg	12.4	7.79	11.2	11.3 J FD	24.4 J FD	9.61	12.3 J Q	9.69
6020	9/7/7440	Potassium	mg/kg	1740	1270	2660	1720	1880	1360	3150	1670
6020	7440-22-4	Silver	mg/kg	0.0559 J Z	0.561 U	0.558 U	0.0624 J Z	0.0715 J Z	0.574 U	0.0796 J Z	0.553 U
6020	7440-23-5	Sodium	mg/kg	161	112	146	156	175	194	90.2 J Z	315
6020	7440-24-6	Strontium	mg/kg	30.5	21.2	27.9	33.4	41	27.5	27.1 J Q	28.1
6020	7440-28-0	Thallium	mg/kg	0.273 J Z	0.192 J Z	0.295 J Z	0.263 J Z	0.404 J Z	0.229 J Z	0.263 J Z	0.201 J Z
6020	7440-31-5	Tin	mg/kg	10.9 U	11.2 U	11.2 U	11.5 U	11.1 U	11.5 U	11.0 U	11.1 U
6020	7440-32-6	Titanium	mg/kg	886	697	863	768	732	764	739	582
6020	7440-36-0	Antimony	mg/kg	0.259 J Z	0.240 J Z	0.279 J Z	0.216 J Z	0.282 J Z	0.231 J Z	0.370 J Q, Z	0.213 J Q, Z
6020	7440-38-2	Arsenic	mg/kg	5.22	5.21	4.19	4.92	6.22	4.76	3.98 J Q	6.22
6020	7440-39-3	Barium	mg/kg	148	61	115	151	224	80.2	126 J Q	99.6
6020	7440-41-7	Beryllium	mg/kg	0.839	0.527 J Z	0.66	0.809	0.943	0.691	0.613 J Q	0.814
6020	7440-42-8	Boron	mg/kg	5.43 U	5.61 U	5.58 U	5.77 U	5.55 U	5.74 U	3.14 J Z	5.53 U
6020	7440-43-9	Cadmium	mg/kg	0.159 J Z	0.0997 J Z	0.298 J Z	0.141 J FD, Z	0.566 J FD	0.120 J Z	0.362 J Z	0.208 J Z
6020	7440-47-3	Chromium	mg/kg	22.8	15.5	18.6	21	25.7	18.2	20.0 J Q	16.7
6020	7440-48-4	Cobalt	mg/kg	7.66	7.5	4.97	5.40 J FD	16.6 J FD	5.4	6.61 J Q	6.89
6020	7440-50-8	Copper	mg/kg	8.2	8.09	11.1	7.13	10.5	8.11	12.5 J Q	8.58
6020	7440-62-2	Vanadium	mg/kg	43.1	30.7	36.8	41.3	48.8	34.6	39.3 J Q	43.2
6020	7440-66-6	Zinc	mg/kg	45.9	33.9	55.6	43	50.9	37.4	68.3	35.6
6020	7440-67-7	Zirconium	mg/kg	5.43 U	5.61 U	5.58 U	5.77 U	5.55 U	5.74 U	5.50 UJ Q	5.53 U
6020	7440-70-2	Calcium	mg/kg	2930	2340	2700	3280	3940	3050	4450 J Q	3280
6020	7723-14-0	Phosphorus	mg/kg	124	114	180	95.6	120	108	274 J Q	173
6020	7782-49-2	Selenium	mg/kg	0.543 U	0.561 U	0.558 U	0.577 U	0.555 U	0.574 U	0.550 UJ Q	0.553 U

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Sample Name				SL-547-SA5C-SB-9.0-10.0	SL-548-SA5C-SB-0.0-0.5	SL-548-SA5C-SB-4.0-5.0	SL-548-SA5C-SB-9.0-10.0	SL-550-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-4.0-5.0	SL-552-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/07/2012	05/08/2012	06/07/2012	06/07/2012	05/30/2012	06/05/2012	06/05/2012	06/05/2012
SDG				12F051	12E055	12F051	12F051	12E244	12F037	12F037	12F037
Start Depth				9	0	4	9	0	0	4	0
End Depth				10	0.5	5	10	0.5	0.5	4	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	12700	13600 J Q	17800	19800	11100	13900	11500	9990
6020	7439-89-6	Iron	mg/kg	19800	20400	22700	25300	21700	19900	19900	18900
6020	7439-92-1	Lead	mg/kg	6.09	27.2	6.76	8.56	68.3	6.6	5.11	8.44
6020	7439-93-2	Lithium	mg/kg	18.5	15.7	19.3	23.7	26.8	14.7	20.6	20.8
6020	7439-95-4	Magnesium	mg/kg	4060	4070 J Q	4900	5060	5280 J Q	3510	4060	4500
6020	7439-96-5	Manganese	mg/kg	197	358	170	253	317	156 J E	248 J E	253 J E
6020	7439-98-7	Molybdenum	mg/kg	0.64	0.565 J Q	0.440 J Z	0.576	0.911	0.383 J Z	0.379 J Z	3.1
6020	7440-02-0	Nickel	mg/kg	11.3	12.4 J Q	11.8	16.2	14.5	8.52	13.1	12.3
6020	9/7/7440	Potassium	mg/kg	2000	3420	1930	2650	2480	1390	1860	2530
6020	7440-22-4	Silver	mg/kg	0.523 U	0.0837 J Z	0.0767 J Z	0.0970 J Z	0.534 U	0.574 U	0.530 U	0.518 U
6020	7440-23-5	Sodium	mg/kg	300	93.6 J Z	328	387	127	190	143	116
6020	7440-24-6	Strontium	mg/kg	37	21.9 J Q	41.4	38.8	24.5	32.3	27.5	27.3
6020	7440-28-0	Thallium	mg/kg	0.196 J Z	0.266 J Z	0.261 J Z	0.286 J Z	0.264 J Z	0.225 J Z	0.233 J Z	0.221 J Z
6020	7440-31-5	Tin	mg/kg	10.5 U	11.3 U	11.3 U	11.3 U	10.7 U	11.5 U	10.6 U	10.4 U
6020	7440-32-6	Titanium	mg/kg	727	777	832	868	931	699	802	836
6020	7440-36-0	Antimony	mg/kg	0.183 J Q, Z	1.64 J Q	0.260 J Q, Z	0.412 J Q, Z	4.23	0.213 J Z	0.211 J Z	0.293 J Z
6020	7440-38-2	Arsenic	mg/kg	3.7	4.20 J Q	4.65	5.65	5.49	4.27	3.93	4.03
6020	7440-39-3	Barium	mg/kg	70.6	111 J Q	71	127	87.3	114	98.9	87.1
6020	7440-41-7	Beryllium	mg/kg	0.513 J Z	0.592 J Q	0.772	0.867	0.530 J Z	0.683	0.572	0.444 J Z
6020	7440-42-8	Boron	mg/kg	5.23 U	5.64 U	5.65 U	5.63 U	5.34 U	5.74 U	5.30 U	5.18 U
6020	7440-43-9	Cadmium	mg/kg	0.201 J Z	0.515 J Z	0.228 J Z	0.243 J Z	0.210 J Z	0.159 J Z	0.220 J Z	0.368 J Z
6020	7440-47-3	Chromium	mg/kg	20	21.3 J Q	21.7	23.7	20.2	17.2	15.5	16.6
6020	7440-48-4	Cobalt	mg/kg	6.02	7.97 J Q	5.03	6.04	7.16	6.02	6.78	5.88
6020	7440-50-8	Copper	mg/kg	9.87	10.9 J Q	10.3	11.2	10.8	7.34	6.72	10.9
6020	7440-62-2	Vanadium	mg/kg	34.2	38.3 J Q	41.5	41.7	35.8	34.2	30.6	31.1
6020	7440-66-6	Zinc	mg/kg	51.5	91.4	49.3	57.2	67.6	35.8	46.4	92.6
6020	7440-67-7	Zirconium	mg/kg	5.23 U	5.64 UJ Q	5.65 U	5.63 U	5.34 UJ Q	5.74 U	5.30 U	5.18 U
6020	7440-70-2	Calcium	mg/kg	11900	3600 J Q	9630	5380	3900	4570	3200	5410
6020	7723-14-0	Phosphorus	mg/kg	313	287 J Q	192	175	437	97.9	224	521
6020	7782-49-2	Selenium	mg/kg	0.313 J Z	0.564 UJ Q	0.565 U	0.563 U	0.534 U	0.574 U	0.530 U	0.518 U

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

Sample Name				SL-554-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-2.5-3.5	SL-559-SA5C-SB-0.0-0.5	SL-559-SA5C-SB-2.0-3.0	SL-559-SA5C-SB-7.0-8.0	SL-560-SA5C-SB-0.0-0.5	SL-560-SA5C-SB-6.5-7.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/29/2012	05/29/2012	05/29/2012	06/07/2012	06/07/2012	06/07/2012	05/30/2012	05/30/2012
SDG				12E229	12E229	12E229	12F051	12F051	12F051	12E244	12E244
Start Depth				0	0	2.5	0	2	7	0	6.5
End Depth				0.5	0.5	3.5	0.5	3	8	0.5	7.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	12900	17500	21600	14200	15800	13000	14300	12000
6020	7439-89-6	Iron	mg/kg	22100	27100	32800	19200	20500	20600	19400	18900
6020	7439-92-1	Lead	mg/kg	13.9	9.62	11.8	7.13	6.9	5.2	8.13	4.72
6020	7439-93-2	Lithium	mg/kg	25	37.2	53.9	13.9	13.9	18.1	13.6	18.1
6020	7439-95-4	Magnesium	mg/kg	5360	7290	10500	3520	3470	4180	4100 J Q	3880 J Q
6020	7439-96-5	Manganese	mg/kg	269	226	433	229	205	173	269	188
6020	7439-98-7	Molybdenum	mg/kg	2.14	0.475 J Z	0.585	0.532 J Z	0.450 J Z	0.310 J Z	0.486 J Z	0.277 J Z
6020	7440-02-0	Nickel	mg/kg	13.1	20.1	30.5	9.7	8.92	9.15	12.1	10.4
6020	9/7/7440	Potassium	mg/kg	2580	1850	3570	2050	1640	1650	2030	1630
6020	7440-22-4	Silver	mg/kg	0.540 U	0.255 J Z	0.109 J Z	0.565 U	0.585 U	0.555 U	0.580 U	0.532 U
6020	7440-23-5	Sodium	mg/kg	80.0 J Z	377	366	106 J Z	122	244	104 J Z	236
6020	7440-24-6	Strontium	mg/kg	29.4	33.4	33.1	22.7	25.7	36.6	30.8	24
6020	7440-28-0	Thallium	mg/kg	0.259 J Z	0.302 J Z	0.334 J Z	0.236 J Z	0.233 J Z	0.228 J Z	0.232 J Z	0.216 J Z
6020	7440-31-5	Tin	mg/kg	10.8 U	10.7 U	10.8 U	11.3 U	11.7 U	11.1 U	11.6 U	10.6 U
6020	7440-32-6	Titanium	mg/kg	900	711	1290	800	775	871	515	812
6020	7440-36-0	Antimony	mg/kg	0.234 J Z	0.295 J Z	0.289 J Z	0.302 J Q, Z	0.229 J Q, Z	0.175 J Q, Z	0.64	0.192 J Z
6020	7440-38-2	Arsenic	mg/kg	6.16	8.38	9.28	4.14	4.62	4.25	3.77	4.72
6020	7440-39-3	Barium	mg/kg	123	99.1	133	113	115	80.6	143	68.5
6020	7440-41-7	Beryllium	mg/kg	0.532 J Z	0.954	1.04	0.661	0.708	0.585	0.694	0.514 J Z
6020	7440-42-8	Boron	mg/kg	5.40 U	5.34 U	5.41 U	5.65 U	5.85 U	5.55 U	5.80 U	5.32 U
6020	7440-43-9	Cadmium	mg/kg	0.229 J Z	0.158 J Z	0.352 J Z	0.723	0.183 J Z	0.129 J Z	0.265 J Z	0.109 J Z
6020	7440-47-3	Chromium	mg/kg	20.2	32.2	41.8	17.3	17.4	18.1	18.6	16
6020	7440-48-4	Cobalt	mg/kg	6.69	6.33	11.7	5.76	5.34	4.93	5.97	5.55
6020	7440-50-8	Copper	mg/kg	11.6	17.9	23.8	9.79	6.55	7.82	9.81	7.69
6020	7440-62-2	Vanadium	mg/kg	36	43.2	57.8	33.9	36.4	30.8	35.5	29.4
6020	7440-66-6	Zinc	mg/kg	61.8	67.5	91.5	140	42.9	53.7	50.1	43.6
6020	7440-67-7	Zirconium	mg/kg	2.88 J Z	5.34 U	3.44 J Z	5.65 U	5.85 U	5.55 U	5.80 UJ Q	5.32 UJ Q
6020	7440-70-2	Calcium	mg/kg	6340	5350	5700	2640	2820	3340	5220	2920
6020	7723-14-0	Phosphorus	mg/kg	745	454	693	160	143	211	135	301
6020	7782-49-2	Selenium	mg/kg	0.540 U	0.534 U	0.294 J Z	0.565 U	0.585 U	0.555 U	0.580 U	0.532 U

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

Sample Name				SL-561-SA5C-SB-0.0-0.5	SL-561-SA5C-SB-5.5-6.5	SL-570-SA5C-SB-0.0-0.5	SL-570-SA5C-SB-2.0-3.0	SL-571-SA5C-SB-0.0-0.5	SL-571-SA5C-SB-4.0-5.0	SL-571-SA5C-SB-9.0-10.0	SL-572-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/05/2012	06/05/2012	04/18/2012	04/18/2012	04/26/2012	06/07/2012	06/07/2012	06/19/2012
SDG				12F037	12F037	12D165	12D165	12D256	12F051	12F051	12F132
Start Depth				0	5.5	0	2	0	4	9	0
End Depth				0.5	6.5	0.5	3	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	22200	8660	10800	9980	24300	17100	12800	17600
6020	7439-89-6	Iron	mg/kg	26300	17100	18100	18400	25000	23100	21100	20600
6020	7439-92-1	Lead	mg/kg	8.75	4.11	9.12	4.11	11.3	15.5	6.44	5.83
6020	7439-93-2	Lithium	mg/kg	19.3	22.8	18.1	24.7	17.7	22.8	19.6	16.6
6020	7439-95-4	Magnesium	mg/kg	5450	3880	3490	4810	4010	4820	4680	3910
6020	7439-96-5	Manganese	mg/kg	278 J E	230 J E	468	249	159	216	153	119
6020	7439-98-7	Molybdenum	mg/kg	0.369 J Z	0.243 J Z	0.582	0.320 J Z	0.82	3.31	0.584	0.366 J Z
6020	7440-02-0	Nickel	mg/kg	15.3	11.7	11.4	13.5	11	14.5	10.1	7.56
6020	9/7/7440	Potassium	mg/kg	2320	1630	1770	1880	1700	2000	1830	1670
6020	7440-22-4	Silver	mg/kg	0.0666 J Z	0.507 U	0.523 U	0.541 U	0.0629 J Z	0.538 U	0.558 U	0.547 U
6020	7440-23-5	Sodium	mg/kg	315	280	63.4 J Z	73.1 J Z	294	510	499	265
6020	7440-24-6	Strontium	mg/kg	42.2	23	15	18.2	31	42.8	31.5	31.4
6020	7440-28-0	Thallium	mg/kg	0.307 J Z	0.228 J Z	0.206 J Z	0.213 J Z	0.291 J Z	0.253 J Z	0.273 J Z	0.246 J Z
6020	7440-31-5	Tin	mg/kg	11.1 U	10.1 U	10.5 U	10.8 U	11.1 U	10.8 U	11.2 U	10.9 U
6020	7440-32-6	Titanium	mg/kg	676	862	708	926	968	907	897	829
6020	7440-36-0	Antimony	mg/kg	0.239 J Z	0.222 J Z	0.192 J Z	0.179 J Z	0.224 J Q, Z	0.335 J Q, Z	0.244 J Q, Z	0.184 J Z
6020	7440-38-2	Arsenic	mg/kg	5.05	4.44	6.51	8.8	5.86	5.53	5.12	4.34
6020	7440-39-3	Barium	mg/kg	176	73.6	101	83.5	153	241	42.3	114
6020	7440-41-7	Beryllium	mg/kg	0.944	0.441 J Z	0.553	0.397 J Z	0.788	0.757	0.574	0.749
6020	7440-42-8	Boron	mg/kg	5.53 U	5.07 U	5.23 U	5.41 U	5.56 U	5.38 U	5.58 U	5.47 U
6020	7440-43-9	Cadmium	mg/kg	0.239 J Z	0.161 J Z	0.250 J Z	0.150 J Z	0.165 J Z	0.344 J Z	0.141 J Z	0.114 J Z
6020	7440-47-3	Chromium	mg/kg	25.5	15.8	15.1	17.5	23.3	27	18.9	17.4
6020	7440-48-4	Cobalt	mg/kg	8.02	4.81	9.6	5.58	4.32	5.73	5.09	3.82
6020	7440-50-8	Copper	mg/kg	9.79	8.77	6.92	6.93	6.56	11.1	9.29	5.79
6020	7440-62-2	Vanadium	mg/kg	49.2	28.8	35.4	32.7	46.7	39.2	35.5	34.8
6020	7440-66-6	Zinc	mg/kg	51.3	48.5	53.8	54.6	48.6	59	45.5	36.3
6020	7440-67-7	Zirconium	mg/kg	5.53 U	5.07 U	5.23 U	5.41 U	5.56 U	5.38 U	5.58 U	5.47 U
6020	7440-70-2	Calcium	mg/kg	4530	4570	2540	3040	2890	3440	2870	2510
6020	7723-14-0	Phosphorus	mg/kg	115	371	291	382	108	157	87.5	99.3
6020	7782-49-2	Selenium	mg/kg	0.553 U	0.507 U	0.523 U	0.541 U	0.556 U	0.538 U	0.558 U	0.547 U

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

Sample Name				SL-572-SA5C-SB-4.0-5.0	SL-872-SA5C-SB-4.0-5.0	SL-574-SA5C-SB-0.0-0.5	SL-574-SA5C-SB-4.0-5.0	SL-574-SA5C-SB-9.0-10.0	SL-575-SA5C-SB-0.0-0.5	SL-575-SA5C-SB-4.0-5.0	SL-577-SA5C-SB-0.0-0.5
Sample Type				N	FD	N	N	N	N	N	N
Sample Date				06/19/2012	06/19/2012	04/20/2012	06/11/2012	06/11/2012	04/19/2012	06/25/2012	04/17/2012
SDG				12F132	12F132	12D191	12F071	12F071	12D175	12F182	12D155
Start Depth				4	4	0	4	9	0	4	0
End Depth				5	5	0.5	5	10	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	10800	11900	18300	23700	19600	20300	16000	14300 J Q
6020	7439-89-6	Iron	mg/kg	15200	16200	22000	27500	24800	22800	20900	20000
6020	7439-92-1	Lead	mg/kg	3.91	3.91	11.9	8.66	7.96	27.9	6.84	18.3
6020	7439-93-2	Lithium	mg/kg	15.1	17.3	15	24.2	25.3	18.1	23.9	14.5
6020	7439-95-4	Magnesium	mg/kg	3440	3520	4830	6630	5490	4620	4320	4090
6020	7439-96-5	Manganese	mg/kg	168	132	382	295	192	482	373 J E	322 J E
6020	7439-98-7	Molybdenum	mg/kg	0.380 J Z	0.561	0.576	0.353 J Z	0.456 J Z	0.551 J Z	0.290 J Z	0.510 J Z
6020	7440-02-0	Nickel	mg/kg	9.92	10.1	14.9	17.7	14.1	15.6	12.9	12.9
6020	9/7/7440	Potassium	mg/kg	1550	1650	4080	3190	2700	3350	1720	3390
6020	7440-22-4	Silver	mg/kg	0.508 U	0.531 U	0.564 U	0.0558 J Z	0.0641 J Z	0.127 J Z	0.0571 J Z	0.517 J Z
6020	7440-23-5	Sodium	mg/kg	310	328	82.7 J Z	608	410	101 J Z	452	76.6 J Z
6020	7440-24-6	Strontium	mg/kg	27.9	32.8	32.2	48.8	40.1	35.1	53.7	31.7
6020	7440-28-0	Thallium	mg/kg	0.141 J Z	0.174 J Z	0.302 J Z	0.311 J Z	0.270 J Z	0.292 J Z	0.259 J Z	0.241 J Z
6020	7440-31-5	Tin	mg/kg	10.2 U	10.6 U	11.3 U	10.9 U	11.3 U	11.4 U	10.9 U	11.7 U
6020	7440-32-6	Titanium	mg/kg	590	656	814	851	903	793	761	707
6020	7440-36-0	Antimony	mg/kg	0.166 J Z	0.155 J Z	0.523 J Q, Z	0.234 J Q, Z	0.266 J Q, Z	0.250 J Q, Z	0.245 J Q, Z	0.246 J Q, Z
6020	7440-38-2	Arsenic	mg/kg	3.5	3.78	4.41	5.58	5.12	4.63	6.26	4.29
6020	7440-39-3	Barium	mg/kg	66.1	68.1	121	130	133	151	100	101 J Q, E
6020	7440-41-7	Beryllium	mg/kg	0.458 J Z	0.472 J Z	0.709	0.946	0.784	0.8	0.852	0.604
6020	7440-42-8	Boron	mg/kg	5.08 U	5.31 U	5.24 J Z	6.37	3.85 J Z	4.46 J Z	5.47 U	4.18 J Z
6020	7440-43-9	Cadmium	mg/kg	0.0863 J Z	0.0907 J Z	0.381 J Z	0.335 J Z	0.321 J Z	0.539 J Z	0.229 J Z	0.603
6020	7440-47-3	Chromium	mg/kg	16	17.6	22.7	29	25.8	24.9	19.9	20.3
6020	7440-48-4	Cobalt	mg/kg	4.21	4.21	8.13	7.59	6.18	9.69	8.8	7.14
6020	7440-50-8	Copper	mg/kg	5.83	6.29	13.1	12.3	12	12.4	8.97	12.4
6020	7440-62-2	Vanadium	mg/kg	24.6	26.5	44.9	53.4	47	46.6	44.4	39.6
6020	7440-66-6	Zinc	mg/kg	33	33.9	58.7	56.5	55.1	62.7	43.9	97.1
6020	7440-67-7	Zirconium	mg/kg	5.08 U	5.31 U	5.64 UJ Q	3.86 J Z	3.55 J Z	5.72 UJ Q	5.47 UJ Q	5.86 UJ Q
6020	7440-70-2	Calcium	mg/kg	3580 J Q	5930	4660	6270 J Q, E	4870 J Q, E	4750	26200	8760
6020	7723-14-0	Phosphorus	mg/kg	239	261	265	187 J Q	260 J Q	236	115	331
6020	7782-49-2	Selenium	mg/kg	0.508 U	0.531 U	0.564 U	0.544 U	0.564 U	0.572 U	0.547 U	0.586 U

U - Compound not detected above the reporting limit  
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R - Result is rejected

Sample Name				SL-578-SA5C-SB-0.0-0.5	SL-578-SA5C-SB-4.0-5.0	SL-579-SA5C-SB-0.0-0.5	SL-579-SA5C-SB-4.0-5.0	SL-580-SA5C-SB-0.0-0.5	SL-580-SA5C-SB-4.0-5.0	SL-581-SA5C-SB-0.0-0.5	SL-581-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/17/2012	06/27/2012	04/18/2012	04/18/2012	04/18/2012	04/18/2012	04/17/2012	06/26/2012
SDG				12D155	12F215	12D165	12D165	12D165	12D165	12D155	12F197
Start Depth				0	4	0	4	0	4	0	4
End Depth				0.5	5	0.5	5	0.5	5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	12900 J Q	13200	13800	15500	13500	13300	10800 J Q	17000
6020	7439-89-6	Iron	mg/kg	15500	20000	19800	19100	17900	19200	14700	19700
6020	7439-92-1	Lead	mg/kg	10.6	4.75	9.51	8.01	9.71	4.82	11.4	5.56
6020	7439-93-2	Lithium	mg/kg	9.88	24.5	17.2	14.8	13.9	23.7	9.43	23.1
6020	7439-95-4	Magnesium	mg/kg	3010	4180 J Q	3580	3300	3430	4020	2790	4350 J Q
6020	7439-96-5	Manganese	mg/kg	322 J E	177	304	354	304	517	351 J E	195
6020	7439-98-7	Molybdenum	mg/kg	0.639	0.157 J Z	0.603	0.464 J Z	0.559 J Z	0.105 J Z	0.678	0.138 J Z
6020	7440-02-0	Nickel	mg/kg	10.6	14.3	12.5	11.6	11.2	19	10.4	11.9
6020	9/7/7440	Potassium	mg/kg	2860	1950	3240	1920	2880	1050	2410	1270
6020	7440-22-4	Silver	mg/kg	0.561 U	0.0752 J Z	0.549 U	0.539 U	0.567 U	0.0631 J Z	0.0571 J Z	0.0705 J Z
6020	7440-23-5	Sodium	mg/kg	112 U	353	66.8 J Z	74.1 J Z	81.3 J Z	412	73.9 J Z	510
6020	7440-24-6	Strontium	mg/kg	23.4	49.7	23	26.7	24.7	136	26.5	137
6020	7440-28-0	Thallium	mg/kg	0.222 J Z	0.242 J Z	0.248 J Z	0.261 J Z	0.245 J Z	0.183 J Z	0.228 J Z	0.185 J Z
6020	7440-31-5	Tin	mg/kg	11.2 U	10.8 U	11.0 U	10.8 U	11.3 U	11.2 U	11.1 U	11.1 U
6020	7440-32-6	Titanium	mg/kg	571	846	822	694	814	651	657	670
6020	7440-36-0	Antimony	mg/kg	0.210 J Q, Z	0.205 J Q, Z	0.261 J Z	0.169 J Z	0.308 J Z	0.126 J Z	0.223 J Q, Z	0.181 J Q, Z
6020	7440-38-2	Arsenic	mg/kg	3.46	5.22	5.87	4.24	4.76	3.2	3.21	3.74
6020	7440-39-3	Barium	mg/kg	101 J Q, E	76.6	126	126	121	153	99.5 J Q, E	136
6020	7440-41-7	Beryllium	mg/kg	0.552 J Z	0.75	0.694	0.782	0.586	0.728	0.530 J Z	0.761
6020	7440-42-8	Boron	mg/kg	5.61 U	5.42 U	5.49 U	5.39 U	5.67 U	3.04 J Z	3.03 J Z	3.74 J Z
6020	7440-43-9	Cadmium	mg/kg	0.294 J Z	0.295 J Z	0.296 J Z	0.231 J Z	0.293 J Z	0.337 J Z	0.355 J Z	0.301 J Z
6020	7440-47-3	Chromium	mg/kg	16	21.4 J Q	19.9	20.1	17.3	17.6	16	20.3 J Q
6020	7440-48-4	Cobalt	mg/kg	6.43	4.34	6.46	7.54	6.14	6.44	6.44	5.32
6020	7440-50-8	Copper	mg/kg	9.81	8.42	9.95	8.06	10.3	5.99	10.8	6.19
6020	7440-62-2	Vanadium	mg/kg	31.8	34.1 J Q	38.7	38.2	35.6	31	30.8	33.9 J Q
6020	7440-66-6	Zinc	mg/kg	39.4	44.1	53.6	39.6	46	38.5	62	41.4
6020	7440-67-7	Zirconium	mg/kg	5.61 UJ Q	5.42 U	5.49 U	5.39 U	5.67 U	5.61 U	5.57 UJ Q	5.56 U
6020	7440-70-2	Calcium	mg/kg	2800	38800	3340	3010	3290	105000	2420	97400
6020	7723-14-0	Phosphorus	mg/kg	185	162	270	122	248	135	184	83.3
6020	7782-49-2	Selenium	mg/kg	0.561 U	0.542 U	0.549 U	0.539 U	0.567 U	0.561 U	0.557 U	0.556 U

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

Sample Name				SL-881-SA5C-SB-4.0-5.0	SL-583-SA5C-SB-0.0-0.5	SL-583-SA5C-SB-4.0-5.0	SL-584-SA5C-SB-0.0-0.5	SL-584-SA5C-SB-4.0-5.0	SL-585-SA5C-SB-0.0-0.5	SL-585-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-0.0-0.5
Sample Type				FD	N	N	N	N	N	N	N
Sample Date				06/26/2012	07/24/2012	07/24/2012	05/03/2012	06/21/2012	05/02/2012	06/21/2012	05/07/2012
SDG				12F197	12G199	12G199	12E034	12F162	12E018	12F162	12E049
Start Depth				4	0	4	0	4	0	4	0
End Depth				5	0.5	5	0.5	5	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	15900	14500	23300	10800 J Q	20700	14900 J Q	9010	8380 J Q
6020	7439-89-6	Iron	mg/kg	19200	22600	26300	15300	29600	19500 J Q	15900	13200
6020	7439-92-1	Lead	mg/kg	5.06	6.82	8.81	8.55	12.8	8.81	4.56	15.5
6020	7439-93-2	Lithium	mg/kg	21.2	13.5	20.2	10.6	26.2	13	19.6	13.4
6020	7439-95-4	Magnesium	mg/kg	4230 J Q	5510	6070	2960 J Q	6580	4410	3930	3210 J Q
6020	7439-96-5	Manganese	mg/kg	204	268	341	275	226 J E	323	195 J E	213
6020	7439-98-7	Molybdenum	mg/kg	0.135 J Z	0.735	0.896	0.387 J Q, Z	0.352 J Z	0.493 J Z	0.245 J Z	0.422 J Q, Z
6020	7440-02-0	Nickel	mg/kg	11.8	11.4	16.8	9.75 J Q	17.6	11.3	10.3	9.88 J Q
6020	9/7/7440	Potassium	mg/kg	1150	2280	4090	2660	2350	3640	1810	2730
6020	7440-22-4	Silver	mg/kg	0.0722 J Z	0.546 U	0.596 U	0.565 U	0.0636 J Z	0.530 U	0.520 U	0.0557 J Z
6020	7440-23-5	Sodium	mg/kg	498	121	160	66.0 J Z	476	93.0 J Z	243	65.4 J Z
6020	7440-24-6	Strontium	mg/kg	147	21.8	35	27.0 J Q	40.9	29.2	20.1	15.3 J Q
6020	7440-28-0	Thallium	mg/kg	0.180 J Z	0.254 J Z	0.314 J Z	0.257 J Z	0.315 J Z	0.231 J Z	0.232 J Z	0.199 J Z
6020	7440-31-5	Tin	mg/kg	11.0 U	10.9 U	11.9 U	11.3 U	11.4 U	10.6 U	10.4 U	10.9 U
6020	7440-32-6	Titanium	mg/kg	639	905	784	519	704	929	816	632
6020	7440-36-0	Antimony	mg/kg	0.183 J Q, Z	0.240 J Z	0.268 J Z	0.178 J Q, Z	0.230 J Q, Z	0.219 J Z	0.179 J Q, Z	2.76 J Q
6020	7440-38-2	Arsenic	mg/kg	3.42	3.37	4.62	4.11 J Q	8.05	3.23	5.01	2.90 J Q
6020	7440-39-3	Barium	mg/kg	131	86.4	133	94.4 J Q	126	114	65.9	69.3 J Q
6020	7440-41-7	Beryllium	mg/kg	0.75	0.533 J Z	0.829	0.496 J Q, Z	1.12	0.470 J Z	0.488 J Z	0.352 J Q, Z
6020	7440-42-8	Boron	mg/kg	3.57 J Z	5.46 U	4.94 J Z	5.65 U	5.69 U	3.28 J Z	5.20 U	5.45 U
6020	7440-43-9	Cadmium	mg/kg	0.293 J Z	0.248 J Z	0.398 J Z	0.284 J Z	0.283 J Z	0.313 J Z	0.147 J Z	0.618
6020	7440-47-3	Chromium	mg/kg	20.2 J Q	18.5	28.1	15.0 J Q	29.4	18	15.6	15.7 J Q
6020	7440-48-4	Cobalt	mg/kg	4.92	8.16	8.59	6.33 J Q	8.72	7.08	6.57	4.13 J Q
6020	7440-50-8	Copper	mg/kg	6.09	11.2	13.7	8.82 J Q	19.6	12.2	7.8	8.10 J Q
6020	7440-62-2	Vanadium	mg/kg	31.3 J Q	43.1	52.4	31.2 J Q	50.4	37.3	28.1	22.4 J Q
6020	7440-66-6	Zinc	mg/kg	42	44.4	59.4	40.2	65.1	53	46.3	215
6020	7440-67-7	Zirconium	mg/kg	5.51 U	5.46 U	5.96 U	5.65 UJ Q	5.69 UJ Q	5.30 U	5.20 UJ Q	5.45 UJ Q
6020	7440-70-2	Calcium	mg/kg	103000	3500	5570	5200 J Q	6000	4020	3210	3240 J Q
6020	7723-14-0	Phosphorus	mg/kg	80.1	375	321	154 J Q	282	335	290	310 J Q
6020	7782-49-2	Selenium	mg/kg	0.551 U	0.546 U	0.596 U	0.565 UJ Q	0.569 U	0.530 U	0.520 U	0.545 UJ Q

U - Compound not detected above the reporting limit  
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R - Result is rejected

Sample Name				SL-586-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-9.0-10.0	SL-587-SA5C-SB-0.0-0.5	SL-587-SA5C-SB-4.0-5.0	SL-887-SA5C-SB-4.0-5.0	SL-587-SA5C-SB-8.5-9.5	SL-589-SA5C-SB-0.0-0.5	SL-589-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	FD	N	N	N
Sample Date				07/11/2012	07/11/2012	05/02/2012	06/20/2012	06/20/2012	06/20/2012	05/07/2012	07/11/2012
SDG				12G064	12G064	12E018	12F146	12F146	12F146	12E049	12G064
Start Depth				4	9	0	4	4	8.5	0	4
End Depth				5	10	0.5	5	5	9.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	16300	21400	16000 J Q	13100	15200	12600	12000 J Q	19500
6020	7439-89-6	Iron	mg/kg	27100	25700	21300 J Q	19000	23400	18900	18400	26700
6020	7439-92-1	Lead	mg/kg	9.43	7.55	9.61	7.11	7.2	4.94	7.17	9.56
6020	7439-93-2	Lithium	mg/kg	30.1	25.4	17.2	17.2	20	20	18.1	18.4
6020	7439-95-4	Magnesium	mg/kg	5850	5380	4940	4350	5030	4540	4090 J Q	5580
6020	7439-96-5	Manganese	mg/kg	334	299	356	242 J FD	603 J FD	248	259	436
6020	7439-98-7	Molybdenum	mg/kg	0.711	0.483 J Z	0.594	0.517 J FD, Z	0.919 J FD	1.37	0.458 J Q, Z	0.447 J Z
6020	7440-02-0	Nickel	mg/kg	20.5	13.8	13	12.9	15.4	10.6	10.3 J Q	16.2
6020	9/7/7440	Potassium	mg/kg	3370	2350	3560	2890	3200	2170	3990	3560
6020	7440-22-4	Silver	mg/kg	0.0577 J Z	0.0658 J Z	0.543 U	0.566 U	0.549 U	0.540 U	0.531 U	0.540 U
6020	7440-23-5	Sodium	mg/kg	101 J Z	154	110	97.1 J Z	131	135	64.3 J Z	266
6020	7440-24-6	Strontium	mg/kg	25.7	40.1	29.2	22.4	25.4	20.6	18.0 J Q	34.8
6020	7440-28-0	Thallium	mg/kg	0.317 J Z	0.277 J Z	0.246 J Z	0.261 J Z	0.271 J Z	0.208 J Z	0.241 J Z	0.315 J Z
6020	7440-31-5	Tin	mg/kg	10.8 U	11.3 U	10.9 U	11.3 U	11.0 U	10.8 U	10.6 U	10.8 U
6020	7440-32-6	Titanium	mg/kg	777	915	958	745	824	839	863	712
6020	7440-36-0	Antimony	mg/kg	0.243 J Z	0.267 J Z	0.273 J Z	0.216 J Z	0.248 J Z	0.195 J Z	0.218 J Q, Z	0.202 J Z
6020	7440-38-2	Arsenic	mg/kg	6.99	6.2	3.94	4.1	5.89	4.16	3.46 J Q	4.75
6020	7440-39-3	Barium	mg/kg	112	146	113	93.1 J Q	131 J Q	80.2 J Q	108 J Q	148
6020	7440-41-7	Beryllium	mg/kg	0.82	0.785	0.539 J Z	0.608	0.672	0.536 J Z	0.456 J Q, Z	0.802
6020	7440-42-8	Boron	mg/kg	3.04 J Z	3.30 J Z	4.01 J Z	5.66 UJ FD	2.90 J FD, Z	5.40 U	5.31 U	3.03 J Z
6020	7440-43-9	Cadmium	mg/kg	0.255 J Z	0.234 J Z	0.317 J Z	0.224 J Z	0.266 J Z	0.164 J Z	0.252 J Z	0.402 J Z
6020	7440-47-3	Chromium	mg/kg	26.2	23.9	19.6	19.6	21.7	19.5	16.1 J Q	24.2
6020	7440-48-4	Cobalt	mg/kg	7.77	7.75	7.84	6.15	7.84	5.23	5.33 J Q	8.85
6020	7440-50-8	Copper	mg/kg	13.6	9.4	11.5	10.1	10.5	7.73	7.99 J Q	11.3
6020	7440-62-2	Vanadium	mg/kg	41	45.8	37.8	34.4	40.4	32.8	32.4 J Q	47.7
6020	7440-66-6	Zinc	mg/kg	67.3	54.8	94.4	50	62.3	49.2	59	60.3
6020	7440-67-7	Zirconium	mg/kg	5.41 U	3.93 J Z	5.43 U	5.66 UJ Q	5.49 UJ Q	5.40 UJ Q	5.31 UJ Q	5.40 U
6020	7440-70-2	Calcium	mg/kg	3400	7690	5090	2860	3310	3190	3630 J Q	5080
6020	7723-14-0	Phosphorus	mg/kg	338	184	402	230	312	269	429 J Q	312
6020	7782-49-2	Selenium	mg/kg	0.541 U	0.563 U	0.543 U	0.566 U	0.549 U	0.540 U	0.531 UJ Q	0.540 U

U - Compound not detected above the reporting limit  
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R - Result is rejected

Sample Name				SL-591-SA5C-SB-0.0-0.5	SL-591-SA5C-SB-4.0-5.0	SL-592-SA5C-SB-0.0-0.5	SL-592-SA5C-SB-5.0-6.0	SL-594-SA5C-SB-0.0-0.5	SL-594-SA5C-SB-5.0-6.0	SL-594-SA5C-SB-9.0-10.0	SL-599-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/02/2012	07/11/2012	05/07/2012	07/11/2012	06/21/2012	06/21/2012	06/21/2012	05/02/2012
SDG				12E018	12G064	12E049	12G064	12F162	12F162	12F162	12E018
Start Depth				0	4	0	5	0	5	9	0
End Depth				0.5	5	0.5	6	0.5	6	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	20800 J Q	18500	9340 J Q	14900	14300	17400	24000	16400 J Q
6020	7439-89-6	Iron	mg/kg	28000 J Q	24600	16600	21000	21200	23400	28300	21800 J Q
6020	7439-92-1	Lead	mg/kg	9.46	10	10.6	7.08	7.44	8.31	9.19	15.2
6020	7439-93-2	Lithium	mg/kg	30.1	18.8	18.6	19.6	18.1	24.4	20.3	20.2
6020	7439-95-4	Magnesium	mg/kg	6560	5620	3500 J Q	4800	6390	5280	6230	4940
6020	7439-96-5	Manganese	mg/kg	383	363	215	315	330 J E	312 J E	336 J E	315
6020	7439-98-7	Molybdenum	mg/kg	0.869	0.476 J Z	0.461 J Q, Z	1.93	0.843	0.728	0.531 J Z	0.536
6020	7440-02-0	Nickel	mg/kg	26.1	15.8	7.50 J Q	11.3	14.2	16.3	17	12.2
6020	9/7/7440	Potassium	mg/kg	3770	3590	2950	2690	4020	2910	3540	3990
6020	7440-22-4	Silver	mg/kg	0.0810 J Z	0.549 U	0.528 U	0.524 U	0.0691 J Z	0.0969 J Z	0.0746 J Z	0.536 U
6020	7440-23-5	Sodium	mg/kg	99.4 J Z	118	106 U	165	367	125	211	106 J Z
6020	7440-24-6	Strontium	mg/kg	30.2	31.2	11.2 J Q	26.9	46.1	23.1	40.5	32
6020	7440-28-0	Thallium	mg/kg	0.342 J Z	0.281 J Z	0.215 J Z	0.247 J Z	0.256 J Z	0.282 J Z	0.356 J Z	0.262 J Z
6020	7440-31-5	Tin	mg/kg	11.2 U	11.0 U	10.6 U	10.5 U	11.3 U	11.1 U	12.1 U	10.7 U
6020	7440-32-6	Titanium	mg/kg	1160	697	881	945	871	956	780	974
6020	7440-36-0	Antimony	mg/kg	0.280 J Z	0.197 J Z	1.08 J Q	0.205 J Z	0.230 J Q, Z	0.237 J Q, Z	0.262 J Q, Z	0.298 J Z
6020	7440-38-2	Arsenic	mg/kg	7.11	4.41	2.96 J Q	3.65	4.84	6.13	5.08	3.96
6020	7440-39-3	Barium	mg/kg	140	135	74.6 J Q	122	141	106	158	107
6020	7440-41-7	Beryllium	mg/kg	0.781	0.706	0.377 J Q, Z	0.556	0.589	0.786	0.909	0.545
6020	7440-42-8	Boron	mg/kg	5.61 U	3.23 J Z	5.28 U	5.24 U	14.7	3.71 J Z	3.38 J Z	4.38 J Z
6020	7440-43-9	Cadmium	mg/kg	0.280 J Z	0.357 J Z	0.237 J Z	0.254 J Z	0.251 J Z	0.232 J Z	0.384 J Z	0.470 J Z
6020	7440-47-3	Chromium	mg/kg	36.9	23.1	14.4 J Q	22.2	19.7	23.4	28.8	20.9
6020	7440-48-4	Cobalt	mg/kg	8.69	7.98	4.16 J Q	5.71	6.95	6.73	8.33	6.37
6020	7440-50-8	Copper	mg/kg	13.9	11.5	6.47 J Q	8.06	10.7	10.7	12.4	11.3
6020	7440-62-2	Vanadium	mg/kg	49.9	43.1	24.7 J Q	34.7	37.9	41.1	55.4	37.7
6020	7440-66-6	Zinc	mg/kg	70.9	73.5	355	161	56.2	58.4	63.7	71.6
6020	7440-67-7	Zirconium	mg/kg	5.61 U	5.49 U	5.28 UJ Q	5.24 U	5.63 UJ Q	5.56 UJ Q	6.06 UJ Q	5.36 U
6020	7440-70-2	Calcium	mg/kg	3570	4920	2160 J Q	4540	9560	2800	5130	7320
6020	7723-14-0	Phosphorus	mg/kg	361	277	294 J Q	241	410	271	125	375
6020	7782-49-2	Selenium	mg/kg	0.561 U	0.549 U	0.528 UJ Q	0.524 U	0.563 U	0.556 U	0.606 U	0.536 U

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

Sample Name				SL-599-SA5C-SB-4.0-5.0	SL-600-SA5C-SB-0.0-0.5	SL-600-SA5C-SB-4.0-5.0	SL-603-SA5C-SB-0.0-0.5	SL-903-SA5C-SB-0.0-0.5	SL-603-SA5C-SB-4.0-5.0	SL-604-SA5C-SB-0.0-0.5	SL-604-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	FD	N	N	N
Sample Date				06/21/2012	05/02/2012	06/21/2012	05/03/2012	05/03/2012	06/21/2012	05/02/2012	06/20/2012
SDG				12F162	12E018	12F162	12E034	12E034	12F162	12E018	12F146
Start Depth				4	0	4	0	0	4	0	4
End Depth				5	0.5	5	0.5	0.5	5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	9990	19700 J Q	10300	8390 J Q	10100 J Q	18100	20800 J Q	12400
6020	7439-89-6	Iron	mg/kg	18200	22500 J Q	18400	18200	16600	33000	23400 J Q	20300
6020	7439-92-1	Lead	mg/kg	4.95	14.4	3.94	10.6	12.6	12.8	11.1	4.51
6020	7439-93-2	Lithium	mg/kg	20.4	16.6	21.6	13.7	16.4	37.7	18.8	24.3
6020	7439-95-4	Magnesium	mg/kg	4000	4580	4560	2840 J Q	3360 J Q	7300	5160	5380
6020	7439-96-5	Manganese	mg/kg	198 J E	409	218 J E	234	259	424 J E	421	231
6020	7439-98-7	Molybdenum	mg/kg	0.352 J Z	0.648	0.251 J Z	1.40 J FD, Q	0.442 J FD, Q, Z	0.534	0.578	0.350 J Z
6020	7440-02-0	Nickel	mg/kg	11	13.8	9.45	8.50 J Q	9.21 J Q	23.4	16	11.6
6020	9/7/7440	Potassium	mg/kg	1630	3740	1910	2700	3110	2550	3660	1860
6020	7440-22-4	Silver	mg/kg	0.509 U	0.582 U	0.515 U	0.535 U	0.523 U	0.0746 J Z	0.559 U	0.519 U
6020	7440-23-5	Sodium	mg/kg	376	107 J Z	126	63.5 J Z	74.8 J Z	546	101 J Z	199
6020	7440-24-6	Strontium	mg/kg	21.1	31	18.2	16.9 J Q	19.0 J Q	45.9	31.9	22.1
6020	7440-28-0	Thallium	mg/kg	0.215 J Z	0.310 J Z	0.217 J Z	0.260 J Z	0.230 J Z	0.352 J Z	0.295 J Z	0.218 J Z
6020	7440-31-5	Tin	mg/kg	10.2 U	11.6 U	10.3 U	10.7 U	10.5 U	10.6 U	11.2 U	10.4 U
6020	7440-32-6	Titanium	mg/kg	862	1090	912	628	725	1050	1010	929
6020	7440-36-0	Antimony	mg/kg	0.236 J Q, Z	0.352 J Z	0.146 J Q, Z	0.266 J Q, Z	0.242 J Q, Z	0.198 J Q, Z	0.246 J Z	0.181 J Z
6020	7440-38-2	Arsenic	mg/kg	5.07	4.26	3.58	4.59 J Q	3.08 J Q	10.5	4.85	4.62
6020	7440-39-3	Barium	mg/kg	75.6	137	84	80.6 J Q	91.1 J Q	173	126	92.0 J Q
6020	7440-41-7	Beryllium	mg/kg	0.542	0.675	0.445 J Z	0.475 J Q, Z	0.426 J Q, Z	1.15	0.674	0.484 J Z
6020	7440-42-8	Boron	mg/kg	5.09 U	4.23 J Z	5.15 U	5.35 U	5.23 U	5.30 U	4.25 J Z	5.19 U
6020	7440-43-9	Cadmium	mg/kg	0.171 J Z	0.401 J Z	0.165 J Z	0.288 J Z	0.283 J Z	0.282 J Z	0.402 J Z	0.168 J Z
6020	7440-47-3	Chromium	mg/kg	15.3	22.9	14.6	13.9 J Q	15.4 J Q	30.1	24.8	18.8
6020	7440-48-4	Cobalt	mg/kg	6.4	7.82	4.6	4.39 J Q	5.06 J Q	9.54	8.8	5.08
6020	7440-50-8	Copper	mg/kg	7.72	12.7	5.93	7.39 J Q	8.88 J Q	19.4	12.6	7.75
6020	7440-62-2	Vanadium	mg/kg	28.1	43.7	27.9	26.5 J Q	27.7 J Q	48	47.9	34.9
6020	7440-66-6	Zinc	mg/kg	51.4	71.3	51.6	45.4	55.5	100	68.4	52.5
6020	7440-67-7	Zirconium	mg/kg	5.09 UJ Q	5.82 U	5.15 UJ Q	5.35 UJ Q	5.23 UJ Q	5.30 UJ Q	5.59 U	5.19 UJ Q
6020	7440-70-2	Calcium	mg/kg	2900	3800	2800	2370 J Q	2790 J Q	7230	5160	3330
6020	7723-14-0	Phosphorus	mg/kg	309	261	302	273 J Q	277 J Q	546	239	322
6020	7782-49-2	Selenium	mg/kg	0.509 U	0.582 U	0.515 U	0.535 UJ Q	0.523 UJ Q	0.530 U	0.559 U	0.519 U

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

Sample Name				SL-606-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-4.0-5.0	SL-607-SA5C-SB-9.0-10.0	SL-608-SA5C-SB-0.0-0.5	SL-608-SA5C-SB-2.0-3.0	SL-609-SA5C-SB-0.0-0.5	SL-609-SA5C-SB-3.0-4.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/03/2012	07/11/2012	07/11/2012	07/11/2012	05/09/2012	05/31/2012	05/09/2012	05/31/2012
SDG				12E034	12G064	12G064	12G064	12E067	12E267	12E067	12E267
Start Depth				0	0	4	9	0	2	0	3
End Depth				0.5	0.5	5	10	0.5	3	0.5	4
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	7580 J Q	13800	13900	15100	8700	10100	10800	14700
6020	7439-89-6	Iron	mg/kg	15300	18700	20900	30600	16100	18600	17700	22200
6020	7439-92-1	Lead	mg/kg	17.3	5.18	6.03	9.49	49.1 J Q	3.66	12.5 J Q	5.95
6020	7439-93-2	Lithium	mg/kg	12.5	16.6	14.2	34.6	11.3	17.6	14.4	22
6020	7439-95-4	Magnesium	mg/kg	2790 J Q	4040	4050	6710	4510	4440 J Q	3860	5480 J Q
6020	7439-96-5	Manganese	mg/kg	171	227	142	286	405 J E	247	281 J E	185
6020	7439-98-7	Molybdenum	mg/kg	2.60 J Q	0.422 J Z	0.688	0.664	1.13	0.228 J Z	0.961	0.599
6020	7440-02-0	Nickel	mg/kg	9.91 J Q	7.95	8.37	18.7	12.1 J E	8.06	9.61 J E	11.3
6020	9/7/7440	Potassium	mg/kg	2250	2430	1600	2600	3190	2450	3740	2350
6020	7440-22-4	Silver	mg/kg	0.504 U	0.554 U	0.566 U	0.0989 J Z	0.0654 J Z	0.514 U	0.104 J Z	0.534 U
6020	7440-23-5	Sodium	mg/kg	75.0 J Z	128	326	625	284	157	88.9 J Z	326
6020	7440-24-6	Strontium	mg/kg	14.3 J Q	19.6	31.7	42	76	16.9	18.8	24.3
6020	7440-28-0	Thallium	mg/kg	0.168 J Z	0.236 J Z	0.241 J Z	0.58	0.143 J Z	0.237 J Z	0.224 J Z	0.257 J Z
6020	7440-31-5	Tin	mg/kg	10.1 U	11.1 U	11.3 U	11.1 U	10.1 U	10.3 U	11.0 U	10.7 U
6020	7440-32-6	Titanium	mg/kg	591	823	648	972	920	997	997	1080
6020	7440-36-0	Antimony	mg/kg	0.389 J Q, Z	0.123 J Z	0.165 J Z	0.470 J Z	1.21 J Q	0.209 J Z	0.303 J Q, Z	0.236 J Z
6020	7440-38-2	Arsenic	mg/kg	2.50 J Q	3.97	4.1	10.7	4.95	3.24	3.13	4.64
6020	7440-39-3	Barium	mg/kg	61.4 J Q	80.8	114	114	129 J Q	76.6	108 J Q	89.7
6020	7440-41-7	Beryllium	mg/kg	0.282 J Q, Z	0.525 J Z	0.64	0.982	0.284 J Z	0.453 J Z	0.447 J Z	0.662
6020	7440-42-8	Boron	mg/kg	5.04 U	5.54 U	5.66 U	5.55 U	3.72 J Z	5.14 U	5.48 U	5.34 U
6020	7440-43-9	Cadmium	mg/kg	0.292 J Z	0.178 J Z	0.123 J Z	0.217 J Z	0.556	0.0907 J Z	0.378 J Z	0.0976 J Z
6020	7440-47-3	Chromium	mg/kg	16.2 J Q	14.4	18.8	25.2	16.7	15.3	16.8	20.7
6020	7440-48-4	Cobalt	mg/kg	3.82 J Q	4.7	4.31	8.6	11.5 J E	5.06	5.56 J E	5.85
6020	7440-50-8	Copper	mg/kg	15.7 J Q	6.29	7.14	16.3	16.1 J Q	5.96	11.8 J Q	8.78
6020	7440-62-2	Vanadium	mg/kg	21.3 J Q	29.6	32.5	45.2	32.1	29.6	29.9	37.4
6020	7440-66-6	Zinc	mg/kg	60.5	44.1	38.5	80.5	86.3	50.7	61.4	58.8
6020	7440-67-7	Zirconium	mg/kg	5.04 UJ Q	5.54 U	5.66 U	5.55 U	4.81 J Q, Z	5.14 UJ Q	5.48 UJ Q	5.34 UJ Q
6020	7440-70-2	Calcium	mg/kg	3850 J Q	3610	3470	6420	30800 J Q	2420	2950 J Q	3060
6020	7723-14-0	Phosphorus	mg/kg	299 J Q	225	113	515	583	307	382	376
6020	7782-49-2	Selenium	mg/kg	0.504 UJ Q	0.554 U	0.566 U	0.555 U	0.506 U	0.514 U	0.548 U	0.534 U

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

Sample Name				SL-610-SA5C-SB-0.0-0.5	SL-611-SA5C-SB-0.0-0.5	SL-611-SA5C-SB-5.0-6.0	SL-612-SA5C-SB-0.0-0.5	SL-612-SA5C-SB-4.0-5.0	SL-912-SA5C-SB-4.0-5.0	SL-612-SA5C-SB-7.0-8.0	SL-615-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	FD	N	N
Sample Date				05/31/2012	05/31/2012	05/31/2012	05/03/2012	05/31/2012	05/31/2012	05/31/2012	05/07/2012
SDG				12E267	12E267	12E267	12E034	12E267	12E267	12E267	12E049
Start Depth				0	0	5	0	4	4	7	0
End Depth				0.5	0.5	6	0.5	5	5	8	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	8970	10200	13500	12100 J Q	11700	12900	15400	14200 J Q
6020	7439-89-6	Iron	mg/kg	16500	16900	19500	19900	23300	25200	35500	19700
6020	7439-92-1	Lead	mg/kg	47.6	5.45	5.08	22.3	13.1	8.06	9.17	29.9
6020	7439-93-2	Lithium	mg/kg	13.6	12	17	19.7	24	26.7	31.2	13.8
6020	7439-95-4	Magnesium	mg/kg	4310 J Q	3440 J Q	3910 J Q	4140 J Q	4750 J Q	5140 J Q	6150 J Q	4060 J Q
6020	7439-96-5	Manganese	mg/kg	232	240	114	269	220	174	389	281
6020	7439-98-7	Molybdenum	mg/kg	1.37	4.69	0.371 J Z	0.547 J Q	0.453 J Z	0.276 J Z	0.446 J Z	3.10 J Q
6020	7440-02-0	Nickel	mg/kg	9.94	10.7	6.18	10.9 J Q	13.6	14.1	20.1	72.8 J Q
6020	9/7/7440	Potassium	mg/kg	3710	2580	1350	3640	2100	1470	1900	3520
6020	7440-22-4	Silver	mg/kg	0.0832 J Z	0.537 U	0.0670 J Z	0.525 U	0.506 U	0.527 U	0.553 U	0.0648 J Z
6020	7440-23-5	Sodium	mg/kg	149	91.8 J Z	116	68.0 J Z	314	428	932	80.3 J Z
6020	7440-24-6	Strontium	mg/kg	40	29.7	23.1	19.7 J Q	33.6	37.4	46.9	23.0 J Q
6020	7440-28-0	Thallium	mg/kg	0.192 J Z	0.189 J Z	0.216 J Z	0.242 J Z	0.269 J Z	0.246 J Z	0.283 J Z	0.246 J Z
6020	7440-31-5	Tin	mg/kg	9.98 U	10.7 U	10.9 U	10.5 U	10.1 U	10.5 U	11.1 U	10.9 U
6020	7440-32-6	Titanium	mg/kg	971	614	889	785	783	680	721	734
6020	7440-36-0	Antimony	mg/kg	1.3	0.229 J Z	0.197 J Z	0.312 J Q, Z	0.331 J Z	0.210 J Z	0.276 J Z	0.348 J Q, Z
6020	7440-38-2	Arsenic	mg/kg	2.85	3.65	4.37	4.03 J Q	6.2	6.91	9.84	3.46 J Q
6020	7440-39-3	Barium	mg/kg	109	85.7	57.3	98.4 J Q	113	117	110	114 J Q
6020	7440-41-7	Beryllium	mg/kg	0.319 J Z	0.437 J Z	0.542 J Z	0.516 J Q, Z	0.822	0.868	1.14	0.522 J Q, Z
6020	7440-42-8	Boron	mg/kg	3.00 J Z	5.37 U	5.43 U	5.25 U	5.06 U	5.27 U	5.53 U	2.82 J Z
6020	7440-43-9	Cadmium	mg/kg	0.598	0.207 J Z	0.0770 J Z	0.410 J Z	0.227 J FD, Z	0.136 J FD, Z	0.174 J Z	0.415 J Z
6020	7440-47-3	Chromium	mg/kg	17.5	14.8	16.2	19.7 J Q	20.4	21.6	26.1	128 J Q
6020	7440-48-4	Cobalt	mg/kg	5.3	5.04	3.16	5.59 J Q	8.11	6.58	12.8	6.95 J Q
6020	7440-50-8	Copper	mg/kg	13.4	9.13	5.75	10.5 J Q	12.1	13.5	19.5	12.1 J Q
6020	7440-62-2	Vanadium	mg/kg	29.4	29.9	33.7	33.4 J Q	37.2	37.9	49	37.5 J Q
6020	7440-66-6	Zinc	mg/kg	84.4	41.1	36.3	106	74.5	61.9	73.2	72.7
6020	7440-67-7	Zirconium	mg/kg	4.99 UJ Q	5.37 UJ Q	5.43 UJ Q	5.25 UJ Q	5.06 UJ Q	5.27 UJ Q	5.53 UJ Q	5.47 UJ Q
6020	7440-70-2	Calcium	mg/kg	13400	5280	2280	3340 J Q	6370	5540	5250	3880 J Q
6020	7723-14-0	Phosphorus	mg/kg	560	488	116	448 J Q	355	329	489	312 J Q
6020	7782-49-2	Selenium	mg/kg	0.499 U	0.569	0.543 U	0.525 UJ Q	0.506 U	0.527 U	0.553 U	0.547 UJ Q

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Sample Name				SL-615-SA5C-SB-4.0-5.0	SL-615-SA5C-SB-9.0-10.0	SL-618-SA5C-SB-0.0-1.0	SL-619-SA5C-SB-0.0-0.5	SL-620-SA5C-SB-0.0-0.5	SL-621-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/05/2012	06/05/2012	05/30/2012	05/30/2012	05/30/2012	05/30/2012	04/25/2012	07/09/2012
SDG				12F037	12F037	12E267	12E267	12E229	12E244	12D231	12G030
Start Depth				4	9	0	0	0	0	0	4
End Depth				5	10	1	0.5	0.5	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	14800	11900	8010	8390	11600	12400	11700	19000
6020	7439-89-6	Iron	mg/kg	25300	19900	15900	17100	22400	22900	17300	21300
6020	7439-92-1	Lead	mg/kg	8.69	4.86	3.24	3.62	6.13	8.25	6.53	6.22
6020	7439-93-2	Lithium	mg/kg	17.1	19.1	20.1	19.5	25.1	31.6	12.6	16.6
6020	7439-95-4	Magnesium	mg/kg	4040	3600	3640 J Q	3830 J Q	5470	5340 J Q	3920	4060
6020	7439-96-5	Manganese	mg/kg	308 J E	199 J E	192	192	344	301	300	198
6020	7439-98-7	Molybdenum	mg/kg	0.542 J Z	0.396 J Z	0.455 J Z	2.98	1.4	8.51	0.544	0.358 J Z
6020	7440-02-0	Nickel	mg/kg	10.5	9.6	8.76	9.81	16.6	14.4	9.4	10.6
6020	9/7/7440	Potassium	mg/kg	1780	1720	2320	1960	2210	2590	3230	1380
6020	7440-22-4	Silver	mg/kg	0.0717 J Z	0.142 J Z	0.521 U	0.524 U	0.505 U	0.528 U	0.533 U	0.0551 J Z
6020	7440-23-5	Sodium	mg/kg	303	361	109	124	256	241	124	229
6020	7440-24-6	Strontium	mg/kg	30.6	23	17.4	28.8	22.8	54.8	25.3	33.7
6020	7440-28-0	Thallium	mg/kg	0.265 J Z	0.286 J Z	0.211 J Z	0.207 J Z	0.239 J Z	0.266 J Z	0.232 J Z	0.234 J Z
6020	7440-31-5	Tin	mg/kg	11.0 U	11.0 U	10.4 U	10.5 U	10.1 U	10.6 U	10.7 U	10.7 U
6020	7440-32-6	Titanium	mg/kg	901	688	760	703	963	839	976	753
6020	7440-36-0	Antimony	mg/kg	0.246 J Z	0.256 J Z	0.207 J Z	0.236 J Z	0.310 J Z	0.313 J Z	0.234 J Q, Z	0.186 J Z
6020	7440-38-2	Arsenic	mg/kg	6.05	4.37	4.53	4.83	6.24	9.76	4.61	4.64
6020	7440-39-3	Barium	mg/kg	115	75.8	86.6	61	76.5	96.9	125	129
6020	7440-41-7	Beryllium	mg/kg	1.02	0.614	0.331 J Z	0.369 J Z	0.563	0.587	0.468 J Z	0.792
6020	7440-42-8	Boron	mg/kg	5.50 U	5.51 U	5.21 U	5.24 U	5.05 U	5.28 U	3.59 J Z	5.37 U
6020	7440-43-9	Cadmium	mg/kg	0.169 J Z	0.119 J Z	0.0950 J Z	0.183 J Z	0.184 J Z	0.329 J Z	0.225 J Z	0.153 J Z
6020	7440-47-3	Chromium	mg/kg	20.1	19.6	15.6	16.3	23.4	19	15.3	19.9
6020	7440-48-4	Cobalt	mg/kg	10.8	5.46	4.45	4.15	6.94	7.69	5.88	5.56 J A
6020	7440-50-8	Copper	mg/kg	8.56	8.21	6.51	8.1	11	13.6	10.1	6.09
6020	7440-62-2	Vanadium	mg/kg	41.5	31.5	28.9	30.7	39.9	34.3	33.8	38.1
6020	7440-66-6	Zinc	mg/kg	41	41.5	44.6	45.2	61.2	67	54.1	38.2
6020	7440-67-7	Zirconium	mg/kg	5.50 U	5.51 U	5.21 UJ Q	5.24 UJ Q	5.05 U	5.28 UJ Q	5.33 U	5.37 U
6020	7440-70-2	Calcium	mg/kg	3830	3600	2680	5550	3840	22600	2830	3130
6020	7723-14-0	Phosphorus	mg/kg	143	180	431	701	482	612	348	74.7
6020	7782-49-2	Selenium	mg/kg	0.550 U	0.551 U	0.521 U	0.524 U	0.505 U	0.508 J Z	0.533 U	0.537 U

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

Sample Name				SL-623-SA5C-SB-9.0-10.0	SL-628-SA5C-SB-11.5-12.5	SL-630-SA5C-SB-8.0-9.0	SL-640-SA5C-SB-5.0-6.0	SL-640-SA5C-SB-10.0-11.0	SL-640-SA5C-SB-15.0-16.0	SL-640-SA5C-SB-19.0-20.0
Sample Type				N	N	N	N	N	N	N
Sample Date				07/09/2012	06/20/2012	06/20/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
SDG				12G030	12F146	12F146	12G048	12G048	12G048	12G048
Start Depth				9	11.5	8	5	10	15	19
End Depth				10	12.5	9	6	11	16	20
Analytic Method	CAS Number	Chemical Name	Unit							
6020	7429-90-5	Aluminum	mg/kg	12400	13100	11100	21200	16200	15800	14700
6020	7439-89-6	Iron	mg/kg	17700	19200	17000	25300	23600	23800	23200
6020	7439-92-1	Lead	mg/kg	4.51	5.72	10.7	7.93	7.69	6.37	6.78
6020	7439-93-2	Lithium	mg/kg	19.4	20.2	12.4	20.5	22.6	19.9	25
6020	7439-95-4	Magnesium	mg/kg	3690	4470	3940	5350	5400	5510	5240
6020	7439-96-5	Manganese	mg/kg	197	246	213	226	437	325	585
6020	7439-98-7	Molybdenum	mg/kg	0.439 J Z	0.932	0.773	0.328 J Z	0.568	0.330 J Z	0.513 J Z
6020	7440-02-0	Nickel	mg/kg	9.11	8.98	7.99	12.6	16.9	18.8	24.1
6020	9/7/7440	Potassium	mg/kg	1730	3550	2850	2500	3260	3060	2880
6020	7440-22-4	Silver	mg/kg	0.517 U	0.540 U	0.529 U	0.559 U	0.546 U	0.582 U	0.602 U
6020	7440-23-5	Sodium	mg/kg	263	74.0 J Z	157	338	369	269	205
6020	7440-24-6	Strontium	mg/kg	22.5	17.7	35	62.2	37.1	42.5	38.8
6020	7440-28-0	Thallium	mg/kg	0.190 J Z	0.238 J Z	0.172 J Z	0.298 J Z	0.314 J Z	0.262 J Z	0.275 J Z
6020	7440-31-5	Tin	mg/kg	10.3 U	10.8 U	10.6 U	11.2 U	10.9 U	11.6 U	12.0 U
6020	7440-32-6	Titanium	mg/kg	732	966	815	908	1020	895	995
6020	7440-36-0	Antimony	mg/kg	0.144 J Z	0.206 J Z	0.165 J Z	0.194 J Z	0.191 J Z	0.220 J Z	0.192 J Z
6020	7440-38-2	Arsenic	mg/kg	5	3.74	2.7	5.55	6.11	4.6	5.49
6020	7440-39-3	Barium	mg/kg	78.1	96.0 J Q	91.7 J Q	133 J Q	113 J Q	85.2 J Q	98.1 J Q
6020	7440-41-7	Beryllium	mg/kg	0.451 J Z	0.455 J Z	0.365 J Z	0.835	0.676	0.631	0.615
6020	7440-42-8	Boron	mg/kg	5.17 U	5.40 U	5.29 U	5.59 U	5.46 U	5.82 U	6.02 U
6020	7440-43-9	Cadmium	mg/kg	0.147 J Z	0.174 J Z	0.158 J Z	0.172 J Z	0.319 J Z	0.322 J Z	0.566 J Z
6020	7440-47-3	Chromium	mg/kg	15.7	17.2	14.5	24.6	21.1	21.7	20.9
6020	7440-48-4	Cobalt	mg/kg	4.38 J A	4.8	5.56	6.88	7.44	6.93	9.65
6020	7440-50-8	Copper	mg/kg	8.12	8.75	8.44	9.51	10.6	11.4	10.2
6020	7440-62-2	Vanadium	mg/kg	29.6	31.4	31.4	44.8	42	37.6	38.5
6020	7440-66-6	Zinc	mg/kg	43.9	58.3	47.3	50.9	60.4	56.5	60.3
6020	7440-67-7	Zirconium	mg/kg	5.17 U	5.40 UJ Q	5.29 UJ Q	5.59 U	5.46 U	3.39 J Z	3.11 J Z
6020	7440-70-2	Calcium	mg/kg	2950	2870	3830	17900	3680	7010	12000
6020	7723-14-0	Phosphorus	mg/kg	207	437	475	132	273	324	361
6020	7782-49-2	Selenium	mg/kg	0.517 U	0.540 U	0.529 U	0.559 U	0.546 U	0.582 U	0.602 U

U - Compound not detected above the reporting limit  
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R - Result is rejected

Sample Name				SL-641-SA5C-SB-4.0-5.0	SL-641-SA5C-SB-9.0-10.0	SL-641-SA5C-SB-14.0-15.0	SL-641-SA5C-SB-18.5-19.5	SL-642-SA5C-SB-4.0-5.0	SL-642-SA5C-SB-9.0-10.0	SL-642-SA5C-SB-14.0-15.0
Sample Type				N	N	N	N	N	N	N
Sample Date				07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
SDG				12G048	12G048	12G048	12G048	12G048	12G048	12G048
Start Depth				4	9	14	18.5	4	9	14
End Depth				5	10	15	19.5	5	10	15
Analytic Method	CAS Number	Chemical Name	Unit							
6020	7429-90-5	Aluminum	mg/kg	21900	12000	16300	9090	20700	15000	13800
6020	7439-89-6	Iron	mg/kg	24100	18200	22000	17300	24700	21600	21400
6020	7439-92-1	Lead	mg/kg	7.22	4.31	5.13	5.53	7.02	5.25	5.24
6020	7439-93-2	Lithium	mg/kg	26.9	20.7	21.3	18.8	24.7	18.4	20.5
6020	7439-95-4	Magnesium	mg/kg	5370	3900	5310	3490	5200	4610	4890
6020	7439-96-5	Manganese	mg/kg	150	478	156	439	182	145	163
6020	7439-98-7	Molybdenum	mg/kg	0.227 J Z	0.342 J Z	0.188 J Z	0.407 J Z	0.222 J Z	0.183 J Z	0.467 J Z
6020	7440-02-0	Nickel	mg/kg	12	17.1	11.3	14.5	13	11.2	11.6
6020	9/7/7440	Potassium	mg/kg	1970	2350	2620	2170	2150	2260	2810
6020	7440-22-4	Silver	mg/kg	0.0576 J Z	0.539 U	0.571 U	0.567 U	0.553 U	0.0670 J Z	0.568 U
6020	7440-23-5	Sodium	mg/kg	337	228	241	126	396	379	245
6020	7440-24-6	Strontium	mg/kg	73.6	25.2	63.2	18.5	91.9	37.7	36.8
6020	7440-28-0	Thallium	mg/kg	0.285 J Z	0.228 J Z	0.264 J Z	0.183 J Z	0.277 J Z	0.239 J Z	0.255 J Z
6020	7440-31-5	Tin	mg/kg	11.1 U	10.8 U	11.4 U	11.3 U	11.1 U	11.1 U	11.4 U
6020	7440-32-6	Titanium	mg/kg	859	916	947	821	904	860	944
6020	7440-36-0	Antimony	mg/kg	0.161 J Z	0.157 J Z	0.204 J Z	0.167 J Z	0.162 J Z	0.554 U	0.209 J Z
6020	7440-38-2	Arsenic	mg/kg	5.39	5.45	2.85	4.55	5.01	2.16	4.24
6020	7440-39-3	Barium	mg/kg	154 J Q	86.1 J Q	84.7 J Q	68.1 J Q	147 J Q	66.6 J Q	82.5 J Q
6020	7440-41-7	Beryllium	mg/kg	0.863	0.493 J Z	0.636	0.416 J Z	0.866 J Z	0.653	0.534 J Z
6020	7440-42-8	Boron	mg/kg	5.54 U	5.39 U	2.97 J Z	5.67 U	27.7 U	5.54 U	5.68 U
6020	7440-43-9	Cadmium	mg/kg	0.190 J Z	0.393 J Z	0.215 J Z	0.346 J Z	0.232 J Z	0.174 J Z	0.192 J Z
6020	7440-47-3	Chromium	mg/kg	23.6	15.9	24	12	25.4	21.7	20.2
6020	7440-48-4	Cobalt	mg/kg	5.37	6.73	4.42	7.53	8.18	4.33	4.42
6020	7440-50-8	Copper	mg/kg	7.76	8.06	9.75	6.21	9.15	8.16	9.31
6020	7440-62-2	Vanadium	mg/kg	43.4	34.5	33.6	28	45.7	28.4	35
6020	7440-66-6	Zinc	mg/kg	46.9	44.2	55.2	40.8	48.2	50.6	54
6020	7440-67-7	Zirconium	mg/kg	5.54 U	5.39 U	3.48 J Z	5.67 U	3.05 J Z	5.54 U	5.68 U
6020	7440-70-2	Calcium	mg/kg	28100	2720	22800	2380	41500	5100	6380
6020	7723-14-0	Phosphorus	mg/kg	77.7	252	293	268	101	207	324
6020	7782-49-2	Selenium	mg/kg	0.554 U	0.539 U	0.571 U	0.567 U	0.553 U	0.554 U	0.568 U

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

Sample Name				SL-642-SA5C-SB-17.5-18.5	SL-670-SA5C-SB-0.0-0.5	SL-670-SA5C-SB-4.0-5.0	SL-671-SA5C-SB-0.0-0.5	SL-671-SA5C-SB-2.0-3.0	SL-672-SA5C-SB-0.0-0.5	SL-672-SA5C-SB-4.0-5.0	SL-673-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				07/10/2012	06/19/2012	06/19/2012	05/08/2012	05/23/2012	05/08/2012	05/24/2012	05/08/2012
SDG				12G048	12F132	12F132	12E055	12E187	12E204	12E204	12E055
Start Depth				17.5	0	4	0	2	0	4	0
End Depth				18.5	0.5	5	0.5	3	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	10900	17000	10200	9480 J Q	13900	21200	28500	6920 J Q
6020	7439-89-6	Iron	mg/kg	20000	22000	26000	15500	23700	21300 J A	37800 J A	12600
6020	7439-92-1	Lead	mg/kg	4.04	7.08	6.23	649	6.9	6.37	8.43	16.4
6020	7439-93-2	Lithium	mg/kg	24.2	19.9	30.2	15.5	20.7	20.3	38.2	13.2
6020	7439-95-4	Magnesium	mg/kg	4410	3750	4720	3550 J Q	4760	3940	8130	2930 J Q
6020	7439-96-5	Manganese	mg/kg	168	123	234	188	121	105 J A	163 J A	142
6020	7439-98-7	Molybdenum	mg/kg	0.295 J Z	0.505 J Z	0.79	0.575 J Q	0.504 J Z	0.381 J Z	0.361 J Z	0.339 J Q, Z
6020	7440-02-0	Nickel	mg/kg	8.91	8.97	17.6	10.9 J Q	10	9.19	21.2	7.10 J Q
6020	9/7/7440	Potassium	mg/kg	2020	1140	2150	2280	1210	1120	2570	1930
6020	7440-22-4	Silver	mg/kg	0.533 U	0.554 U	0.528 U	0.296 J Z	0.550 U	0.557 U	0.0604 J Z	0.146 J Z
6020	7440-23-5	Sodium	mg/kg	152	435	591	109	403	524	1480	84.4 J Z
6020	7440-24-6	Strontium	mg/kg	24.5	25.2	28.5	20.3 J Q	27.3	26.1	60.7	16.7 J Q
6020	7440-28-0	Thallium	mg/kg	0.202 J Z	0.185 J Z	0.736	0.177 J Z	0.199 J Z	0.223 J Z	0.376 J Z	0.165 J Z
6020	7440-31-5	Tin	mg/kg	10.7 U	11.1 U	10.6 U	10.3 U	11.0 U	11.1 U	11.5 U	10.8 U
6020	7440-32-6	Titanium	mg/kg	951	684	940	758	794	837	802	584
6020	7440-36-0	Antimony	mg/kg	0.138 J Z	0.231 J Z	1.78	0.433 J Q, Z	0.258 J Z	0.224 J Z	0.177 J Z	0.311 J Q, Z
6020	7440-38-2	Arsenic	mg/kg	5.29	5.86	34.1	3.30 J Q	5.9	4.45	6.93	2.72 J Q
6020	7440-39-3	Barium	mg/kg	57.4 J Q	75.6	66.7	69.6 J Q	62.4	83.7	125	55.3 J Q
6020	7440-41-7	Beryllium	mg/kg	0.439 J Z	0.658	0.59	0.398 J Q, Z	0.581	0.583	1.58	0.315 J Q, Z
6020	7440-42-8	Boron	mg/kg	5.33 U	5.54 U	5.28 U	2.95 J Z	5.50 U	5.57 U	5.77 U	5.39 U
6020	7440-43-9	Cadmium	mg/kg	0.151 J Z	0.104 J Z	0.207 J Z	1.04	0.130 J Z	0.110 J Z	0.203 J Z	2.8
6020	7440-47-3	Chromium	mg/kg	15.4	20.6	19.1	21.1 J Q	24.3	21.3	44.5	13.6 J Q
6020	7440-48-4	Cobalt	mg/kg	4.53	3.67	6.24	4.17 J Q	3.97	3.29 J A	7.63 J A	3.48 J Q
6020	7440-50-8	Copper	mg/kg	6.74	8.09	11.7	14.2 J Q	9.45	6.22	27	8.66 J Q
6020	7440-62-2	Vanadium	mg/kg	31.9	37.5	35.9	25.3 J Q	34.1	35.4	51.8	20.5 J Q
6020	7440-66-6	Zinc	mg/kg	45.5	35.1	57.2	100	46.4	74.5	80.2	229
6020	7440-67-7	Zirconium	mg/kg	5.33 U	5.54 U	5.28 U	5.16 UJ Q	5.50 U	5.57 U	5.77 U	5.39 UJ Q
6020	7440-70-2	Calcium	mg/kg	3290	2750	3150	2390 J Q	2920	2790	6660	2150 J Q
6020	7723-14-0	Phosphorus	mg/kg	256	77.1	496	348 J Q	157	75.8	427	292 J Q
6020	7782-49-2	Selenium	mg/kg	0.533 U	0.554 U	0.528 U	0.516 UJ Q	0.550 U	0.557 U	0.577 U	0.539 UJ Q

U - Compound not detected above the reporting limit  
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R - Result is rejected

Sample Name				SL-674-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-2.5-3.5	SL-675-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-4.0-5.0	SL-976-SA5C-SB-4.0-5.0	SL-677-SA5C-SB-0.0-0.5	SL-677-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	FD	N	N
Sample Date				05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/24/2012	05/24/2012
SDG				12E187	12E187	12E187	12E187	12E187	12E187	12E204	12E204
Start Depth				0	2.5	0	0	4	4	0	4
End Depth				0.5	3.5	0.5	0.5	5	5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	12100	15900	10300	14000	13900	14300	31200	15100
6020	7439-89-6	Iron	mg/kg	16500	18300	18200	18300	20200	19800	26700 J A	18000 J A
6020	7439-92-1	Lead	mg/kg	5.15	4.72	4.6	5.2	5.8	5.4	7.84	4.68
6020	7439-93-2	Lithium	mg/kg	13.9	16.9	25.6	16.6	29.5	28.2	28.2	13.1
6020	7439-95-4	Magnesium	mg/kg	3240	3720	4720	3930	4590	4570	5670	3900
6020	7439-96-5	Manganese	mg/kg	182	103	215	112	130	102	122 J A	101 J A
6020	7439-98-7	Molybdenum	mg/kg	0.475 J Z	0.841	0.417 J Z	0.315 J Z	0.469 J Z	0.338 J Z	0.886	0.504 J Z
6020	7440-02-0	Nickel	mg/kg	7.9	9	9.85	7.17	7.78	7.26	12.7	6.81
6020	9/7/7440	Potassium	mg/kg	1740	1390	2870	1580	1850	1580	1650	1680
6020	7440-22-4	Silver	mg/kg	0.542 U	0.0579 J Z	0.512 U	0.550 U	0.563 U	0.552 U	0.113 J Z	0.546 U
6020	7440-23-5	Sodium	mg/kg	196	290	210	327	729	793	580	464
6020	7440-24-6	Strontium	mg/kg	22.1	23.6	17.1	22.2	25	22.6	29.4	16.3
6020	7440-28-0	Thallium	mg/kg	0.219 J Z	0.200 J Z	0.227 J Z	0.254 J Z	0.238 J Z	0.230 J Z	0.274 J Z	0.246 J Z
6020	7440-31-5	Tin	mg/kg	10.8 U	10.6 U	10.2 U	11.0 U	11.3 U	11.0 U	11.6 U	10.9 U
6020	7440-32-6	Titanium	mg/kg	824	698	1070	955	906	962	1160	997
6020	7440-36-0	Antimony	mg/kg	0.288 J Z	0.301 J Z	0.194 J Z	0.218 J Z	0.310 J Z	0.214 J Z	0.331 J Z	0.177 J Z
6020	7440-38-2	Arsenic	mg/kg	4.76	4.49	3.73	4.53	6.06	4.34	6.66	4.25
6020	7440-39-3	Barium	mg/kg	81	171	80.8	83.3	95.6	85.9	131	64.6
6020	7440-41-7	Beryllium	mg/kg	0.546	0.647	0.525	0.597	0.705	0.657	1.13	0.616
6020	7440-42-8	Boron	mg/kg	5.42 U	5.32 U	5.12 U	5.50 U	5.63 U	5.52 U	5.78 U	5.46 U
6020	7440-43-9	Cadmium	mg/kg	0.158 J Z	0.128 J Z	0.201 J Z	0.147 J Z	0.175 J Z	0.152 J Z	0.156 J Z	0.137 J Z
6020	7440-47-3	Chromium	mg/kg	15.1	20.1	15.1	16.1	16.2	17.3	25	18
6020	7440-48-4	Cobalt	mg/kg	4.17	3.32	5.75	3.88	3.57	3.09	4.22 J A	4.52 J A
6020	7440-50-8	Copper	mg/kg	6.18	6.72	6.73	5.52	6.21	5.62	7.59	5.48
6020	7440-62-2	Vanadium	mg/kg	29.8	30.8	32.7	31.2	35.9	33.7	49.5	35.4
6020	7440-66-6	Zinc	mg/kg	33.8	36.3	53.2	35.1	38.8	37	44.5	32.7
6020	7440-67-7	Zirconium	mg/kg	5.42 U	5.32 U	5.12 U	5.50 U	5.63 U	5.52 U	5.78 U	5.46 U
6020	7440-70-2	Calcium	mg/kg	3060	2160	2240	2530	2460	1980	2630	1570
6020	7723-14-0	Phosphorus	mg/kg	133	94.3	330	93.2	258	101	111	109
6020	7782-49-2	Selenium	mg/kg	0.542 U	0.532 U	0.512 U	0.550 U	0.563 U	0.552 U	0.578 U	0.546 U

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

Sample Name				SL-678-SA5C-SB-0.0-0.5	SL-678-SA5C-SB-2.5-3.5	SL-679-SA5C-SB-0.0-0.5	SL-680-SA5C-SB-0.0-0.5	SL-681-SA5C-SB-0.0-0.5	SL-681-SA5C-SB-4.0-5.0	SL-681-SA5C-SB-7.5-8.5	SL-682-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/23/2012	05/23/2012	04/12/2012	04/17/2012	04/12/2012	05/23/2012	05/23/2012	05/22/2012
SDG				12E187	12E187	12D121	12D155	12D121	12E187	12E187	12E169
Start Depth				0	2.5	0	0	0	4	7.5	0
End Depth				0.5	3.5	0.5	0.5	0.5	5	8.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	18200	16300	15200	15900 J Q	11000	19500	13800	12700 J Q
6020	7439-89-6	Iron	mg/kg	23000	20700	20100 J A	23100	17400 J A	22900	24000	19600
6020	7439-92-1	Lead	mg/kg	6.23	5.45	6.39	11.6	7.9	5.08	3.83	5.05
6020	7439-93-2	Lithium	mg/kg	22	29.4	17.9	24.8	17.9	26.1	22.8	21.9
6020	7439-95-4	Magnesium	mg/kg	4750	4700	5300	5170	4570	5210	5530	4440 J Q
6020	7439-96-5	Manganese	mg/kg	136	119	208	320 J E	237	165	444	231
6020	7439-98-7	Molybdenum	mg/kg	0.338 J Z	0.336 J Z	0.343 J Z	0.513 J Z	0.348 J Z	0.632	0.588	0.425 J Z
6020	7440-02-0	Nickel	mg/kg	8.55	10.2	7.55	12	7.28	9.05	10.4	9.3
6020	9/7/7440	Potassium	mg/kg	1770	2010	2480	3630	3160	1890	2390	2340
6020	7440-22-4	Silver	mg/kg	0.548 U	0.533 U	0.554 U	0.0775 J Z	0.517 U	0.555 U	0.537 U	0.553 U
6020	7440-23-5	Sodium	mg/kg	285	259	208	159	203	1150	713	71.3 J Z
6020	7440-24-6	Strontium	mg/kg	25.4	21.9	23.3	27.8	26.9	25.5	18	17.1
6020	7440-28-0	Thallium	mg/kg	0.299 J Z	0.284 J Z	0.257 J Z	0.315 J Z	0.227 J Z	0.238 J Z	0.279 J Z	0.258 J Z
6020	7440-31-5	Tin	mg/kg	11.0 U	10.7 U	11.1 U	11.5 U	10.3 U	11.1 U	10.7 U	11.1 U
6020	7440-32-6	Titanium	mg/kg	1100	1040	1320	1180	1080	1180	1350	1010
6020	7440-36-0	Antimony	mg/kg	0.231 J Z	0.216 J Z	0.281 J Q, E, Z	1.20 J Q	0.251 J Q, E, Z	0.244 J Z	0.235 J Z	0.208 J Z
6020	7440-38-2	Arsenic	mg/kg	6.19	5.13	3.99	4.74	3.15	4.51	5.07	4.15
6020	7440-39-3	Barium	mg/kg	119	95.1	89.9	118 J Q, E	113	98.5	111	87.5
6020	7440-41-7	Beryllium	mg/kg	0.911	0.768	0.517 J Z	0.703	0.359 J Z	0.79	0.611	0.578
6020	7440-42-8	Boron	mg/kg	22.1	15.7	5.54 U	19.2	4.34 J Z	5.55 U	5.37 U	3.35 J Z
6020	7440-43-9	Cadmium	mg/kg	0.170 J Z	0.148 J Z	0.148 J Z	0.338 J Z	0.222 J Z	0.146 J Z	0.173 J Z	0.204 J Z
6020	7440-47-3	Chromium	mg/kg	20.3	18.4	16.4 J Q	20.8	11.8 J Q	20.9	21.2	16.7
6020	7440-48-4	Cobalt	mg/kg	5.05	4.08	5.49	7.14	4.81	14.7	6.55	5.05
6020	7440-50-8	Copper	mg/kg	5.98	6.42	6.7	9.71	7.65	6.67	9.17	6.45
6020	7440-62-2	Vanadium	mg/kg	42.6	37.8	34.7	40.3	29.3	39.2	40.4	34.1
6020	7440-66-6	Zinc	mg/kg	41.3	39.4	54.1	83	85.5	43.8	54.7	175
6020	7440-67-7	Zirconium	mg/kg	5.48 U	5.33 U	5.54 UJ Q	5.74 UJ Q	5.17 UJ Q	5.55 U	5.37 U	5.53 U
6020	7440-70-2	Calcium	mg/kg	2290	2020	2870	5310	2670	1900	2860	3110
6020	7723-14-0	Phosphorus	mg/kg	95.7	106	283	352	418	155	463	255 J Q
6020	7782-49-2	Selenium	mg/kg	0.548 U	0.533 U	0.554 U	0.574 U	0.517 U	0.555 U	0.537 U	0.553 U

U - Compound not detected above the reporting limit

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R - Result is rejected

Sample Name				SL-682-SA5C-SB-4.0-5.0	SL-682-SA5C-SB-9.0-10.0	SL-683-SA5C-SB-0.0-0.5	SL-683-SA5C-SB-4.0-5.0	SL-683-SA5C-SB-7.0-8.0	SL-684-SA5C-SB-0.0-0.5	SL-684-SA5C-SB-2.5-3.5	SL-685-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/22/2012	05/22/2012	04/12/2012	06/13/2012	06/13/2012	04/12/2012	06/13/2012	04/12/2012
SDG				12E169	12E169	12D121	12F093	12F093	12D121	12F093	12D121
Start Depth				4	9	0	4	7	0	2.5	0
End Depth				5	10	0.5	5	8	0.5	3.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	16200 J Q	13700 J Q	12300	11600	15000	18200	13900	10300
6020	7439-89-6	Iron	mg/kg	18900	20100	18200 J A	18800 J A	20100 J A	27600 J A	21400 J A	16800 J A
6020	7439-92-1	Lead	mg/kg	5.46	4.75	11.6	4.55	5.93	8.61	7.23	5.77
6020	7439-93-2	Lithium	mg/kg	16.6	13.9	16.4	14.3	14.1	23.6	19.4	18.8
6020	7439-95-4	Magnesium	mg/kg	3730 J Q	3820 J Q	4310	3600	3080	6850	4520	3630
6020	7439-96-5	Manganese	mg/kg	135	91.8	192	164	156	308	150	243
6020	7439-98-7	Molybdenum	mg/kg	0.507 J Z	0.331 J Z	0.462 J Z	0.55	0.911	0.496 J Z	0.358 J Z	0.405 J Z
6020	7440-02-0	Nickel	mg/kg	8.91	6.13	8.33	6.27	7.01	16.2	8.24	7.29
6020	9/7/7440	Potassium	mg/kg	1440	1170	2460	2130	1970	4160	2090	2810
6020	7440-22-4	Silver	mg/kg	0.0763 J Z	0.545 U	0.552 U	0.520 U	0.543 U	0.576 U	0.522 U	0.532 U
6020	7440-23-5	Sodium	mg/kg	313	950	158	136	128	148	226	93.2 J Z
6020	7440-24-6	Strontium	mg/kg	19.6	21.1	23.7	16.8	16.2	51.8	25.2	15.7
6020	7440-28-0	Thallium	mg/kg	0.237 J Z	0.200 J Z	0.248 J Z	0.318 J Z	0.715	0.316 J Z	0.261 J Z	0.240 J Z
6020	7440-31-5	Tin	mg/kg	10.9 U	10.9 U	11.0 U	10.4 U	10.9 U	11.5 U	10.4 U	10.6 U
6020	7440-32-6	Titanium	mg/kg	861	853	955	997	980	739	872	916
6020	7440-36-0	Antimony	mg/kg	0.217 J Z	0.170 J Z	0.429 J Q, E, Z	0.236 J Z	0.281 J Z	0.224 J Q, E, Z	0.229 J Z	0.211 J Q, E, Z
6020	7440-38-2	Arsenic	mg/kg	4.21	5.13	4.16	3.77	6.31	5.63	6.76	3.48
6020	7440-39-3	Barium	mg/kg	109	63.2	99.4	66.1	71.7	119	98.7	84.2
6020	7440-41-7	Beryllium	mg/kg	0.743	0.655	0.482 J Z	0.599	0.697	0.721	0.533	0.429 J Z
6020	7440-42-8	Boron	mg/kg	5.44 U	5.45 U	2.80 J Z	5.20 U	5.43 U	5.98	5.22 U	5.02 J Z
6020	7440-43-9	Cadmium	mg/kg	0.114 J Z	0.0697 J Z	0.269 J Z	0.131 J Z	0.117 J Z	0.295 J Z	0.177 J Z	0.169 J Z
6020	7440-47-3	Chromium	mg/kg	17.2	16.6	15.4 J Q	14.7	15.6	37.5 J Q	19.1	12.1 J Q
6020	7440-48-4	Cobalt	mg/kg	4.3	2.59	4.73	3.57	14.3	8.96	4.25	4.41
6020	7440-50-8	Copper	mg/kg	5.09	5.21	8.36	5.97	6.84	12.9	8.19	6.45
6020	7440-62-2	Vanadium	mg/kg	35.3	30.6	32.6	29.8	36.7	52.9	38.2	27.4
6020	7440-66-6	Zinc	mg/kg	33.7	34.9	76.8	44.3	36.9	72.1	42.7	50.9
6020	7440-67-7	Zirconium	mg/kg	5.44 U	5.45 U	5.52 UJ Q	5.20 U	5.43 U	5.76 UJ Q	5.22 U	5.32 UJ Q
6020	7440-70-2	Calcium	mg/kg	1460	1600	2830	1530 J A	1570 J A	18600	5100 J A	2230
6020	7723-14-0	Phosphorus	mg/kg	82.3 J Q	108 J Q	244	139	149	454	137	296
6020	7782-49-2	Selenium	mg/kg	0.544 U	0.545 U	0.552 U	0.520 U	0.543 U	0.576 U	0.522 U	0.532 U

U - Compound not detected above the reporting limit

J - Result is an estimated value

R - Result is rejected

Sample Name				SL-685-SA5C-SB-4.0-5.0	SL-685-SA5C-SB-7.0-8.0	SL-686-SA5C-SB-0.0-0.5	SL-686-SA5C-SB-4.0-5.0	SL-686-SA5C-SB-9.0-10.0	SL-687-SA5C-SB-0.0-0.5	SL-687-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/13/2012	06/13/2012	04/12/2012	05/17/2012	05/17/2012	04/16/2012	06/12/2012	04/16/2012
SDG				12F093	12F093	12D121	12E134	12E134	12D147	12F074	12D147
Start Depth				4	7	0	4	9	0	4	0
End Depth				5	8	0.5	5	10	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	12000	12200	10300	14900	10800	15600	15800	9990
6020	7439-89-6	Iron	mg/kg	18400 J A	19800 J A	17400 J A	19200	15800	24800 J A	21100	16800 J A
6020	7439-92-1	Lead	mg/kg	6.74	6.53	9.45	6.27	4.43	7.74	5.92	11.8
6020	7439-93-2	Lithium	mg/kg	15.1	17.5	18.7	20.6	12.2	24.6	9.49	17
6020	7439-95-4	Magnesium	mg/kg	3710	4180	3950	4080	3370	6520	3080	4230
6020	7439-96-5	Manganese	mg/kg	181	140	245	210 J A	123 J A	335	87.4	231
6020	7439-98-7	Molybdenum	mg/kg	0.888	0.408 J Z	0.421 J Z	0.683	0.424 J Z	0.347 J Z	0.618	0.334 J Z
6020	7440-02-0	Nickel	mg/kg	7.42	6.68	8.6	9.22	5.68	13.6	4.78	7.54
6020	9/7/7440	Potassium	mg/kg	2050	1640	2930	1480	1500	4560	1120	3310
6020	7440-22-4	Silver	mg/kg	0.514 U	0.558 U	0.554 U	0.0811 J Z	0.541 U	0.581 U	0.535 U	0.526 U
6020	7440-23-5	Sodium	mg/kg	163	272	279	509	353	76.5 J Z	489	129
6020	7440-24-6	Strontium	mg/kg	20.9	21.2	26.4	21.1	10.5	44.8	30	16.4
6020	7440-28-0	Thallium	mg/kg	0.231 J Z	0.227 J Z	0.219 J Z	0.245 J Z	0.219 J Z	0.285 J Z	0.190 J Z	0.236 J Z
6020	7440-31-5	Tin	mg/kg	10.3 U	11.2 U	11.1 U	10.8 U	10.8 U	11.6 U	10.7 U	10.5 U
6020	7440-32-6	Titanium	mg/kg	796	931	866	1020	862	706	648	990
6020	7440-36-0	Antimony	mg/kg	0.269 J Z	0.205 J Z	0.444 J Q, E, Z	0.220 J Z	0.159 J Z	0.372 J Q, E, Z	0.229 J Z	0.500 J Q, E, Z
6020	7440-38-2	Arsenic	mg/kg	5.37	6.9	3.34	4.72	5.1	4.73	5.14	2.85
6020	7440-39-3	Barium	mg/kg	120	63.3	98.2	92.6	53	96.5	71.2	105
6020	7440-41-7	Beryllium	mg/kg	0.556	0.604	0.394 J Z	0.717	0.393 J Z	0.609	0.357 J Z	0.361 J Z
6020	7440-42-8	Boron	mg/kg	5.14 U	5.58 U	5.54 U	5.42 U	5.41 U	5.54 J Z	5.35 U	3.05 J Z
6020	7440-43-9	Cadmium	mg/kg	0.153 J Z	0.144 J Z	0.237 J Z	0.158 J Z	0.120 J Z	0.295 J Z	0.0814 J Z	1.2
6020	7440-47-3	Chromium	mg/kg	15.8	17	12.6 J Q	18.4	11.8	23.3 J Q	16.2	12.5 J Q
6020	7440-48-4	Cobalt	mg/kg	4.25	4.22	5.16	6.1	3.12	7.8	2.72	4.82
6020	7440-50-8	Copper	mg/kg	6.68	7.72	7.41	5.89	5.27	11	6.41	8.54
6020	7440-62-2	Vanadium	mg/kg	31.3	34.1	26.5	36.2	26.6	48.2	32.7	28.3
6020	7440-66-6	Zinc	mg/kg	40.2	41.4	59.3	36.4	33.4	67.8	29.7	507
6020	7440-67-7	Zirconium	mg/kg	5.14 U	5.58 U	5.54 UJ Q	5.42 U	5.41 U	5.81 UJ Q	5.35 U	5.26 UJ Q
6020	7440-70-2	Calcium	mg/kg	2100 J A	1890 J A	3610	1470	1040	19500	2850	3140
6020	7723-14-0	Phosphorus	mg/kg	137	102	407	101	77.3	568	88.6 J Q	445
6020	7782-49-2	Selenium	mg/kg	0.514 U	0.558 U	0.554 U	0.542 U	0.541 U	0.581 U	0.535 U	0.526 U

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

Sample Name				SL-688-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-9.0-10.0	SL-689-SA5C-SB-0.0-0.5	SL-689-SA5C-SB-4.0-5.0	SL-689-SA5C-SB-7.5-8.5	SL-690-SA5C-SB-0.0-0.5	SL-690-SA5C-SB-3.5-4.5	SL-691-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/12/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012	04/16/2012	06/12/2012	04/16/2012
SDG				12F074	12F074	12D147	12F074	12F074	12D147	12F074	12D147
Start Depth				4	9	0	4	7.5	0	3.5	0
End Depth				5	10	0.5	5	8.5	0.5	4.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	15800	7120	15200	12600	10900	16100	13700	11800
6020	7439-89-6	Iron	mg/kg	20800	11400	24500 J A	18600	17100	23800 J A	16200	17400 J A
6020	7439-92-1	Lead	mg/kg	6.73	3.15	7.24	5.46	4.71	13.1	5.07	10.1
6020	7439-93-2	Lithium	mg/kg	15.1	9.46	23.8	17.4	13.3	17.3	9.36	16.6
6020	7439-95-4	Magnesium	mg/kg	3660	2040	6580	3820	3180	5180	2910	3900
6020	7439-96-5	Manganese	mg/kg	193	119	300	241	181	323	66.9	221
6020	7439-98-7	Molybdenum	mg/kg	0.73	0.239 J Z	0.339 J Z	0.531 J Z	0.498 J Z	0.732	0.368 J Z	0.426 J Z
6020	7440-02-0	Nickel	mg/kg	9.03	3.63	13.1	9.24	7.04	13.4	3.6	7.84
6020	9/7/7440	Potassium	mg/kg	1270	1330	4600	2500	1960	3470	1170	2690
6020	7440-22-4	Silver	mg/kg	0.0625 J Z	0.552 U	0.572 U	0.536 U	0.525 U	0.577 U	0.524 U	0.556 U
6020	7440-23-5	Sodium	mg/kg	108 J Z	90.7 J Z	85.3 J Z	151	181	88.5 J Z	1120	80.4 J Z
6020	7440-24-6	Strontium	mg/kg	20.3	8.18	48.2	20.5	20.9	26.3	22.9	17.8
6020	7440-28-0	Thallium	mg/kg	0.201 J Z	0.151 J Z	0.288 J Z	0.232 J Z	0.200 J Z	0.282 J Z	0.167 J Z	0.233 J Z
6020	7440-31-5	Tin	mg/kg	11.1 U	11.0 U	11.4 U	10.7 U	10.5 U	11.5 U	10.5 U	11.5
6020	7440-32-6	Titanium	mg/kg	913	762	651	872	739	876	657	871
6020	7440-36-0	Antimony	mg/kg	0.294 J Z	0.117 J Z	0.487 J Q, E, Z	0.202 J Z	0.196 J Z	0.874 J Q, E	0.135 J Z	1.13 J Q, E
6020	7440-38-2	Arsenic	mg/kg	5.73	3.83	4.71	4.48	3.93	5.46	3.54	3.91
6020	7440-39-3	Barium	mg/kg	109	33.9	96.2	88.7	65.9	116	60.1	81.6
6020	7440-41-7	Beryllium	mg/kg	0.81	0.349 J Z	0.61	0.544	0.447 J Z	0.633	0.329 J Z	0.439 J Z
6020	7440-42-8	Boron	mg/kg	5.56 U	5.52 U	5.16 J Z	2.93 J Z	5.25 U	3.04 J Z	5.24 U	5.56 U
6020	7440-43-9	Cadmium	mg/kg	0.170 J Z	0.151 J Z	0.285 J Z	0.225 J Z	0.170 J Z	0.588	0.0700 J Z	0.221 J Z
6020	7440-47-3	Chromium	mg/kg	18.1	7.86	22.7 J Q	15.7	14.7	20.5 J Q	12.4	13.8 J Q
6020	7440-48-4	Cobalt	mg/kg	6.4	3.06	7.67	5.47	3.9	7.47	1.91	4.53
6020	7440-50-8	Copper	mg/kg	6.28	2.85	11.2	7.63	5.76	11.4	3.51	146
6020	7440-62-2	Vanadium	mg/kg	39.8	18.8	47.2	31.5	28.2	40.9	23.8	27.9
6020	7440-66-6	Zinc	mg/kg	37.8	24.4	65.5	54	38	99.5	32.1	62.5
6020	7440-67-7	Zirconium	mg/kg	5.56 U	5.52 U	5.72 UJ Q	5.36 U	5.25 U	5.77 UJ Q	5.24 U	5.56 UJ Q
6020	7440-70-2	Calcium	mg/kg	2020	748	22700	4360	5990	4720	1770	2750
6020	7723-14-0	Phosphorus	mg/kg	134 J Q	56.8 J Q	572	272 J Q	188 J Q	354	52.7 J Q	354
6020	7782-49-2	Selenium	mg/kg	0.556 U	0.552 U	0.572 U	0.536 U	0.525 U	0.577 U	0.524 U	0.556 U

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

Sample Name				SL-692-SA5C-SB-0.0-0.5	SL-692-SA5C-SB-5.0-6.0	SL-693-SA5C-SB-0.0-0.5	SL-693-SA5C-SB-4.0-5.0	SL-693-SA5C-SB-9.0-10.0	SL-694-SA5C-SB-0.0-0.5	SL-694-SA5C-SB-4.0-5.0	SL-694-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/16/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012	05/24/2012	05/24/2012	05/24/2012
SDG				12D147	12F074	12D147	12F074	12F074	12E204	12E204	12E204
Start Depth				0	5	0	4	9	0	4	9
End Depth				0.5	6	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	17200	12900	17000	11300	12200	24600	16300	18500
6020	7439-89-6	Iron	mg/kg	26900 J A	18000	25100 J A	17100	17800	28800 J A	20500 J A	24500 J A
6020	7439-92-1	Lead	mg/kg	8.02	6.01	7.32	5.07	5.14	7.65	5.2	6.89
6020	7439-93-2	Lithium	mg/kg	27.7	11.8	25.7	17	16.6	24.3	21.4	29.5
6020	7439-95-4	Magnesium	mg/kg	7060	3290	6760	3750	3730	4990	4630	5290
6020	7439-96-5	Manganese	mg/kg	332	129	307	217	227	129 J A	211 J A	280 J A
6020	7439-98-7	Molybdenum	mg/kg	0.330 J Z	0.676	0.324 J Z	0.510 J Z	0.603	0.651	0.517 J Z	0.673
6020	7440-02-0	Nickel	mg/kg	14.1	6.03	13.4	7.99	8.94	11.5	10.3	14.7
6020	9/7/7440	Potassium	mg/kg	4890	2050	4740	2500	2550	1750	1770	3010
6020	7440-22-4	Silver	mg/kg	0.585 U	0.536 U	0.569 U	0.527 U	0.533 U	0.556 U	0.544 U	0.112 J Z
6020	7440-23-5	Sodium	mg/kg	97.1 J Z	177	82.5 J Z	172	166	517	663	437
6020	7440-24-6	Strontium	mg/kg	50.1	19.4	53.4	20.6	23.6	34.6	31.3	29.6
6020	7440-28-0	Thallium	mg/kg	0.312 J Z	0.243 J Z	0.291 J Z	0.217 J Z	0.219 J Z	0.282 J Z	0.260 J Z	0.287 J Z
6020	7440-31-5	Tin	mg/kg	11.7 U	10.7 U	11.4 U	10.5 U	10.7 U	11.1 U	10.9 U	11.5 U
6020	7440-32-6	Titanium	mg/kg	804	694	802	828	811	1090	1070	1020
6020	7440-36-0	Antimony	mg/kg	0.250 J Q, E, Z	0.225 J Z	0.215 J Q, E, Z	0.184 J Z	0.193 J Z	0.308 J Z	0.221 J Z	0.232 J Z
6020	7440-38-2	Arsenic	mg/kg	5.27	5.43	4.96	3.66	4.23	7.27	4.84	6.09
6020	7440-39-3	Barium	mg/kg	101	48.9	97.2	81.4	76.6	136	174	90.5
6020	7440-41-7	Beryllium	mg/kg	0.698	0.479 J Z	0.638	0.484 J Z	0.520 J Z	1.09	0.66	0.792
6020	7440-42-8	Boron	mg/kg	6.36	5.36 U	6.22	5.27 U	2.79 J Z	5.56 U	5.44 U	5.73 U
6020	7440-43-9	Cadmium	mg/kg	0.287 J Z	0.167 J Z	0.283 J Z	0.205 J Z	0.222 J Z	0.147 J Z	0.138 J Z	0.210 J Z
6020	7440-47-3	Chromium	mg/kg	26.0 J Q	15.5	25.6 J Q	14.3	16	25	19.3	23.2
6020	7440-48-4	Cobalt	mg/kg	8.88	3.36	7.98	4.67	4.83	4.45 J A	7.02 J A	6.73 J A
6020	7440-50-8	Copper	mg/kg	11.8	5.47	11.4	7.08	7.75	7.89	7.45	11
6020	7440-62-2	Vanadium	mg/kg	52.9	32.6	51	30	30.4	50.7	36.5	44.6
6020	7440-66-6	Zinc	mg/kg	71.4	30.5	68.2	50	48.5	50.2	42.5	55.7
6020	7440-67-7	Zirconium	mg/kg	5.85 UJ Q	5.36 U	5.69 UJ Q	5.27 U	5.33 U	5.56 U	5.44 U	5.73 U
6020	7440-70-2	Calcium	mg/kg	22700	4040	24300	3610	4260	3120	2610	3220
6020	7723-14-0	Phosphorus	mg/kg	597	132 J Q	574	285 J Q	269 J Q	110	113	224
6020	7782-49-2	Selenium	mg/kg	0.585 U	0.536 U	0.569 U	0.527 U	0.533 U	0.556 U	0.544 U	0.573 U

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

Sample Name				SL-695-SA5C-SB-0.0-0.5	SL-995-SA5C-SB-0.0-0.5	SL-695-SA5C-SB-4.0-5.0	SL-695-SA5C-SB-9.0-10.0	SL-696-SA5C-SB-1.0-2.0	SL-696-SA5C-SB-4.0-5.0	SL-696-SA5C-SB-9.0-10.0	SL-702-SA5C-SB-0.0-0.5
Sample Type				N	FD	N	N	N	N	N	N
Sample Date				04/26/2012	04/26/2012	05/16/2012	05/16/2012	06/18/2012	06/18/2012	06/18/2012	04/26/2012
SDG				12D256	12D256	12E116	12E116	12F120	12F120	12F120	12D256
Start Depth				0	0	4	9	1	4	9	0
End Depth				0.5	0.5	5	10	2	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	15000	13600	13900	14100	20800	18400	13100	12600
6020	7439-89-6	Iron	mg/kg	19200	18300	19800	20700	23200	22000	19200	18100
6020	7439-92-1	Lead	mg/kg	5.72	6.24	5.82	5.43	6.96	5.74	5.26	6.45
6020	7439-93-2	Lithium	mg/kg	16.6	12.7	19.7	19	17.7	19.8	17.9	14.8
6020	7439-95-4	Magnesium	mg/kg	3790	3300	4250	3960	3860	4460	3960	3660
6020	7439-96-5	Manganese	mg/kg	233	219	282 J A	178 J A	143	335	154	275
6020	7439-98-7	Molybdenum	mg/kg	0.461 J Z	0.467 J Z	0.527	0.342 J Z	0.554	0.391 J Z	0.373 J Z	0.523
6020	7440-02-0	Nickel	mg/kg	9.97	8.58	11.5	9.6	9.52	12.9	8.37	10.2
6020	9/7/7440	Potassium	mg/kg	1860	1610	2080	1920	1670	2140	2020	2470
6020	7440-22-4	Silver	mg/kg	0.538 U	0.526 U	0.524 U	0.0699 J Z	0.0591 J Z	0.533 U	0.542 U	0.518 U
6020	7440-23-5	Sodium	mg/kg	181	175	407	527	254	381	369	91.9 J Z
6020	7440-24-6	Strontium	mg/kg	21.1	20.5	28.5	28.9	25.9	30	22.7	19.8
6020	7440-28-0	Thallium	mg/kg	0.263 J Z	0.248 J Z	0.262 J Z	0.245 J Z	0.274 J Z	0.265 J Z	0.235 J Z	0.267 J Z
6020	7440-31-5	Tin	mg/kg	10.8 U	10.5 U	10.5 U	11.4 U	10.6 U	10.7 U	10.8 U	10.4 U
6020	7440-32-6	Titanium	mg/kg	939	836	959	885	852	1020	938	884
6020	7440-36-0	Antimony	mg/kg	0.200 J Q, Z	0.186 J Q, Z	0.196 J Z	0.176 J Z	0.241 J Z	0.201 J Z	0.181 J Z	0.880 J Q
6020	7440-38-2	Arsenic	mg/kg	4.01	4.07	4.37	4.11	5.54	4.81	4.89	3.84
6020	7440-39-3	Barium	mg/kg	105	107	92.6	72	113	121	69.4	109
6020	7440-41-7	Beryllium	mg/kg	0.621	0.617	0.695	0.704	0.816	0.837	0.535 J Z	0.605
6020	7440-42-8	Boron	mg/kg	5.38 U	5.26 U	5.24 U	5.68 U	5.28 U	5.33 U	5.42 U	5.18 U
6020	7440-43-9	Cadmium	mg/kg	0.168 J Z	0.149 J Z	0.169 J Z	0.168 J Z	0.117 J Z	0.201 J Z	0.175 J Z	0.276 J Z
6020	7440-47-3	Chromium	mg/kg	19	18.1	23.1	19.4	20.1	19.5	16.8	17.2
6020	7440-48-4	Cobalt	mg/kg	5.22	5.17	6.11	4.96	4.36	6.35	4.35	5.88
6020	7440-50-8	Copper	mg/kg	7.51	6.58	6.97	7.48	5.26	8.09	8.38	10.1
6020	7440-62-2	Vanadium	mg/kg	36	36.2	33.9	31.7	41.6	36.4	33.5	34
6020	7440-66-6	Zinc	mg/kg	42.8	37.9	44.4	41.7	39	44	41.4	89.5
6020	7440-67-7	Zirconium	mg/kg	5.38 U	5.26 U	5.24 U	5.68 U	5.28 U	5.33 U	5.42 U	5.18 U
6020	7440-70-2	Calcium	mg/kg	2280	2100	2600	2730	2470	2660	2360	2360
6020	7723-14-0	Phosphorus	mg/kg	155	112	168	180	82.7	123	182	212
6020	7782-49-2	Selenium	mg/kg	0.538 U	0.526 U	0.524 U	0.568 U	0.528 U	0.533 U	0.542 U	0.518 U

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

Sample Name				SL-702-SA5C-SB-4.0-5.0	SL-702-SA5C-SB-9.0-10.0	SL-703-SA5C-SB-0.0-0.5	SL-703-SA5C-SB-4.0-5.0	SL-703-SA5C-SB-9.0-10.0	SL-704-SA5C-SB-0.0-0.5	SL-704-SA5C-SB-4.0-5.0	SL-704-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/18/2012	06/18/2012	04/26/2012	06/18/2012	06/18/2012	05/24/2012	05/24/2012	05/24/2012
SDG				12F120	12F120	12D256	12F120	12F120	12E204	12E204	12E204
Start Depth				4	9	0	4	9	0	4	9
End Depth				5	10	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	19300	12300	17600	19300	15100	17700	23800	16600
6020	7439-89-6	Iron	mg/kg	23700	16700	21300	23000	22200	19900 J A	33700 J A	28600 J A
6020	7439-92-1	Lead	mg/kg	7.29	3.77	7.22	6.61	6.52	5.57	12.4	9.27
6020	7439-93-2	Lithium	mg/kg	18.9	15.3	15.6	23.4	19.5	17.9	37.7	36.2
6020	7439-95-4	Magnesium	mg/kg	4290	3310	3790	4340	4020	4050	7280	6500
6020	7439-96-5	Manganese	mg/kg	180	145	192	216	162	164 J A	242 J A	294 J A
6020	7439-98-7	Molybdenum	mg/kg	0.684	0.654	0.478 J Z	0.469 J Z	0.989	0.671	1.05	0.382 J Z
6020	7440-02-0	Nickel	mg/kg	10.2	7.26	9.24	11.4	8.93	9.14	16.2	18.5
6020	9/7/7440	Potassium	mg/kg	1790	1700	1860	2170	1980	1830	2150	2330
6020	7440-22-4	Silver	mg/kg	0.0761 J Z	0.544 U	0.535 U	0.558 U	0.540 U	0.530 U	0.544 U	0.103 J Z
6020	7440-23-5	Sodium	mg/kg	440	294	234	630	360	194	263	164
6020	7440-24-6	Strontium	mg/kg	31.6	18.1	21.4	28.5	27.8	23.3	40.8	28.6
6020	7440-28-0	Thallium	mg/kg	0.286 J Z	0.196 J Z	0.239 J Z	0.273 J Z	0.241 J Z	0.209 J Z	0.345 J Z	0.300 J Z
6020	7440-31-5	Tin	mg/kg	10.8 U	10.9 U	10.7 U	11.2 U	10.8 U	10.6 U	10.9 U	10.9 U
6020	7440-32-6	Titanium	mg/kg	906	800	880	1080	1000	991	1080	914
6020	7440-36-0	Antimony	mg/kg	0.272 J Z	0.144 J Z	0.322 J Q, Z	0.207 J Z	0.214 J Z	0.227 J Z	0.298 J Z	0.264 J Z
6020	7440-38-2	Arsenic	mg/kg	5.75	3.39	4.43	4.71	5.99	4.36	9.98	10.2
6020	7440-39-3	Barium	mg/kg	123	67.1	108	95.2	81.7	106	158	115
6020	7440-41-7	Beryllium	mg/kg	0.912	0.476 J Z	0.627	0.907	0.774	0.586	1.2	0.939
6020	7440-42-8	Boron	mg/kg	5.41 U	5.44 U	5.35 U	5.58 U	5.40 U	5.30 U	5.44 U	5.46 U
6020	7440-43-9	Cadmium	mg/kg	0.159 J Z	0.150 J Z	0.166 J Z	0.235 J Z	0.198 J Z	0.118 J Z	0.173 J Z	0.260 J Z
6020	7440-47-3	Chromium	mg/kg	21	15.5	18.4	20.5	20.6	18.5	29.3	25
6020	7440-48-4	Cobalt	mg/kg	10.7	3.17	4.87	5.64	4.72	4.76 J A	8.88 J A	8.09 J A
6020	7440-50-8	Copper	mg/kg	7.57	5.79	7.77	6.94	9.74	7.82	16.5	16.6
6020	7440-62-2	Vanadium	mg/kg	43.2	24.3	38.1	38.9	41.4	38.1	53	40.4
6020	7440-66-6	Zinc	mg/kg	40.7	40.1	75.9	46.9	44.7	39.2	78.3	77.5
6020	7440-67-7	Zirconium	mg/kg	5.41 U	5.44 U	5.35 U	5.58 U	5.40 U	5.30 U	5.44 U	5.46 U
6020	7440-70-2	Calcium	mg/kg	3880	2190	2500	2550	3010	2530	4640	5830
6020	7723-14-0	Phosphorus	mg/kg	97.9	159	215	176	206	172	208	638
6020	7782-49-2	Selenium	mg/kg	0.541 U	0.544 U	0.535 U	0.558 U	0.540 U	0.530 U	0.544 U	0.546 U

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

Sample Name				SL-705-SA5C-SB-0.0-0.5	SL-705-SA5C-SB-4.0-5.0	SL-705-SA5C-SB-9.0-10.0	SL-706-SA5C-SB-0.0-0.5	SL-706-SA5C-SB-4.0-5.0	SL-706-SA5C-SB-9.0-10.0	SL-707-SA5C-SB-13.0-14.0	SL-709-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/24/2012	05/24/2012	05/24/2012	05/29/2012	05/29/2012	05/29/2012	06/14/2012	06/14/2012
SDG				12E204	12E204	12E204	12E229	12E229	12E229	12F102	12F102
Start Depth				0	4	9	0	4	9	13	4
End Depth				0.5	5	10	0.5	5	10	14	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	20800	20000	20000	11100	17400	14300	9190	16300
6020	7439-89-6	Iron	mg/kg	19900 J A	21400 J A	23600 J A	17400	21500	18700	19200	21500
6020	7439-92-1	Lead	mg/kg	5.79	5.38	6.08	7	6.74	4.8	3.4	6.82
6020	7439-93-2	Lithium	mg/kg	17.3	24.4	30	15.9	18.1	17.1	29.7	17.6
6020	7439-95-4	Magnesium	mg/kg	3450	5270	5080	4180	4830	4170	4650	3990
6020	7439-96-5	Manganese	mg/kg	150 J A	179 J A	163 J A	261	172	136	612	301
6020	7439-98-7	Molybdenum	mg/kg	0.971	0.63	0.661	0.66	0.66	0.7	0.437 J Z	0.585
6020	7440-02-0	Nickel	mg/kg	8.95	11.5	11.7	10.6	9.17	8.42	15	10.2
6020	9/7/7440	Potassium	mg/kg	1310	1940	1500	2250	1750	1650	2200	1620
6020	7440-22-4	Silver	mg/kg	0.0642 J Z	0.537 U	0.0756 J Z	0.518 U	0.522 U	0.548 U	0.545 U	0.560 U
6020	7440-23-5	Sodium	mg/kg	270	469	480	226	526	375	152	123
6020	7440-24-6	Strontium	mg/kg	21.1	28	28	33.2	31.6	24.8	14.4	24.4
6020	7440-28-0	Thallium	mg/kg	0.210 J Z	0.256 J Z	0.251 J Z	0.201 J Z	0.311 J Z	0.228 J Z	0.242 J Z	0.252 J Z
6020	7440-31-5	Tin	mg/kg	10.9 U	10.7 U	11.0 U	10.4 U	10.4 U	11.0 U	10.9 U	11.2 U
6020	7440-32-6	Titanium	mg/kg	998	1140	913	759	1040	958	1080	950
6020	7440-36-0	Antimony	mg/kg	0.260 J Z	0.224 J Z	0.253 J Z	0.430 J Z	0.241 J Z	0.206 J Z	0.255 J Z	0.175 J Z
6020	7440-38-2	Arsenic	mg/kg	4.86	5.18	5.62	4.49	4.52	5.36	5.04	4.84
6020	7440-39-3	Barium	mg/kg	89.7	96.2	88	102	135	86.7	88.3	111
6020	7440-41-7	Beryllium	mg/kg	0.779	1.1	0.799	0.493 J Z	0.761	0.676	0.377 J Z	0.786
6020	7440-42-8	Boron	mg/kg	5.45 U	5.37 U	5.49 U	4.81 J Z	5.22 U	5.48 U	5.45 U	5.60 U
6020	7440-43-9	Cadmium	mg/kg	0.117 J Z	0.173 J Z	0.129 J Z	0.239 J Z	0.120 J Z	0.117 J Z	0.232 J Z	0.166 J Z
6020	7440-47-3	Chromium	mg/kg	18.7	20.3	24.7	16.1	20.1	16.3	18.6	19.9
6020	7440-48-4	Cobalt	mg/kg	7.38 J A	11.7 J A	5.56 J A	5.66	5.91	4.58	5.69	7.58
6020	7440-50-8	Copper	mg/kg	5.67	6.88	9.36	10.9	6.98	6.5	8.01	6.55
6020	7440-62-2	Vanadium	mg/kg	38.9	37.8	41.2	33.5	40.2	34.6	33.7	38.9
6020	7440-66-6	Zinc	mg/kg	31.8	44.9	44	57.6	40.6	40.5	51.3	39.6
6020	7440-67-7	Zirconium	mg/kg	5.45 U	5.37 U	2.93 J Z	5.18 U	5.22 U	5.48 U	5.45 U	5.60 U
6020	7440-70-2	Calcium	mg/kg	1850	3000	3090	6280	3080	2650	3120	2400
6020	7723-14-0	Phosphorus	mg/kg	137	134	138	422	85.3	135	423	109
6020	7782-49-2	Selenium	mg/kg	0.545 U	0.537 U	0.549 U	0.518 U	0.522 U	0.548 U	0.545 U	0.560 U

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

Sample Name				SL-709-SA5C-SB-9.0-10.0	SL-711-SA5C-SB-0.0-0.5	SL-711-SA5C-SB-4.0-5.0	SL-711-SA5C-SB-9.0-10.0	SL-712-SA5C-SB-0.0-0.5	SL-712-SA5C-SB-4.0-5.0	SL-712-SA5C-SB-9.0-10.0	SL-713-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/14/2012	04/26/2012	06/14/2012	06/14/2012	04/30/2012	06/14/2012	06/14/2012	04/30/2012
SDG				12F102	12D256	12F102	12F102	12D275	12F102	12F102	12D275
Start Depth				9	0	4	9	0	4	9	0
End Depth				10	0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	14000	8900	16100	11400	11600 J Q	19700	9500	14300 J Q
6020	7439-89-6	Iron	mg/kg	19300	14000	20300	19900	18400 J Q	24500	15900	21300 J Q
6020	7439-92-1	Lead	mg/kg	5.6	4.88	6.47	4.49	4.79	7.49	4.55	6.92
6020	7439-93-2	Lithium	mg/kg	17.2	13.2	16.8	24	20.9	30.3	23.9	26.7
6020	7439-95-4	Magnesium	mg/kg	3430	3100	3960	4850	4250	5080	4030	4650
6020	7439-96-5	Manganese	mg/kg	237	202	200	226	254	240	197	363
6020	7439-98-7	Molybdenum	mg/kg	0.832	0.683	0.634	0.445 J Z	0.313 J Z	0.351 J Z	0.261 J Z	0.436 J Z
6020	7440-02-0	Nickel	mg/kg	9.57	10.1	9.66	12.5	7.61	13.7	9.79	11.2
6020	9/7/7440	Potassium	mg/kg	2050	1780	1600	1790	3050	1790	2000	3270
6020	7440-22-4	Silver	mg/kg	0.562 U	0.523 U	0.540 U	0.521 U	0.508 U	0.0812 J Z	0.0648 J Z	0.533 U
6020	7440-23-5	Sodium	mg/kg	165	82.9 J Z	113	95.3 J Z	95.5 J Z	273	138	112
6020	7440-24-6	Strontium	mg/kg	22.5	22.9	26.8	24.3	16.7	36.6	14.2	19.4
6020	7440-28-0	Thallium	mg/kg	0.209 J Z	0.164 J Z	0.200 J Z	0.262 J Z	0.225 J Z	0.262 J Z	0.223 J Z	0.279 J Z
6020	7440-31-5	Tin	mg/kg	11.2 U	10.5 U	10.8 U	10.4 U	10.2 U	11.0 U	11.1 U	10.7 U
6020	7440-32-6	Titanium	mg/kg	890	642	784	881	1060	856	873	1120
6020	7440-36-0	Antimony	mg/kg	0.79	0.214 J Q, Z	0.246 J Z	0.281 J Z	1.44	0.341 J Z	1.14	0.418 J Z
6020	7440-38-2	Arsenic	mg/kg	3.4	3.59	4.85	7.04	2.94	5.51	3.16	4.07
6020	7440-39-3	Barium	mg/kg	92.1	72	103	82.1	87	144	60.8	115
6020	7440-41-7	Beryllium	mg/kg	0.633	0.376 J Z	0.722	0.447 J Z	0.380 J Z	0.858	0.520 J Z	0.558
6020	7440-42-8	Boron	mg/kg	5.62 U	5.23 U	5.40 U	5.21 U	5.08 U	5.49 U	5.54 U	5.33 U
6020	7440-43-9	Cadmium	mg/kg	0.205 J Z	0.221 J Z	0.183 J Z	0.185 J Z	0.415 J Z	0.228 J Z	0.153 J Z	0.627
6020	7440-47-3	Chromium	mg/kg	16.9	16	18.8	22.9	12.8	23.6	14.9	17.6
6020	7440-48-4	Cobalt	mg/kg	5.18	4.66	5.78	5.9	4.74	6.78	4.44	6.12
6020	7440-50-8	Copper	mg/kg	7.86	7.77	7.26	9.32	7.18	9.41	7.6	9.67
6020	7440-62-2	Vanadium	mg/kg	31.5	26.5	35.6	39.2	28.6	42.2	24.6	33.1
6020	7440-66-6	Zinc	mg/kg	57.4	46.2	41.5	53.9	101	49.1	44.9	131
6020	7440-67-7	Zirconium	mg/kg	5.62 U	5.23 U	5.40 U	5.21 U	5.08 U	5.49 U	5.54 U	5.33 U
6020	7440-70-2	Calcium	mg/kg	2640	5210	4090	3550	2860	5560	3000	3280
6020	7723-14-0	Phosphorus	mg/kg	167	353	176	367	343	106	319	324
6020	7782-49-2	Selenium	mg/kg	0.562 U	0.272 J Z	0.540 U	0.521 U	0.508 U	0.549 U	0.554 U	0.533 U

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

Sample Name				SL-713-SA5C-SB-6.0-7.0	SL-715-SA5C-SB-0.0-0.5	SL-715-SA5C-SB-6.0-7.0	SL-716-SA5C-SB-0.0-0.5	SL-716-SA5C-SB-5.5-6.5	SL-717-SA5C-SB-0.0-0.5	SL-717-SA5C-SB-6.0-7.0	SL-718-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/14/2012	04/30/2012	06/14/2012	05/02/2012	06/13/2012	05/02/2012	06/13/2012	05/02/2012
SDG				12F102	12D275	12F102	12E018	12F102	12E018	12F093	12E018
Start Depth				6	0	6	0	5.5	0	6	0
End Depth				7	0.5	7	0.5	6.5	0.5	7	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	10600	15100 J Q	11500	11700 J Q	11500	4220 J Q	15000	7130 J Q
6020	7439-89-6	Iron	mg/kg	19100	21400 J Q	19800	20100 J Q	19300	6100 J Q	27900 J A	10600 J Q
6020	7439-92-1	Lead	mg/kg	4.25	7.26	4.92	7.3	7.3	1.35	10.3	2.88
6020	7439-93-2	Lithium	mg/kg	27.7	24.3	25.8	25.3	23.7	2.39	42.8	7.56
6020	7439-95-4	Magnesium	mg/kg	4790	4690	4810	4710	4400	1190	7000	2470
6020	7439-96-5	Manganese	mg/kg	248	304	258	238	394	94	317	153
6020	7439-98-7	Molybdenum	mg/kg	0.538	0.505 J Z	0.556	0.695	0.734	0.893	0.483 J Z	0.793
6020	7440-02-0	Nickel	mg/kg	9.54	11.7	11.1	12.9	10.3	7.42	19.1	8.52
6020	9/7/7440	Potassium	mg/kg	1890	3030	2030	2110	1950	555	2120	1260
6020	7440-22-4	Silver	mg/kg	0.536 U	0.526 U	0.517 U	0.526 U	0.522 U	0.518 U	0.532 U	0.511 U
6020	7440-23-5	Sodium	mg/kg	129	94.9 J Z	116	84.1 J Z	110	73.2 J Z	154	77.7 J Z
6020	7440-24-6	Strontium	mg/kg	19.2	20.6	20.2	27.5	22.9	22.5	32.1	27.2
6020	7440-28-0	Thallium	mg/kg	0.215 J Z	0.272 J Z	0.214 J Z	0.204 J Z	0.224 J Z	0.415 U	0.316 J Z	0.100 J Z
6020	7440-31-5	Tin	mg/kg	10.7 U	10.5 U	10.3 U	10.5 U	10.4 U	10.4 U	10.6 U	10.2 U
6020	7440-32-6	Titanium	mg/kg	999	1110	897	722	914	217	1110	494
6020	7440-36-0	Antimony	mg/kg	0.172 J Z	0.356 J Z	0.167 J Z	0.200 J Z	0.291 J Z	0.119 J Z	0.327 J Z	0.176 J Z
6020	7440-38-2	Arsenic	mg/kg	3.73	5.65	4.12	4.97	4.58	2.36	9.54	2.79
6020	7440-39-3	Barium	mg/kg	89.1	104	88.7	89.2	103	23.4	136	57
6020	7440-41-7	Beryllium	mg/kg	0.435 J Z	0.55	0.490 J Z	0.507 J Z	0.475 J Z	0.114 J Z	0.838	0.215 J Z
6020	7440-42-8	Boron	mg/kg	5.36 U	5.26 U	5.17 U	3.39 J Z	3.40 J Z	5.18 U	5.32 U	5.11 U
6020	7440-43-9	Cadmium	mg/kg	0.187 J Z	0.251 J Z	0.215 J Z	0.232 J Z	0.236 J Z	0.155 J Z	0.257 J Z	0.196 J Z
6020	7440-47-3	Chromium	mg/kg	15.9	19.7	18.7	20.1	18.4	14.8	27.6	14.2
6020	7440-48-4	Cobalt	mg/kg	5.07	6.19	5.27	5.42	5.16	2.31	10.8	3.49
6020	7440-50-8	Copper	mg/kg	7.36	10.6	8.16	11.6	11.1	3.07	20.4	6.02
6020	7440-62-2	Vanadium	mg/kg	30.3	36.2	34	33.9	32.6	13.8	46.7	21.8
6020	7440-66-6	Zinc	mg/kg	56.2	70.3	54.8	58.9	111	13.1	83	29.3
6020	7440-67-7	Zirconium	mg/kg	5.36 U	5.26 U	5.17 U	5.26 U	5.22 U	2.72 J Z	5.32 U	5.11 U
6020	7440-70-2	Calcium	mg/kg	3050	3480	3320	5740	6260	8180	5350 J A	5560
6020	7723-14-0	Phosphorus	mg/kg	334	317	316	500	307	662	589	398
6020	7782-49-2	Selenium	mg/kg	0.536 U	0.526 U	0.517 U	0.276 J Z	0.262 J Z	0.518 U	0.532 U	0.343 J Z

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

Sample Name				SL-718-SA5C-SB-4.0-5.0	SL-718-SA5C-SB-8.0-9.0	SL-719-SA5C-SB-0.0-0.5	SL-719-SA5C-SB-6.0-7.0	SL-720-SA5C-SB-0.0-0.5	SL-720-SA5C-SB-4.5-5.5	SL-1022-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	FD	N
Sample Date				06/13/2012	06/13/2012	05/02/2012	06/14/2012	04/30/2012	06/13/2012	05/01/2012	05/01/2012
SDG				12F093	12F093	12E018	12F102	12D275	12F093	12E004	12E004
Start Depth				4	8	0	6	0	4.5	0	0
End Depth				5	9	0.5	7	0.5	5.5	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	5480	12900	11700 J Q	9270	16800 J Q	15100	5160 J Q	5270 J Q
6020	7439-89-6	Iron	mg/kg	10200 J A	23200 J A	18500 J Q	18400	23000 J Q	28900 J A	7550 J Q	7400 J Q
6020	7439-92-1	Lead	mg/kg	2.61	7.55	5.96	3.4	8.83	8.73	1.49	1.54
6020	7439-93-2	Lithium	mg/kg	6.59	30.3	19.2	26.1	27.1	41.7	2.96	2.88
6020	7439-95-4	Magnesium	mg/kg	2070	5320	3990	4340	5310	6610	1600	1590
6020	7439-96-5	Manganese	mg/kg	139	343	260	305	335	505	107	108
6020	7439-98-7	Molybdenum	mg/kg	2.76	0.942	0.608	0.328 J Z	0.615	0.469 J Z	0.954	0.845
6020	7440-02-0	Nickel	mg/kg	8.36	14.3	11.1	9.2	14.7	28.4	8.89	7.83
6020	9/7/7440	Potassium	mg/kg	1270	2420	2610	2030	2630	2190	721	652
6020	7440-22-4	Silver	mg/kg	0.390 J Z	0.541 U	0.506 U	0.515 U	0.533 U	0.107 J Z	0.524 U	0.522 U
6020	7440-23-5	Sodium	mg/kg	91.1 J Z	179	77.0 J Z	185	98.0 J Z	191	66.7 J Z	67.1 J Z
6020	7440-24-6	Strontium	mg/kg	26.7	24.3	21.1	18.8	26.8	33	32.5	30.1
6020	7440-28-0	Thallium	mg/kg	0.0843 J Z	0.259 J Z	0.220 J Z	0.237 J Z	0.270 J Z	0.367 J Z	0.419 U	0.418 U
6020	7440-31-5	Tin	mg/kg	9.97 U	10.8 U	10.1 U	10.3 U	10.7 U	11.2 U	10.5 U	10.4 U
6020	7440-32-6	Titanium	mg/kg	371	946	850	1030	1070	1050	270	274
6020	7440-36-0	Antimony	mg/kg	0.178 J Z	0.231 J Z	0.243 J Z	0.203 J Z	0.220 J Z	0.375 J Z	0.129 J Z	0.141 J Z
6020	7440-38-2	Arsenic	mg/kg	2.83	6.31	4.68	4.69	5	10.2	2.36	2.41
6020	7440-39-3	Barium	mg/kg	56	99.3	88.5	75.4	124	141	40.3	38.5
6020	7440-41-7	Beryllium	mg/kg	0.212 J Z	0.633	0.429 J Z	0.374 J Z	0.641	1.06	0.138 J Z	0.136 J Z
6020	7440-42-8	Boron	mg/kg	4.98 U	5.41 U	5.06 U	5.15 U	3.21 J Z	5.59 U	5.24 U	5.22 U
6020	7440-43-9	Cadmium	mg/kg	0.206 J Z	0.285 J Z	0.356 J Z	0.189 J Z	0.295 J Z	0.441 J Z	0.188 J Z	0.173 J Z
6020	7440-47-3	Chromium	mg/kg	16.9	23	18.8	15.1	23.1	26.6	15	13.8
6020	7440-48-4	Cobalt	mg/kg	3.19	7.52	5.24	5.05	6.98	9.6	2.66	2.55
6020	7440-50-8	Copper	mg/kg	6.01	14.5	8.65	7.32	13.3	18.7	3.96	3.82
6020	7440-62-2	Vanadium	mg/kg	19.3	38.7	30.6	31.1	39.4	45	16.5	16.8
6020	7440-66-6	Zinc	mg/kg	29.3	66.6	57.4	52.7	69.1	76.6	15	14.1
6020	7440-67-7	Zirconium	mg/kg	4.98 U	5.41 U	5.06 U	5.15 U	5.33 U	5.59 U	3.01 J Z	3.08 J Z
6020	7440-70-2	Calcium	mg/kg	7250 J A	5220 J A	3870	2960	4370	7300 J A	4580	5390
6020	7723-14-0	Phosphorus	mg/kg	404	488	348	370	325	665	409	386
6020	7782-49-2	Selenium	mg/kg	0.681	0.541 U	0.272 J Z	0.515 U	0.533 U	0.559 U	0.337 J Z	0.387 J Z

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

Sample Name				SL-722-SA5C-SB-6.0-7.0	SL-723-SA5C-SB-0.0-0.5	SL-723-SA5C-SB-4.0-5.0	SL-723-SA5C-SB-9.0-10.0	SL-724-SA5C-SB-0.0-0.5	SL-724-SA5C-SB-4.0-5.0	SL-724-SA5C-SB-9.0-10.0	SL-727-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/13/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012	05/21/2012
SDG				12F093	12E229	12E229	12E229	12E229	12E229	12E229	12E155
Start Depth				6	0	4	9	0	4	9	0
End Depth				7	0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	11100	10900	18900	16300	12900	19800	19700	15800
6020	7439-89-6	Iron	mg/kg	20100 J A	17400	24200	29500	18100	22900	28700	21600
6020	7439-92-1	Lead	mg/kg	5.47	6.58	9.91	11.1	5.73	6.56	10.5	6.28
6020	7439-93-2	Lithium	mg/kg	26.2	14.1	20.2	38.6	12.1	21.5	45.5	20.4
6020	7439-95-4	Magnesium	mg/kg	4330	4140	5130	7660	3830	5580	8660	4260
6020	7439-96-5	Manganese	mg/kg	266	283	489	351	316	168	308	228 J E
6020	7439-98-7	Molybdenum	mg/kg	0.415 J Z	0.558	0.526 J Z	0.528	0.652	0.297 J Z	0.434 J Z	0.651
6020	7440-02-0	Nickel	mg/kg	11	9.26	12.7	19.8	11.3	11.7	22.4	9.55
6020	9/7/7440	Potassium	mg/kg	2130	2840	1860	2290	2520	1790	2640	1970
6020	7440-22-4	Silver	mg/kg	0.540 U	0.523 U	0.0654 J Z	0.0648 J Z	0.570 U	0.0541 J Z	0.116 J Z	0.522 U
6020	7440-23-5	Sodium	mg/kg	90.2 J Z	159	224	260	99.2 J Z	441	337	118
6020	7440-24-6	Strontium	mg/kg	16.4	21	28.4	30	21.5	31.6	33.7	21.2
6020	7440-28-0	Thallium	mg/kg	0.217 J Z	0.218 J Z	0.270 J Z	0.324 J Z	0.284 J Z	0.301 J Z	0.320 J Z	0.250 J Z
6020	7440-31-5	Tin	mg/kg	10.8 U	10.5 U	11.1 U	10.1 U	11.4 U	10.8 U	11.1 U	10.4 U
6020	7440-32-6	Titanium	mg/kg	880	840	902	964	850	911	939	929
6020	7440-36-0	Antimony	mg/kg	0.172 J Z	0.402 J Z	0.221 J Z	0.325 J Z	0.192 J Z	0.214 J Z	0.262 J Z	0.252 J Z
6020	7440-38-2	Arsenic	mg/kg	4.38	3.75	5.9	8.39	3.93	4.83	6.74	5.17
6020	7440-39-3	Barium	mg/kg	83.6	106	147	124	130	141	138	99.9
6020	7440-41-7	Beryllium	mg/kg	0.510 J Z	0.445 J Z	0.895	0.959	0.615	0.753	1.02	0.738
6020	7440-42-8	Boron	mg/kg	5.40 U	5.23 U	5.53 U	5.05 U	5.70 U	5.40 U	5.56 U	5.22 U
6020	7440-43-9	Cadmium	mg/kg	0.229 J Z	0.197 J Z	0.134 J Z	0.237 J Z	0.230 J Z	0.128 J Z	0.233 J Z	0.188 J Z
6020	7440-47-3	Chromium	mg/kg	18	14.3	23.2	26.1	17.2	22.9	33	17.7
6020	7440-48-4	Cobalt	mg/kg	5.68	5.66	8.74	8.41	6.36	5.82	8.48	5.34
6020	7440-50-8	Copper	mg/kg	9.55	10.1	8.63	19.6	10.3	8.86	20.9	6.87
6020	7440-62-2	Vanadium	mg/kg	31.8	31.9	45.8	45.7	34.3	41.2	48.2	37.1
6020	7440-66-6	Zinc	mg/kg	58.7	50.2	46.4	83.6	41.8	49.8	86.4	45.6
6020	7440-67-7	Zirconium	mg/kg	5.40 U	5.23 U	5.53 U	5.05 U	5.70 U	5.40 U	5.56 U	5.22 UJ Q
6020	7440-70-2	Calcium	mg/kg	3300 J A	3930	2810	5010	1870	3770	5730	3720
6020	7723-14-0	Phosphorus	mg/kg	320	421	135	638	156	90.1	681	240
6020	7782-49-2	Selenium	mg/kg	0.540 U	0.523 U	0.553 U	0.505 U	0.570 U	0.540 U	0.556 U	0.522 U

U - Compound not detected above the reporting limit

J - Result is an estimated value

R - Result is rejected

Sample Name				SL-1027-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-9.0-10.0	SL-730-SA5C-SB-0.0-0.5	SL-730-SA5C-SB-4.0-5.0	SL-730-SA5C-SB-9.0-10.0	SL-731-SA5C-SB-0.0-0.5	SL-731-SA5C-SB-4.0-5.0
Sample Type				FD	N	N	N	N	N	N	N
Sample Date				05/21/2012	05/21/2012	05/21/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012
SDG				12E155	12E155	12E155	12E169	12E169	12E169	12E169	12E169
Start Depth				4	4	9	0	4	9	0	4
End Depth				5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	9810	10800	13000	10600 J Q	11000 J Q	17200 J Q	14200 J Q	10600 J Q
6020	7439-89-6	Iron	mg/kg	15000	16100	17500	15700	18000	22200	19500	17200
6020	7439-92-1	Lead	mg/kg	4.21	4.67	4.8	4.56	4.73	5.47	5.19	4.63
6020	7439-93-2	Lithium	mg/kg	10	10.9	15.1	14.8	14.5	24.3	18.7	13.9
6020	7439-95-4	Magnesium	mg/kg	2620	2920	3830	3260 J Q	3560 J Q	4710 J Q	4360 J Q	3470 J Q
6020	7439-96-5	Manganese	mg/kg	363 J E	340 J E	137 J E	168	313	147	245	284
6020	7439-98-7	Molybdenum	mg/kg	0.74	0.844	0.741	0.491 J Z	0.637	0.594	0.659	0.76
6020	7440-02-0	Nickel	mg/kg	9.12	9.83	8.95	7.55	9.73	11.2	9.6	9.93
6020	9/7/7440	Potassium	mg/kg	2470	2490	1190	1990	3020	1640	2680	3500
6020	7440-22-4	Silver	mg/kg	0.558 U	0.552 U	0.541 U	0.536 U	0.548 U	0.563 U	0.534 U	0.531 U
6020	7440-23-5	Sodium	mg/kg	89.3 J Z	102 J Z	746	80.8 J Z	130	193	107	82.4 J Z
6020	7440-24-6	Strontium	mg/kg	15.4	17.2	20.3	13.9	19.9	24.9	19.4	18
6020	7440-28-0	Thallium	mg/kg	0.238 J Z	0.268 J Z	0.204 J Z	0.219 J Z	0.254 J Z	0.254 J Z	0.245 J Z	0.257 J Z
6020	7440-31-5	Tin	mg/kg	11.2 U	11.0 U	10.8 U	10.7 U	11.0 U	11.3 U	10.7 U	10.6 U
6020	7440-32-6	Titanium	mg/kg	762	791	871	804	830	863	1040	840
6020	7440-36-0	Antimony	mg/kg	0.196 J Z	0.219 J Z	0.187 J Z	0.187 J Z	0.202 J Z	0.262 J Z	0.214 J Z	0.194 J Z
6020	7440-38-2	Arsenic	mg/kg	2.84	3.24	3.14	3.25	3.36	4.5	3.95	2.95
6020	7440-39-3	Barium	mg/kg	105	111	100	71.9	110	120	102	115
6020	7440-41-7	Beryllium	mg/kg	0.493 J Z	0.563	0.565	0.512 J Z	0.557	0.791	0.629	0.499 J Z
6020	7440-42-8	Boron	mg/kg	5.58 U	5.52 U	5.41 U	5.36 U	5.48 U	5.63 U	6.03	8.04
6020	7440-43-9	Cadmium	mg/kg	0.235 J Z	0.249 J Z	0.147 J Z	0.165 J Z	0.209 J Z	0.118 J Z	0.172 J Z	0.275 J Z
6020	7440-47-3	Chromium	mg/kg	14	15.1	16.6	12.9	15.6	19.7	17.6	15.9
6020	7440-48-4	Cobalt	mg/kg	5.96	5.76	4.03	4.43	5.39	5.05	5.59	5.3
6020	7440-50-8	Copper	mg/kg	8.16	9.03	5.52	6.25	9.78	8.26	7.69	10.6
6020	7440-62-2	Vanadium	mg/kg	26.8	29.1	31.9	27.2	30	37	36.3	28.5
6020	7440-66-6	Zinc	mg/kg	33.8	36.9	34.3	37.3	47.1	47.8	53.3	51.6
6020	7440-67-7	Zirconium	mg/kg	5.58 UJ Q	5.52 UJ Q	5.41 UJ Q	5.36 U	5.48 U	5.63 U	5.34 U	5.31 U
6020	7440-70-2	Calcium	mg/kg	1380	1520	1620	1770	1810	2540	2250	1900
6020	7723-14-0	Phosphorus	mg/kg	140	161	98.2	219 J Q	463 J Q	171 J Q	262 J Q	412 J Q
6020	7782-49-2	Selenium	mg/kg	0.558 U	0.552 U	0.541 U	0.536 U	0.548 U	0.563 U	0.534 U	0.531 U

U - Compound not detected above the reporting limit  
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R - Result is rejected

Sample Name				SL-731-SA5C-SB-9.0-10.0	SL-732-SA5C-SB-5.0-6.0	SL-732-SA5C-SB-10.5-11.5	SL-733-SA5C-SB-0.0-0.5	SL-733-SA5C-SB-4.0-5.0	SL-733-SA5C-SB-9.0-10.0	SL-734-SA5C-SB-0.0-0.5	SL-734-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/21/2012	05/21/2012
SDG				12E169	12E169	12E169	12E169	12E169	12E169	12E155	12E155
Start Depth				9	5	10.5	0	4	9	0	4
End Depth				10	6	11.5	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	15100 J Q	12500 J Q	9950 J Q	12000 J Q	13000 J Q	11500 J Q	15100	10600
6020	7439-89-6	Iron	mg/kg	21900	18000	19200	19500	18000	20600	20400	16800
6020	7439-92-1	Lead	mg/kg	4.04	4.83	2.52	5.16	4.89	3.59	6.54	4.91
6020	7439-93-2	Lithium	mg/kg	24.7	15.7	20.3	18.8	16.1	20.4	20.4	11.6
6020	7439-95-4	Magnesium	mg/kg	5820 J Q	3720 J Q	4950 J Q	4220 J Q	3680 J Q	4690 J Q	4120	3110
6020	7439-96-5	Manganese	mg/kg	224	263	208	215	297	210	217 J E	367 J E
6020	7439-98-7	Molybdenum	mg/kg	0.518 J Z	0.542	0.297 J Z	0.594	0.554	0.430 J Z	0.543	0.847
6020	7440-02-0	Nickel	mg/kg	11.7	10.1	9.43	9.84	10.3	8.54	8.98	9.96
6020	9/7/7440	Potassium	mg/kg	2210	2950	2990	2500	2030	2330	2500	2430
6020	7440-22-4	Silver	mg/kg	0.530 U	0.539 U	0.520 U	0.519 U	0.0570 J Z	0.551 U	0.542 U	0.558 U
6020	7440-23-5	Sodium	mg/kg	143	89.5 J Z	104	83.0 J Z	95.2 J Z	105 J Z	99.0 J Z	127
6020	7440-24-6	Strontium	mg/kg	22.4	18.1	18.9	17.9	18.5	22.5	18.2	19.1
6020	7440-28-0	Thallium	mg/kg	0.246 J Z	0.252 J Z	0.251 J Z	0.246 J Z	0.248 J Z	0.251 J Z	0.250 J Z	0.261 J Z
6020	7440-31-5	Tin	mg/kg	10.6 U	10.8 U	10.4 U	10.4 U	10.3 U	11.0 U	10.8 U	11.2 U
6020	7440-32-6	Titanium	mg/kg	1250	924	1270	909	908	1180	1030	781
6020	7440-36-0	Antimony	mg/kg	0.231 J Z	0.178 J Z	0.178 J Z	0.221 J Z	0.200 J Z	0.163 J Z	0.251 J Z	0.190 J Z
6020	7440-38-2	Arsenic	mg/kg	3.55	3.35	3.16	4.65	3.94	3.04	4.82	3.56
6020	7440-39-3	Barium	mg/kg	125	105	80.6	102	93.8	92.2	90.8	120
6020	7440-41-7	Beryllium	mg/kg	0.62	0.584	0.441 J Z	0.563	0.609	0.592	0.613	0.56
6020	7440-42-8	Boron	mg/kg	5.30 U	5.39 U	5.20 U	5.19 U	5.15 U	5.51 U	5.42 U	5.58 U
6020	7440-43-9	Cadmium	mg/kg	0.126 J Z	0.164 J Z	0.0906 J Z	0.163 J Z	0.109 J Z	0.0848 J Z	0.188 J Z	0.253 J Z
6020	7440-47-3	Chromium	mg/kg	18.6	15.4	14.1	16.3	16.1	16.5	17.4	15
6020	7440-48-4	Cobalt	mg/kg	5.86	5.78	4.82	5.67	5.31	6.19	4.87	6.29
6020	7440-50-8	Copper	mg/kg	7.12	7.38	6.01	7.55	6.1	5.77	6.94	9.07
6020	7440-62-2	Vanadium	mg/kg	34.9	30.7	31.2	33.1	31.9	31.5	35.5	29.9
6020	7440-66-6	Zinc	mg/kg	60.1	45.5	52	46	40	45	47.5	38.5
6020	7440-67-7	Zirconium	mg/kg	5.30 U	5.39 U	5.20 U	5.19 U	5.15 U	5.51 U	5.42 UJ Q	5.58 UJ Q
6020	7440-70-2	Calcium	mg/kg	2860	1860	2590	2400	1810	3830	2840	1840
6020	7723-14-0	Phosphorus	mg/kg	346 J Q	265 J Q	402 J Q	310 J Q	220 J Q	387 J Q	237	155
6020	7782-49-2	Selenium	mg/kg	0.530 U	0.539 U	0.520 U	0.519 U	0.515 U	0.551 U	0.542 U	0.558 U

U - Compound not detected above the reporting limit  
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R - Result is rejected

Sample Name				SL-734-SA5C-SB-9.0-10.0	SL-735-SA5C-SB-0.0-0.5	SL-735-SA5C-SB-4.0-5.0	SL-735-SA5C-SB-9.0-10.0	SL-736-SA5C-SB-2.0-3.0	SL-736-SA5C-SB-4.0-5.0	SL-736-SA5C-SB-9.0-10.0	SL-737-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/21/2012	04/12/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	04/12/2012
SDG				12E155	12D121	12E134	12E134	12E134	12E134	12E134	12D121
Start Depth				9	0	4	9	2	4	9	0
End Depth				10	0.5	5	10	3	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	10900	11400	9720	15000	9640	11900	14700	9770
6020	7439-89-6	Iron	mg/kg	16200	18600 J A	15100	18600	15400	17100	18600	17200 J A
6020	7439-92-1	Lead	mg/kg	5.05	5.16	4.48	5.34	6.68	5.23	5.26	3.8
6020	7439-93-2	Lithium	mg/kg	15.1	17.9	10.1	18.8	12	12.7	17.9	14.6
6020	7439-95-4	Magnesium	mg/kg	3290	5080	2790	4060	3100	3330	4130	5510
6020	7439-96-5	Manganese	mg/kg	372 J E	246	287 J A	309 J A	328 J A	331 J A	159 J A	245
6020	7439-98-7	Molybdenum	mg/kg	0.941	0.461 J Z	0.757	0.824	0.672	0.742	0.772	0.307 J Z
6020	7440-02-0	Nickel	mg/kg	8.68	7.78	9	10	9.33	9.53	8.66	6.53
6020	9/7/7440	Potassium	mg/kg	1320	3680	2220	1610	2750	2010	1520	4490
6020	7440-22-4	Silver	mg/kg	0.551 U	0.532 U	0.531 U	0.0817 J Z	0.519 U	0.525 U	0.551 U	0.525 U
6020	7440-23-5	Sodium	mg/kg	852	142	133	830	101 J Z	153	1080	145
6020	7440-24-6	Strontium	mg/kg	17	19	17.1	22	17.7	17.6	19.2	19.3
6020	7440-28-0	Thallium	mg/kg	0.222 J Z	0.229 J Z	0.226 J Z	0.227 J Z	0.237 J Z	0.264 J Z	0.227 J Z	0.223 J Z
6020	7440-31-5	Tin	mg/kg	11.0 U	10.6 U	10.6 U	11.0 U	10.4 U	10.5 U	11.0 U	10.5 U
6020	7440-32-6	Titanium	mg/kg	941	1230	708	1090	762	819	1030	1310
6020	7440-36-0	Antimony	mg/kg	0.205 J Z	0.292 J Q, E, Z	0.216 J Z	0.233 J Z	0.247 J Z	0.258 J Z	0.213 J Z	0.434 J Q, E, Z
6020	7440-38-2	Arsenic	mg/kg	4.01	4.74	3.17	4.05	3.39	3.8	4.03	1.92
6020	7440-39-3	Barium	mg/kg	86.3	125	101	89	100	114	89	144
6020	7440-41-7	Beryllium	mg/kg	0.500 J Z	0.354 J Z	0.502 J Z	0.772	0.490 J Z	0.604	0.612	0.206 J Z
6020	7440-42-8	Boron	mg/kg	5.51 U	5.32 U	5.31 U	5.51 U	5.19 U	5.25 U	5.51 U	5.25 U
6020	7440-43-9	Cadmium	mg/kg	0.184 J Z	0.177 J Z	0.222 J Z	0.176 J Z	0.270 J Z	0.205 J Z	0.144 J Z	0.146 J Z
6020	7440-47-3	Chromium	mg/kg	14.6	12.7 J Q	13.7	16.1	13.7	15.5	17.1	9.90 J Q
6020	7440-48-4	Cobalt	mg/kg	9.12	5.61	5.76	13.7	5.7	6.58	4.02	5.55
6020	7440-50-8	Copper	mg/kg	5.26	8.62	8.33	6.2	10	8.41	7.49	11.1
6020	7440-62-2	Vanadium	mg/kg	32.4	33.6	27.7	34.7	27.4	31.1	35.4	32.9
6020	7440-66-6	Zinc	mg/kg	32.8	56.1	35.1	37.1	41.4	38	35.5	58
6020	7440-67-7	Zirconium	mg/kg	5.51 UJ Q	5.32 UJ Q	5.31 U	5.51 U	5.19 U	5.25 U	5.51 U	5.25 UJ Q
6020	7440-70-2	Calcium	mg/kg	1360	3160	1430	1790	1900	1430	1270	4290
6020	7723-14-0	Phosphorus	mg/kg	92.5	546	157	127	215	136	113	651
6020	7782-49-2	Selenium	mg/kg	0.551 U	0.532 U	0.531 U	0.551 U	0.519 U	0.525 U	0.551 U	0.525 U

U - Compound not detected above the reporting limit  
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R - Result is rejected

Sample Name				SL-737-SA5C-SB-2.5-3.5	SL-737-SA5C-SB-4.0-5.0	SL-737-SA5C-SB-9.0-10.0	SL-738-SA5C-SB-0.0-0.5	SL-738-SA5C-SB-4.0-5.0	SL-738-SA5C-SB-9.0-10.0	SL-739-SA5C-SB-0.0-0.5	SL-739-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012
SDG				12E134	12E134	12E134	12E134	12E134	12E134	12E134	12E134
Start Depth				2.5	4	9	0	4	9	0	4
End Depth				3.5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	13900	11700	12800	11100	12200	12300	10300	12600
6020	7439-89-6	Iron	mg/kg	18600	18300	18100	17000	17700	17200	17000	16800
6020	7439-92-1	Lead	mg/kg	6.5	5.71	4.99	7.01	5.35	5.15	3.82	4.97
6020	7439-93-2	Lithium	mg/kg	21.9	12.7	14.9	19.2	13.1	14.4	23.7	13.7
6020	7439-95-4	Magnesium	mg/kg	4270	3330	3970	3960	3430	3470	4080	3330
6020	7439-96-5	Manganese	mg/kg	247 J A	358 J A	161 J A	232 J A	325 J A	189 J A	223 J A	323 J A
6020	7439-98-7	Molybdenum	mg/kg	0.469 J Z	0.775	0.801	0.470 J Z	0.799	0.719	0.357 J Z	0.654
6020	7440-02-0	Nickel	mg/kg	8.88	9.39	7.92	7.96	9.85	7.62	7.31	8.87
6020	9/7/7440	Potassium	mg/kg	2720	1840	1810	2430	1950	1170	2540	1840
6020	7440-22-4	Silver	mg/kg	0.542 U	0.540 U	0.537 U	0.534 U	0.553 U	0.550 U	0.523 U	0.551 U
6020	7440-23-5	Sodium	mg/kg	102 J Z	112	484	93.8 J Z	206	1120	82.6 J Z	146
6020	7440-24-6	Strontium	mg/kg	17.4	16.8	17.5	15.8	18.3	17.9	11.2	16.9
6020	7440-28-0	Thallium	mg/kg	0.244 J Z	0.255 J Z	0.199 J Z	0.227 J Z	0.270 J Z	0.204 J Z	0.205 J Z	0.254 J Z
6020	7440-31-5	Tin	mg/kg	10.8 U	10.8 U	10.7 U	10.7 U	11.1 U	11.0 U	10.5 U	11.0 U
6020	7440-32-6	Titanium	mg/kg	996	800	1040	860	849	928	862	878
6020	7440-36-0	Antimony	mg/kg	0.217 J Z	0.251 J Z	0.224 J Z	0.218 J Z	0.197 J Z	0.176 J Z	0.175 J Z	0.172 J Z
6020	7440-38-2	Arsenic	mg/kg	4.06	4.25	3.74	6.31	3.95	3.42	3.45	3.45
6020	7440-39-3	Barium	mg/kg	85.8	101	88.3	77	135	81.7	63.2	114
6020	7440-41-7	Beryllium	mg/kg	0.533 J Z	0.652	0.515 J Z	0.460 J Z	0.648	0.500 J Z	0.412 J Z	0.584
6020	7440-42-8	Boron	mg/kg	5.42 U	5.40 U	5.37 U	5.34 U	5.53 U	5.50 U	5.23 U	5.51 U
6020	7440-43-9	Cadmium	mg/kg	0.173 J Z	0.171 J Z	0.126 J Z	0.171 J Z	0.200 J Z	0.137 J Z	0.133 J Z	0.171 J Z
6020	7440-47-3	Chromium	mg/kg	14.9	15.7	15.7	13.5	15.7	16.1	12.4	14.6
6020	7440-48-4	Cobalt	mg/kg	5.02	7.54	3.9	4.73	6.45	4.19	4.27	6.26
6020	7440-50-8	Copper	mg/kg	6.76	7.19	6.65	6.27	8.39	5.3	5.19	7
6020	7440-62-2	Vanadium	mg/kg	31	33.9	34.3	28.3	32.3	31.9	25.7	29.9
6020	7440-66-6	Zinc	mg/kg	52.8	36.5	36.4	48.3	39.3	33.7	74.4	37.7
6020	7440-67-7	Zirconium	mg/kg	5.42 U	5.40 U	5.37 U	5.34 U	5.53 U	5.50 U	5.23 U	5.51 U
6020	7440-70-2	Calcium	mg/kg	3100	1530	1750	2880	1500	1200	2280	1480
6020	7723-14-0	Phosphorus	mg/kg	294	134	180	299	137	92.8	317	114
6020	7782-49-2	Selenium	mg/kg	0.542 U	0.540 U	0.537 U	0.534 U	0.553 U	0.550 U	0.523 U	0.551 U

U - Compound not detected above the reporting limit  
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Sample Name				SL-739-SA5C-SB-9.0-10.0	SL-741-SA5C-SB-0.0-0.5	SL-741-SA5C-SB-4.0-5.0	SL-741-SA5C-SB-9.0-10.0	SL-742-SA5C-SB-0.0-0.5	SL-747-SA5C-SB-0.0-0.5	SL-747-SA5C-SB-2.5-3.5	SL-750-SA5C-SB-0.0-0.5	
Sample Type				N	N	N	N	N	N	N	N	
Sample Date				05/17/2012	07/24/2012	07/24/2012	07/24/2012	07/24/2012	07/24/2012	04/17/2012	06/26/2012	05/29/2012
SDG				12E134	12G199	12G199	12G199	12G199	12G199	12D155	12F197	12E229
Start Depth				9	0	4	9	0	0	0	2.5	0
End Depth				10	0.5	5	10	0.5	0.5	0.5	3.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
6020	7429-90-5	Aluminum	mg/kg	16400	13000	15200	15700	13800	13600 J Q	18600	15400	
6020	7439-89-6	Iron	mg/kg	19400	19200	16400	21100	19100	18300	21700	26200	
6020	7439-92-1	Lead	mg/kg	5.27	4.61	4.76	4.54	4.59	30.1	7.52	6.09	
6020	7439-93-2	Lithium	mg/kg	20.4	24.2	15.7	16.7	22.6	13.3	23.7	42.3	
6020	7439-95-4	Magnesium	mg/kg	4070	4940	3310	4410	4770	3500	4090 J Q	6370	
6020	7439-96-5	Manganese	mg/kg	158 J A	318	134	120	252	345 J E	519	349	
6020	7439-98-7	Molybdenum	mg/kg	0.716	0.452 J Z	0.75	0.516 J Z	0.495 J Z	0.96	0.263 J Z	0.496 J Z	
6020	7440-02-0	Nickel	mg/kg	9.54	9.25	7.61	6.18	9.77	20.3	15.4	15.7	
6020	9/7/7440	Potassium	mg/kg	1400	2800	1490	1150	2910	3040	1470	4180	
6020	7440-22-4	Silver	mg/kg	0.536 U	0.539 U	0.559 U	0.569 U	0.536 U	0.413 J Z	0.0575 J Z	0.535 U	
6020	7440-23-5	Sodium	mg/kg	1270	91.7 J Z	151	219	87.6 J Z	81.5 J Z	141	159	
6020	7440-24-6	Strontium	mg/kg	20.7	16.5	16.7	20.6	14.8	32.5	29.4	18.6	
6020	7440-28-0	Thallium	mg/kg	0.275 J Z	0.231 J Z	0.213 J Z	0.192 J Z	0.236 J Z	0.233 J Z	0.253 J Z	0.371 J Z	
6020	7440-31-5	Tin	mg/kg	10.7 U	10.8 U	11.2 U	11.4 U	10.7 U	11.3 U	10.8 U	10.7 U	
6020	7440-32-6	Titanium	mg/kg	961	974	831	772	1010	574	662	1360	
6020	7440-36-0	Antimony	mg/kg	0.236 J Z	0.184 J Z	0.165 J Z	0.157 J Z	0.285 J Z	0.514 J Q, Z	0.240 J Q, Z	0.215 J Z	
6020	7440-38-2	Arsenic	mg/kg	4.15	4.51	4.04	4.59	14	4.18	5.92	5.67	
6020	7440-39-3	Barium	mg/kg	82.6	76.5	72.7	79	83.3	117 J Q, E	149	155	
6020	7440-41-7	Beryllium	mg/kg	0.635	0.495 J Z	0.558 J Z	0.57	0.514 J Z	0.631	0.856	0.618	
6020	7440-42-8	Boron	mg/kg	5.36 U	5.39 U	5.59 U	5.69 U	5.36 U	3.12 J Z	5.40 U	5.35 U	
6020	7440-43-9	Cadmium	mg/kg	0.163 J Z	0.185 J Z	0.131 J Z	0.0864 J Z	0.171 J Z	0.924	0.252 J Z	0.242 J Z	
6020	7440-47-3	Chromium	mg/kg	18.5	16.3	14.7	17.1	17.4	20.9	21.6 J Q	22.2	
6020	7440-48-4	Cobalt	mg/kg	4.2	4.83	3.6	3.12	5.13	6.87	9.78	7.61	
6020	7440-50-8	Copper	mg/kg	6.84	7.05	4.49	6.14	7.42	36.8	7.67	11.6	
6020	7440-62-2	Vanadium	mg/kg	34.7	32.3	30.1	34.3	33.5	36	44.3 J Q	41.1	
6020	7440-66-6	Zinc	mg/kg	38.6	49.5	31.2	33.5	48.3	276	43.2	92.4	
6020	7440-67-7	Zirconium	mg/kg	5.36 U	5.39 U	5.59 U	5.69 U	5.36 U	5.63 UJ Q	5.40 U	5.35 U	
6020	7440-70-2	Calcium	mg/kg	1420	14800	1930	2090	2960	3410	3400	2900	
6020	7723-14-0	Phosphorus	mg/kg	89.8	309	124	212	370	291	80.4	367	
6020	7782-49-2	Selenium	mg/kg	0.536 U	0.539 U	0.559 U	0.569 U	0.536 U	0.563 U	0.540 U	0.535 U	

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Sample Name				SL-750-SA5C-SB-5.5-6.5	SL-752-SA5C-SB-0.0-0.5	SL-754-SA5C-SB-0.0-0.5	SL-754-SA5C-SB-4.0-5.0	SL-754-SA5C-SB-6.5-7.5	SL-755-SA5C-SB-0.0-0.5	SL-755-SA5C-SB-4.0-5.0	SL-755-SA5C-SB-5.5-6.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/29/2012	05/30/2012	07/09/2012	07/09/2012	07/09/2012	07/10/2012	07/10/2012	07/10/2012
SDG				12E229	12E244	12G030	12G030	12G030	12G048	12G048	12G048
Start Depth				5.5	0	0	4	6.5	0	4	5.5
End Depth				6.5	0.5	0.5	5	7.5	0.5	5	6.5
Analytic Method	CAS Number	Chemical Name	Unit								
6020	7429-90-5	Aluminum	mg/kg	17400	14100	17600	16800	8120	13500	17600	20700
6020	7439-89-6	Iron	mg/kg	30600	18900	20800	23700	14900	39300	29500	40700
6020	7439-92-1	Lead	mg/kg	10.7	5.95	6.37	6.97	3.36	41.7	12.2	16.6
6020	7439-93-2	Lithium	mg/kg	39.4	15.3	19.5	27.1	18	15.6	37	60.4
6020	7439-95-4	Magnesium	mg/kg	7310	3510 J Q	4150	5410	3360	4000	6090	9950
6020	7439-96-5	Manganese	mg/kg	286	187	288	350	200	380	372	576
6020	7439-98-7	Molybdenum	mg/kg	0.494 J Z	0.287 J Z	0.498 J Z	0.576	0.246 J Z	1.65	0.611	0.902
6020	7440-02-0	Nickel	mg/kg	18.6	8.09	12.7	14.2	7.52	17.8	18	29.8
6020	9/7/7440	Potassium	mg/kg	2930	1390	2110	1590	1490	2560	1660	3030
6020	7440-22-4	Silver	mg/kg	0.0985 J Z	0.570 U	0.0560 J Z	0.0768 J Z	0.505 U	0.128 J Z	0.121 J Z	0.177 J Z
6020	7440-23-5	Sodium	mg/kg	143	184	90.1 J Z	138	92.9 J Z	108	123	265
6020	7440-24-6	Strontium	mg/kg	23.1	27.8	26	31	15.1	28.7	29.1	35.7
6020	7440-28-0	Thallium	mg/kg	0.319 J Z	0.214 J Z	0.253 J Z	0.265 J Z	0.181 J Z	0.255 J Z	0.258 J Z	0.442
6020	7440-31-5	Tin	mg/kg	10.4 U	11.4 U	10.3 U	10.9 U	10.1 U	6.37 J Z	6.38 J Z	10.5 U
6020	7440-32-6	Titanium	mg/kg	898	748	832	930	734	768	1040	1140
6020	7440-36-0	Antimony	mg/kg	0.217 J Z	0.214 J Z	0.137 J Z	0.195 J Z	0.109 J Z	1.25	0.318 J Z	0.608
6020	7440-38-2	Arsenic	mg/kg	8.84	4.17	4.27	5.42	3.99	4.97	7.29	21
6020	7440-39-3	Barium	mg/kg	139	94.3	134	111	56.1	138 J Q	126 J Q	167 J Q
6020	7440-41-7	Beryllium	mg/kg	0.936	0.585	0.744	0.724	0.322 J Z	0.572	0.743	1.03
6020	7440-42-8	Boron	mg/kg	5.22 U	5.70 U	3.42 J Z	5.45 U	5.05 U	2.74 J Z	5.42 U	5.27 U
6020	7440-43-9	Cadmium	mg/kg	0.269 J Z	0.112 J Z	0.222 J Z	0.222 J Z	0.104 J Z	1.36	0.430 J Z	0.502 J Z
6020	7440-47-3	Chromium	mg/kg	27.6	16.5	20.8	23.1	11.8	24.3	26.2	38.1
6020	7440-48-4	Cobalt	mg/kg	7.93	6.93	5.99 J A	7.79 J A	3.75 J A	7.65	7.65	13
6020	7440-50-8	Copper	mg/kg	19	6.27	8.4	10.1	5.67	64.1	28.9	28.9
6020	7440-62-2	Vanadium	mg/kg	48.8	33	37.3	40.4	23.7	35.8	44.7	59.6
6020	7440-66-6	Zinc	mg/kg	90.2	33.7	48.4	53	39.4	3160	532	116
6020	7440-67-7	Zirconium	mg/kg	5.22 U	5.70 UJ Q	5.16 U	5.45 U	5.05 U	5.30 U	2.73 J Z	2.98 J Z
6020	7440-70-2	Calcium	mg/kg	10700	2740	2630	3460	1980	3080	3900	6330
6020	7723-14-0	Phosphorus	mg/kg	685	62.3	177	186	239	281	250	770
6020	7782-49-2	Selenium	mg/kg	0.522 U	0.570 U	0.516 U	0.545 U	0.505 U	0.530 U	0.542 U	0.527 U

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Sample Name				SL-501-SA5C-SB-0.0-0.5	SL-501-SA5C-SB-4.0-5.0	SL-502-SA5C-SB-0.0-0.5	SL-802-SA5C-SB-0.0-0.5	SL-502-SA5C-SB-4.5-5.5	SL-507-SA5C-SB-0.0-0.5	SL-507-SA5C-SB-2.5-3.5	SL-508-SA5C-SB-0.0-0.5
Sample Type				N	N	N	FD	N	N	N	N
Sample Date				04/20/2012	06/28/2012	04/20/2012	04/20/2012	06/28/2012	04/20/2012	06/11/2012	04/20/2012
SDG				12D191	12F232	12D191	12D191	12F232	12D191	12F071	12D191
Start Depth				0	4	0	0	4.5	0	2.5	0
End Depth				0.5	5	0.5	0.5	5.5	0.5	3.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.5 U	5.6 U	5.9 U	5.7 U	5.6 U	5.5 U	5.4 U	5.5 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	6.3 J Z	11 U	7.9 J Z	4.8 J Z	11 U	4.4 J Z	11 U	7.8 J Z
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	18	11 U	5.0 J FD, Z	11 UJ FD	11 U	11 U	11 U	2.8 J Z
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	18	5.6 U	5.4 J FD, Z	3.0 J FD, Z	5.6 U	6.4	5.4 U	7.2
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	17	11 U	5.0 J FD, Z	11 UJ FD	11 U	11 U	11 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	17	11 U	7.4 J FD, Z	4.0 J FD, Z	11 U	5.9 J Z	11 U	9.5 J Z
8270C SIM	206-44-0	Fluoranthene	µg/kg	7.9 J Z	11 U	12 J FD	7.1 J FD, Z	11 U	5.6 J Z	11 U	9.2 J Z
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	3.2 J Z	11 U	12 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	7.2 J Z	11 U	4.9 J FD, Z	11 UJ FD	11 U	3.3 J Z	11 U	5.1 J Z
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	8.1 J Z	11 U	12 U	11 U	11 U	2.8 J Z	11 U	5.0 J Z
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	3.2 J Z	11 U	12 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	3.4 J Z	11 U	3.1 J FD, Z	11 UJ FD	11 U	2.8 J Z	11 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	5.2 J Z	11 U	5.0 J Z	4.3 J Z	11 U	11 U	11 U	3.0 J Z
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	12 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.5 U	5.6 U	5.9 U	5.7 U	5.6 U	5.5 U	5.4 U	5.5 U

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

Sample Name				SL-508-SA5C-SB-4.0-5.0	SL-508-SA5C-SB-6.5-7.5	SL-509-SA5C-SB-0.0-0.5	SL-509-SA5C-SB-4.0-5.0	SL-809-SA5C-SB-4.0-5.0	SL-509-SA5C-SB-9.0-10.0	SL-510-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	FD	N	N
Sample Date				06/11/2012	06/11/2012	04/20/2012	06/11/2012	06/11/2012	06/11/2012	04/19/2012
SDG				12F071	12F071	12D191	12F071	12F071	12F071	12D175
Start Depth				4	6.5	0	4	4	9	0
End Depth				5	7.5	0.5	5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.5 U	5.3 U	5.4 U	5.4 U	5.5 U	5.4 U	6.0 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	5.1 J Z
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	5.6 J Z	5.1 J FD, Z	11 UJ FD	11 U	43
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	17
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.5 U	5.3 U	3.1 J Z	3.0 J FD, Z	5.5 UJ FD	5.4 U	20
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	14
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 U	5.4 J Z	5.7 J FD, Z	11 UJ FD	11 U	41
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	6.2 J Z	5.7 J FD, Z	11 UJ FD	11 U	46
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	14
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	3.1 J Z	11 U	11 U	11 U	28
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	3.1 J Z	3.3 J FD, Z	11 UJ FD	11 U	24
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	4.3 J Z
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	3.0 J Z	3.3 J FD, Z	11 UJ FD	11 U	14
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.5 U	5.3 U	5.4 U	5.4 U	5.5 U	5.4 U	6.0 U

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

Sample Name				SL-512A-SA5C-SB-0.0-0.5	SL-512-SA5C-SB-0.0-0.5	SL-812-SA5C-SB-0.0-0.5	SL-512-SA5C-SB-4.0-5.0	SL-512-SA5C-SB-6.0-7.0	SL-513-SA5C-SB-0.0-0.5	SL-513-SA5C-SB-4.0-5.0
Sample Type				N	N	FD	N	N	N	N
Sample Date				04/23/2012	05/10/2012	05/10/2012	05/10/2012	05/10/2012	04/19/2012	05/10/2012
SDG				12D198	12E082	12E082	12E082	12E082	12D175	12E082
Start Depth				0	0	0	4	6	0	4
End Depth				0.5	0.5	0.5	5	7	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.7 U	11 U	11 U	5.8 U	5.7 U	12 U	5.6 U
8270C SIM	120-12-7	Anthracene	µg/kg	4.7 J Z	22 U	22 U	12 U	11 U	23 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	49	46 J Q	39	12 U	11 U	5.9 J Z	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	31	26	18 J Z	12 U	11 U	23 U	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	25	29	22	5.8 U	5.7 U	12 U	5.6 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	19	16 J Z	11 J Z	12 U	11 U	23 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	39	49 J Q	35	12 U	11 U	23 U	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	52	39 J Q	39	12 U	11 U	6.8 J Z	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	12	10 J Z	7.7 J Z	12 U	11 U	23 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	22 U	22 U	12 U	11 U	23 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	26	26	22	12 U	11 U	23 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	31	33	24	12 U	11 U	23 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	6.4 J Z	6.2 J FD, Z	22 UJ FD	12 U	11 U	23 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	22	26	21 J Z	12 U	11 U	23 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	22 U	22 U	12 U	11 U	23 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	22 U	22 U	12 U	11 U	23 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	21	12 J Z	15 J Z	12 U	11 U	23 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	22 U	22 U	12 U	11 U	23 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	22 U	22 U	12 U	11 U	23 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	22 U	22 U	12 U	11 U	23 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	22 U	22 U	12 U	11 U	23 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.7 U	11 U	11 U	5.8 U	5.7 U	12 U	5.6 U

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R - Result is rejected

Sample Name				SL-513-SA5C-SB-9.0-10.0	SL-514-SA5C-SB-0.0-0.5	SL-814-SA5C-SB-0.0-0.5	SL-514-SA5C-SB-4.0-5.0	SL-514-SA5C-SB-9.0-10.0	SL-515-SA5C-SB-0.0-0.5	SL-515-SA5C-SB-4.0-5.0
Sample Type				N	N	FD	N	N	N	N
Sample Date				05/14/2012	04/17/2012	04/17/2012	05/14/2012	05/14/2012	04/19/2012	06/25/2012
SDG				12E098	12D155	12D155	12E098	12E098	12D175	12F182
Start Depth				9	0	0	4	9	0	4
End Depth				10	0.5	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.7 U	5.8 U	5.8 U	5.4 U	5.4 U	5.6 U	5.7 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	3.0 J Z	4.3 J S, Z	11 U	11 U	4.6 J S, Z	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.7 U	5.8 U	5.8 UJ S	5.4 U	5.4 U	5.6 UJ S	5.7 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	3.0 J Z	3.6 J S, Z	11 U	11 U	3.3 J S, Z	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	3.7 J Z	4.9 J S, Z	11 U	11 U	5.7 J S, Z	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	3.2 J S, Z	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	12 U	12 U	11 U	11 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	12 U	12 UJ S	11 U	11 U	11 UJ S	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.7 U	5.8 U	5.8 U	5.4 U	5.4 U	5.6 U	5.7 U

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

Sample Name				SL-515-SA5C-SB-9.0-10.0	SL-516-SA5C-SB-0.0-0.5	SL-516-SA5C-SB-4.0-5.0	SL-517-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-4.0-5.0	SL-518-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N
Sample Date				06/25/2012	04/19/2012	04/19/2012	04/19/2012	04/19/2012	06/11/2012	06/11/2012
SDG				12F182	12D175	12D175	12D175	12D175	12F071	12F071
Start Depth				9	0	4	0	0	4	9
End Depth				10	0.5	5	0.5	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.5 U	12 U	5.8 U	16 U	10 U	11 U	5.4 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 UJ S	21 J Z	12 UJ S	92	21 U	22 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 UJ S	310	4.2 J S, Z	670	8.3 J Z	27	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 UJ S	58	12 UJ S	190	19 J Z	8.8 J Z	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.5 UJ S	88	5.8 UJ S	190	27	30	5.4 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 UJ S	45	12 UJ S	160	7.4 J Z	9.6 J Z	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 UJ S	160	12 UJ S	400	16 J Z	50	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 UJ S	400	5.1 J S, Z	710	8.6 J Z	32	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 UJ S	59	12 UJ S	140	21 U	16 J Z	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 UJ S	8.1 J Z	12 UJ S	32 U	21 U	22 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 UJ S	150	12 UJ S	330	25	19 J Z	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 UJ S	93	12 UJ S	310	7.9 J Z	32	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 UJ S	19 J Z	12 UJ S	53	21 U	22 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 UJ S	97	12 UJ S	270	21 U	21 J Z	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 UJ S	23 U	12 UJ S	32 U	21 U	22 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 UJ S	6.3 J Z	12 UJ S	51	21 U	22 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 UJ S	210	12 UJ S	460	21 U	22 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 UJ S	7.1 J Z	12 UJ S	35	21 U	22 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	23 U	12 U	32 U	21 U	22 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 UJ S	23 U	12 UJ S	32 U	21 U	22 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 UJ S	23 U	12 UJ S	32 U	21 U	22 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.5 U	12 U	5.8 U	16 U	10 U	11 U	5.4 U

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

Sample Name				SL-520-SA5C-SB-0.0-0.5	SL-520-SA5C-SB-6.5-7.5	SL-521-SA5C-SB-0.0-0.5	SL-521-SA5C-SB-4.0-5.0	SL-521-SA5C-SB-9.0-10.0	SL-522-SA5C-SB-0.0-0.5	SL-522-SA5C-SB-4.0-5.0	SL-822-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	FD
Sample Date				04/23/2012	06/11/2012	06/11/2012	06/11/2012	06/11/2012	04/25/2012	07/09/2012	07/09/2012
SDG				12D198	12F071	12F071	12F071	12F071	12D231	12G030	12G030
Start Depth				0	6.5	0	4	9	0	4	4
End Depth				0.5	7.5	0.5	5	10	0.5	5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	17 U	11 U	17 U	5.7 U	11 U	5.4 U	5.4 U	5.5 U
8270C SIM	120-12-7	Anthracene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	31 J Z	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	20	8.3 J Z	11 J Z	5.7 U	11 U	5.4 U	5.4 U	5.5 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	9.6 J Z	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	33 U	6.1 J Z	10 J Z	11 U	23 U	11 U	11 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	33 U	21 U	34 U	11 U	23 U	11 U	11 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	17 U	11 U	17 U	5.7 U	11 U	5.4 U	5.4 U	5.5 U

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

				Sample Name	SL-522-SA5C-SB-9.0-10.0	SL-523-SA5C-SB-0.0-0.5	SL-523-SA5C-SB-4.0-5.0	SL-523-SA5C-SB-9.0-10.0	SL-524-SA5C-SB-0.0-0.5	SL-524-SA5C-SB-4.0-5.0	SL-525-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N
				Sample Date	07/09/2012	04/25/2012	07/09/2012	07/09/2012	04/24/2012	06/19/2012	04/24/2012
				SDG	12G030	12D231	12G030	12G030	12D208	12F132	12D208
				Start Depth	9	0	4	9	0	4	0
				End Depth	10	0.5	5	10	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.4 U	10 U	11 U	11 U	11 U	5.3 U	5.3 U	5.3 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	21 U	21 U	22 U	22 U	11 U	11 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	21 U	21 U	22 U	22 U	11 U	11 U	8.1 J Z
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	10 J Z	21 U	22 U	22 U	14	11 U	25
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.4 U	12	11 U	11 U	11 U	12	5.3 U	15
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	21 U	21 U	22 U	22 U	2.9 J Z	11 U	6.8 J Z
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	21 U	21 U	22 U	22 U	5.0 J Z	11 U	13
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	5.4 J Z	21 U	22 U	22 U	11 U	11 U	5.2 J Z
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	21 U	21 U	22 U	22 U	11 U	11 U	4.0 J Z
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	21 U	21 U	22 U	22 U	11 U	11 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	21 U	21 U	22 U	22 U	8.8 J Z	11 U	7.8 J Z
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	21 U	21 U	22 U	22 U	3.4 J Z	11 U	14
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	21 U	21 U	22 U	22 U	11 U	11 U	3.0 J Z
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	21 U	21 U	22 U	22 U	5.6 J Z	11 U	7.5 J Z
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	21 U	21 U	22 U	22 U	11 U	11 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	21 U	21 U	22 U	22 U	11 U	11 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	21 U	21 U	22 U	22 U	11 U	11 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	21 U	21 U	22 U	22 U	11 U	11 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	21 U	21 U	22 U	22 U	11 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	21 U	21 U	22 U	22 U	11 U	11 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	21 U	21 U	22 U	22 U	11 U	11 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.4 U	10 U	11 U	11 U	11 U	5.3 U	5.3 U	5.3 U

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

Sample Name				SL-525-SA5C-SB-4.0-5.0	SL-525-SA5C-SB-9.0-10.0	SL-526-SA5C-SB-0.0-0.5	SL-526-SA5C-SB-4.0-5.0	SL-526-SA5C-SB-9.0-10.0	SL-527-SA5C-SB-0.0-0.5	SL-527-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N
Sample Date				06/19/2012	06/19/2012	04/25/2012	06/19/2012	06/19/2012	04/25/2012	06/19/2012
SDG				12F132	12F132	12D231	12F132	12F132	12D231	12F132
Start Depth				4	9	0	4	9	0	4
End Depth				5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.4 U	5.4 U	5.5 U	5.5 U	5.4 U	5.4 U	5.5 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	129-00-0	Pyrene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 UJ S	5.1 J Z	3.5 J Z	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.4 UJ S	4.9 J Z	4.8 J Z	5.5 U	5.4 UJ S	5.4 U	5.5 UJ S
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 UJ S	11 U	2.9 J Z	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	218-01-9	Chrysene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 UJ S	2.8 J Z	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	86-73-7	Fluorene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 UJ S	11 U	11 U	11 U	11 UJ S	11 U	11 UJ S
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.4 U	5.4 U	5.5 U	5.5 U	5.4 U	5.4 U	5.5 U

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R - Result is rejected

Sample Name				SL-528-SA5C-SB-0.0-0.5	SL-528-SA5C-SB-4.0-5.0	SL-828-SA5C-SB-4.0-5.0	SL-529-SA5C-SB-0.0-0.5	SL-529-SA5C-SB-4.0-5.0	SL-530-SA5C-SB-0.0-0.5	SL-530-SA5C-SB-4.0-5.0	SL-530-SA5C-SB-9.0-10.0
Sample Type				N	N	FD	N	N	N	N	N
Sample Date				04/25/2012	06/19/2012	06/19/2012	04/25/2012	05/09/2012	04/25/2012	07/09/2012	07/09/2012
SDG				12D231	12F132	12F132	12D231	12E082	12D231	12G030	12G030
Start Depth				0	4	4	0	4	0	4	9
End Depth				0.5	5	5	0.5	5	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.3 U	5.4 U	5.3 U	5.3 U	5.5 U	5.3 U	5.6 U	5.2 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	11 U	11 U	10 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	4.0 J Z	11 U	10 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	3.3 J Z	11 U	10 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.3 U	5.4 U	5.3 UJ S	5.2 J Z	5.5 U	7.1	5.6 U	5.2 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	11 U	11 U	10 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 U	11 UJ S	4.7 J Z	11 U	6.7 J Z	11 U	10 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	11 UJ S	2.8 J Z	11 U	4.9 J Z	11 U	10 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	11 U	11 U	10 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	11 U	11 U	10 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	2.8 J Z	11 U	10 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	3.8 J Z	11 U	10 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	11 U	11 U	10 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	11 U	11 U	10 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	11 U	11 U	10 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	11 U	11 U	10 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	11 U	11 U	10 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	11 U	11 U	10 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	10 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	11 U	11 U	10 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 UJ S	11 U	11 U	11 U	11 U	10 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.3 U	5.4 U	5.3 U	5.3 U	5.5 U	5.3 U	5.6 U	5.2 U

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R - Result is rejected

Sample Name				SL-531-SA5C-SB-0.0-0.5	SL-531-SA5C-SB-4.0-5.0	SL-531-SA5C-SB-9.0-10.0	SL-532-SA5C-SB-0.0-0.5	SL-533-SA5C-SB-0.0-0.5	SL-533-SA5C-SB-4.0-5.0	SL-533-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N
Sample Date				04/25/2012	07/09/2012	07/09/2012	04/23/2012	04/23/2012	07/09/2012	07/09/2012
SDG				12D231	12G030	12G030	12D198	12D198	12G030	12G030
Start Depth				0	4	9	0	0	4	9
End Depth				0.5	5	10	0.5	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.4 U	5.5 U	5.5 U	16 U	11 U	5.5 U	11 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	11 U	33	21 U	11 U	22 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	11 U	340	21 U	11 U	22 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	11 U	150	19 J Z	11 U	22 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.5	5.5 U	5.5 U	150	9.5 J Z	5.5 U	11 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	11 U	110	21 U	11 U	22 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	3.0 J Z	11 U	11 U	260	21 U	11 U	22 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	11 U	380	21 U	11 U	22 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	11 U	65	21 U	11 U	22 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 U	33 U	21 U	11 U	22 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	11 U	180	21 U	11 U	22 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	11 U	180	21 U	11 U	22 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	11 U	33 U	21 U	11 U	22 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	3.2 J Z	11 U	11 U	120	21 U	11 U	22 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	11 U	33 U	21 U	11 U	22 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	11 U	32 J Z	21 U	11 U	22 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	11 U	290	21 U	11 U	22 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	11 U	22 J Z	21 U	11 U	22 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	33 U	21 U	11 U	22 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 U	33 U	21 U	11 U	22 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 U	33 U	21 U	11 U	22 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.4 U	5.5 U	5.5 U	16 U	11 U	5.5 U	11 U

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R - Result is rejected

Sample Name				SL-536-SA5C-SB-0.0-0.5	SL-536-SA5C-SB-4.0-5.0	SL-536-SA5C-SB-9.0-10.0	SL-537-SA5C-SB-0.0-0.5	SL-537-SA5C-SB-4.0-5.0	SL-537-SA5C-SB-9.0-10.0	SL-539-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N
Sample Date				05/08/2012	06/01/2012	06/01/2012	06/07/2012	06/07/2012	06/07/2012	06/05/2012
SDG				12E055	12F020	12F020	12F051	12F051	12F051	12F037
Start Depth				0	4	9	0	4	9	0
End Depth				0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.4 U	5.4 U	5.5 U	5.7 U	5.8 U	5.8 U	5.7 U
8270C SIM	120-12-7	Anthracene	µg/kg	21	11 U	11 U	11 U	12 U	12 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	170	11 U	6.2 J Z	8.6 J Z	12 U	12 U	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	53	11 U	11 U	11 U	12 U	12 U	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	50	5.4 U	5.5 U	5.7 U	5.8 U	5.8 U	5.7 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	45	11 U	11 U	11 U	12 U	12 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	100	11 U	3.0 J Z	4.5 J Z	12 U	12 U	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	170	11 U	6.0 J Z	8.8 J Z	12 U	12 U	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	36	11 U	11 U	11 U	12 U	12 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 U	11 U	12 U	12 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	78	11 U	3.0 J Z	3.5 J Z	12 U	12 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	89	11 U	2.8 J Z	3.8 J Z	12 U	12 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	14	11 U	11 U	11 U	12 U	12 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	77	11 U	3.4 J Z	4.1 J Z	12 U	12 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	2.7 J Z	11 U	11 U	11 U	12 U	12 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	14	11 U	11 U	11 U	12 U	12 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	57	11 U	3.8 J Z	5.0 J Z	12 U	12 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	5.7 J Z	11 U	11 U	11 U	12 U	12 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	12 U	12 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 U	11 U	12 U	12 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	12 U	12 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.4 U	5.4 U	5.5 U	5.7 U	5.8 U	5.8 U	5.7 U

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R - Result is rejected

Sample Name				SL-539-SA5C-SB-6.0-7.0	SL-542-SA5C-SB-0.0-0.5	SL-542-SA5C-SB-1.0-2.0	SL-543-SA5C-SB-0.0-0.5	SL-543-SA5C-SB-3.5-4.5	SL-544-SA5C-SB-0.0-0.5	SL-544-SA5C-SB-5.0-6.0	SL-545-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/05/2012	05/09/2012	05/09/2012	06/05/2012	06/05/2012	05/30/2012	05/30/2012	06/04/2012
SDG				12F037	12E067	12E067	12F037	12F037	12E244	12E244	12F037
Start Depth				6	0	1	0	3.5	0	5	0
End Depth				7	0.5	2	0.5	4.5	0.5	6	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.5 U	10 U	5.6 U	5.5 U	5.3 U	5.4 U	5.8 U	5.7 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 UJ S	20 U	11 U	11 U	11 UJ S	11 U	12 U	47
8270C SIM	129-00-0	Pyrene	µg/kg	11 UJ S	34	11 U	11 U	11 UJ S	11 U	12 U	280
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 UJ S	20	11 U	11 U	11 UJ S	11 U	12 U	33
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.5 UJ S	22	5.6 U	5.5 U	5.3 UJ S	5.4 U	5.8 U	65
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 UJ S	12 J Z	11 U	11 U	11 UJ S	11 U	12 U	33
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 UJ S	35	11 U	11 U	11 UJ S	11 U	12 U	140
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 UJ S	35	11 U	11 U	11 UJ S	11 U	12 U	270
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 UJ S	9.0 J Z	11 U	11 U	11 UJ S	11 U	12 U	57
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 UJ S	20 U	11 U	11 U	11 UJ S	11 U	12 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 UJ S	25	11 U	11 U	11 UJ S	11 U	12 U	100
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 UJ S	18 J Z	11 U	11 U	11 UJ S	11 U	12 U	110
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 UJ S	20 U	11 U	11 U	11 UJ S	11 U	12 U	9.3 J Z
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 UJ S	12 J Z	11 U	11 U	11 UJ S	11 U	12 U	110
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 UJ S	20 U	11 U	11 U	11 UJ S	11 U	12 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 UJ S	20 U	11 U	11 U	11 UJ S	11 U	12 U	25
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 UJ S	14 J Z	11 U	11 U	11 UJ S	11 U	12 U	160
8270C SIM	86-73-7	Fluorene	µg/kg	11 UJ S	20 U	11 U	11 U	11 UJ S	11 U	12 U	13
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	20 U	11 U	11 U	11 U	11 U	12 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 UJ S	6.6 J Z	11 U	11 U	11 UJ S	11 U	12 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 UJ S	20 U	11 U	11 U	11 UJ S	11 U	12 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.5 U	10 U	5.6 U	5.5 U	5.3 U	5.4 U	5.8 U	5.7 U

U - Compound not detected above the reporting limit

J - Result is an estimated value

R - Result is rejected

Sample Name				SL-545-SA5C-SB-4.0-5.0	SL-545-SA5C-SB-9.0-10.0	SL-546-SA5C-SB-0.0-0.5	SL-546-SA5C-SB-4.0-5.0	SL-846-SA5C-SB-4.0-5.0	SL-546-SA5C-SB-9.0-10.0	SL-547-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	FD	N	N
Sample Date				06/04/2012	06/04/2012	06/06/2012	06/06/2012	06/06/2012	06/06/2012	05/08/2012
SDG				12F037	12F037	12F044	12F044	12F044	12F044	12E055
Start Depth				4	9	0	4	4	9	0
End Depth				5	10	0.5	5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.7 U	5.7 U	5.6 U	5.8 U	5.9 U	5.8 U	11 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	23 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	11 J Z
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	14 J Z
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.7 U	5.7 U	5.6 U	5.8 U	5.9 U	5.8 U	15
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	7.4 J Z
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	20 J Z
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	12 J Z
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	23 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	23 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	4.9 J Z	11 U	12 U	12 U	12 U	23 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	7.2 J Z
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	23 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	23 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	23 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	23 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	23 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	23 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	23 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	23 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 U	12 U	12 U	12 U	23 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.7 U	5.7 U	5.6 U	5.8 U	5.9 U	5.8 U	11 U

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

Sample Name				SL-547-SA5C-SB-4.0-5.0	SL-547-SA5C-SB-9.0-10.0	SL-548-SA5C-SB-0.0-0.5	SL-548-SA5C-SB-4.0-5.0	SL-548-SA5C-SB-9.0-10.0	SL-550-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N
Sample Date				06/07/2012	06/07/2012	05/08/2012	06/07/2012	06/07/2012	05/30/2012	06/05/2012
SDG				12F051	12F051	12E055	12F051	12F051	12E244	12F037
Start Depth				4	9	0	4	9	0	0
End Depth				5	10	0.5	5	10	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.5 U	5.4 U	12 U	5.8 U	5.7 U	5.4 U	5.8 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	23 U	12 U	11 U	11 U	12 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	12 J Z	12 U	6.2 J Z	11 U	12 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	16 J Z	12 U	11 U	3.5 J Z	12 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.5 U	5.4 U	15	5.8 U	5.7 U	4.1 J Z	5.8 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	23 U	12 U	11 U	11 U	12 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 U	14 J Z	12 U	3.5 J Z	11 U	12 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	12 J Z	12 U	6.0 J Z	11 U	12 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	23 U	12 U	11 U	11 U	12 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	23 U	12 U	11 U	11 U	12 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	23 U	12 U	11 U	11 U	12 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	8.5 J Z	12 U	11 U	11 U	12 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	23 U	12 U	11 U	11 U	12 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	8.9 J Z	12 U	11 U	11 U	12 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	23 U	12 U	11 U	11 U	12 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	23 U	12 U	11 U	11 U	12 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	23 U	12 U	4.8 J Z	11 U	12 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	23 U	12 U	11 U	11 U	12 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	23 U	12 U	11 U	11 U	12 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	23 U	12 U	11 U	11 U	12 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	23 U	12 U	11 U	11 U	12 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.5 U	5.4 U	12 U	5.8 U	5.7 U	5.4 U	5.8 U

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

Sample Name				SL-551-SA5C-SB-4.0-5.0	SL-552-SA5C-SB-0.0-0.5	SL-554-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-2.5-3.5	SL-559-SA5C-SB-0.0-0.5	SL-559-SA5C-SB-2.0-3.0	SL-559-SA5C-SB-7.0-8.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/05/2012	06/05/2012	05/29/2012	05/29/2012	05/29/2012	06/07/2012	06/07/2012	06/07/2012
SDG				12F037	12F037	12E229	12E229	12E229	12F051	12F051	12F051
Start Depth				4	0	0	0	2.5	0	2	7
End Depth				4	0.5	0.5	0.5	3.5	0.5	3	8
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.6 U	32 U	5.5 U	17 U	5.7 U	12 U	12 U	5.8 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	7.2 J Z	23 U	12 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 UJ S	29 J Z	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.6 UJ S	70	5.5 U	13 J Z	5.7 U	10 J Z	7.4 J Z	5.8 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 UJ S	38 J Z	11 U	34 U	11 U	9.9 J Z	6.7 J Z	12 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	6.0 J Z	23 U	12 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 UJ S	41 J Z	11 U	34 U	11 U	7.2 J Z	23 U	12 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 UJ S	34 J Z	11 U	34 U	11 U	6.8 J Z	23 U	12 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 UJ S	23 J Z	11 U	13 J Z	11 U	15 J Z	8.4 J Z	12 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	64 U	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 UJ S	64 U	11 U	34 U	11 U	23 U	23 U	12 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.6 U	32 U	5.5 U	17 U	5.7 U	12 U	12 U	5.8 U

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

Sample Name				SL-560-SA5C-SB-0.0-0.5	SL-560-SA5C-SB-6.5-7.5	SL-561-SA5C-SB-0.0-0.5	SL-561-SA5C-SB-5.5-6.5	SL-562-SA5C-SB-0.0-0.5	SL-562-SA5C-SB-4.0-5.0	SL-562-SA5C-SB-9.0-10.0	SL-563-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/30/2012	05/30/2012	06/05/2012	06/05/2012	06/01/2012	06/01/2012	06/01/2012	06/01/2012
SDG				12E244	12E244	12F037	12F037	12F020	12F020	12F020	12F020
Start Depth				0	6.5	0	5.5	0	4	9	0
End Depth				0.5	7.5	0.5	6.5	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	17 U	5.5 U	5.7 U	5.3 U	5.9 U	5.9 U	5.8 U	6.1 U
8270C SIM	120-12-7	Anthracene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	129-00-0	Pyrene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	17 J Z	11 U	11 U	3.0 J Z	12 U	12 U	12 U	12 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	16 J Z	5.5 U	5.7 U	7	5.9 U	5.9 U	5.8 U	6.1 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	8.9 J Z	11 U	11 U	4.5 J Z	12 U	12 U	12 U	12 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	35 U	11 U	11 U	5.8 J Z	12 U	12 U	12 U	12 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	218-01-9	Chrysene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	35 U	11 U	11 U	4.0 J Z	12 U	12 U	12 U	12 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	35 U	11 U	11 U	6.6 J Z	12 U	12 U	12 U	12 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	86-73-7	Fluorene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	91-20-3	Naphthalene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	35 U	11 U	11 U	11 U	12 U	12 U	12 U	12 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	17 U	5.5 U	5.7 U	5.3 U	5.9 U	5.9 U	5.8 U	6.1 U

U - Compound not detected above the reporting limit

J - Result is an estimated value

R - Result is rejected

Sample Name				SL-563-SA5C-SB-4.0-5.0	SL-563-SA5C-SB-9.0-10.0	SL-564-SA5C-SB-0.0-0.5	SL-564-SA5C-SB-4.0-5.0	SL-564-SA5C-SB-9.0-10.0	SL-565-SA5C-SB-0.0-0.5	SL-565-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N
Sample Date				06/01/2012	06/01/2012	06/04/2012	06/04/2012	06/04/2012	06/04/2012	06/04/2012
SDG				12F020	12F020	12F029	12F029	12F029	12F029	12F029
Start Depth				4	9	0	4	9	0	4
End Depth				5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.8 U	5.7 U	12 U	5.7 U	11 U	5.4 U	5.4 U
8270C SIM	120-12-7	Anthracene	µg/kg	12 U	11 U	23 U	11 U	22 U	11 UJ S	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	12 U	11 U	23 U	11 U	22 U	4.1 J S, Z	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	12 U	11 U	23 U	11 U	22 U	11 UJ S	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.8 U	5.7 U	8.8 J Z	5.7 U	7.3 J Z	5.4 UJ S	5.4 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	12 U	11 U	23 U	11 U	22 U	11 UJ S	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	12 U	11 U	23 U	11 U	7.3 J Z	3.0 J S, Z	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	12 U	11 U	23 U	11 U	22 U	4.6 J S, Z	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	12 U	11 U	7.5 J Z	11 U	9.0 J Z	11 UJ S	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	12 U	11 U	23 U	11 U	22 U	11 UJ S	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	12 U	11 U	23 U	11 U	22 U	11 UJ S	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	12 U	11 U	23 U	11 U	6.3 J Z	11 UJ S	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	12 U	11 U	23 U	11 U	22 U	11 UJ S	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	12 U	11 U	23 U	11 U	8.7 J Z	11 UJ S	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	12 U	11 U	23 U	11 U	22 U	11 UJ S	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	12 U	11 U	23 U	11 U	22 U	11 UJ S	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	12 U	11 U	23 U	11 U	6.7 J Z	3.1 J S, Z	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	12 U	11 U	23 U	11 U	22 U	11 UJ S	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	12 U	11 U	23 U	11 U	22 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	12 U	11 U	23 U	11 U	22 U	11 UJ S	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	12 U	11 U	23 U	11 U	22 U	11 UJ S	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.8 U	5.7 U	12 U	5.7 U	11 U	5.4 U	5.4 U

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

				Sample Name	SL-565-SA5C-SB-9.0-10.0	SL-566-SA5C-SB-0.0-0.5	SL-566-SA5C-SB-4.0-5.0	SL-566-SA5C-SB-9.0-10.0	SL-567-SA5C-SB-0.0-0.5	SL-567-SA5C-SB-3.0-4.0	SL-568-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N
				Sample Date	06/04/2012	05/08/2012	06/04/2012	06/04/2012	06/06/2012	06/06/2012	06/06/2012
				SDG	12F029	12E055	12F029	12F029	12F044	12F044	12F044
				Start Depth	9	0	4	9	0	3	0
				End Depth	10	0.5	5	10	0.5	4	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.5 U	11 U	5.5 U	17 U	5.8 U	5.7 U	5.7 U	
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	36	11 U	34 U	12 U	11 U	11 U	
8270C SIM	129-00-0	Pyrene	µg/kg	2.8 J Z	280	11 U	61	12 U	11 U	11 U	
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	96	11 U	20 J Z	12 U	11 U	11 U	
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.5 U	95	5.5 U	47	5.8 U	5.7 U	5.7 U	
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	77	11 U	13 J Z	12 U	11 U	11 U	
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	170	11 U	59	12 U	11 U	11 U	
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	280	11 U	58	12 U	11 U	11 U	
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	63	11 U	31 J Z	12 U	11 U	11 U	
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	22 U	11 U	34 U	12 U	11 U	11 U	
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	130	11 U	38	12 U	11 U	11 U	
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	150	11 U	44	12 U	11 U	11 U	
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	24	11 U	34 U	12 U	11 U	11 U	
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	110	11 U	19 J Z	12 U	11 U	11 U	
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	22 U	11 U	34 U	12 U	11 U	11 U	
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	29	11 U	34 U	12 U	11 U	11 U	
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	190	11 U	38	12 U	11 U	11 U	
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	17 J Z	11 U	34 U	12 U	11 U	11 U	
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	22 U	11 U	34 U	12 U	11 U	11 U	
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	22 U	11 U	34 U	12 U	11 U	11 U	
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	22 U	11 U	34 U	12 U	11 U	11 U	
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.5 U	11 U	5.5 U	17 U	5.8 U	5.7 U	5.7 U	

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

Sample Name				SL-568-SA5C-SB-4.0-5.0	SL-568-SA5C-SB-9.0-10.0	SL-570-SA5C-SB-0.0-0.5	SL-570-SA5C-SB-2.0-3.0	SL-571-SA5C-SB-0.0-0.5	SL-572-SA5C-SB-0.0-0.5	SL-572-SA5C-SB-4.0-5.0	SL-872-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	FD
Sample Date				06/06/2012	06/06/2012	04/18/2012	04/18/2012	04/26/2012	06/19/2012	06/19/2012	06/19/2012
SDG				12F044	12F044	12D165	12D165	12D256	12F132	12F132	12F132
Start Depth				4	9	0	2	0	0	4	4
End Depth				5	10	0.5	3	0.5	0.5	5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.6 U	5.8 U	5.5 U	5.4 U	5.8 U	5.6 U	5.3 U	11 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 U	21 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	12 U	4.3 J S, Z	11 U	12 U	11 U	11 U	21 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 U	21 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.6 U	5.8 U	5.5 UJ S	5.4 U	5.8 U	5.6 U	3.0 J FD, Z	8.2 J FD, Z
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 U	21 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	12 U	3.4 J S, Z	11 U	12 U	11 U	11 UJ FD	6.9 J FD, Z
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	12 U	4.6 J S, Z	11 U	3.1 J Z	11 U	11 U	21 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 UJ FD	6.0 J FD, Z
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 U	21 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 UJ FD	7.3 J FD, Z
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 UJ FD	5.8 J FD, Z
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 U	21 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	3.7 J FD, Z	11 J FD, Z
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 U	21 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 U	21 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	12 U	2.9 J S, Z	11 U	12 U	11 U	3.5 J FD, Z	11 J FD, Z
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 U	21 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	12 U	11 U	11 U	12 U	11 U	11 U	21 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 U	21 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	12 U	11 UJ S	11 U	12 U	11 U	11 U	21 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.6 U	5.8 U	5.5 U	5.4 U	5.8 U	5.6 U	5.3 U	11 U

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

Sample Name				SL-574-SA5C-SB-0.0-0.5	SL-574-SA5C-SB-4.0-5.0	SL-574-SA5C-SB-9.0-10.0	SL-575-SA5C-SB-0.0-0.5	SL-575-SA5C-SB-4.0-5.0	SL-577-SA5C-SB-0.0-0.5	SL-578-SA5C-SB-0.0-0.5	SL-578-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/20/2012	06/11/2012	06/11/2012	04/19/2012	06/25/2012	04/17/2012	04/17/2012	06/27/2012
SDG				12D191	12F071	12F071	12D175	12F182	12D155	12D155	12F215
Start Depth				0	4	9	0	4	0	0	4
End Depth				0.5	5	10	0.5	5	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	12 U	5.5 U	5.7 U	5.9 U	5.5 U	5.9 U	5.7 U	5.5 U
8270C SIM	120-12-7	Anthracene	µg/kg	23 U	11 U	11 U	12 UJ S	11 UJ S	12 U	11 UJ S	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	23 U	11 U	11 U	8.2 J S, Z	11 UJ S	22	11 UJ S	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	23 U	11 U	11 U	3.2 J S, Z	11 UJ S	3.3 J Z	11 UJ S	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	11 J Z	5.5 U	3.8 J Z	3.9 J S, Z	5.5 UJ S	8.3	5.7 UJ S	5.5 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	23 U	11 U	11 U	12 UJ S	11 UJ S	3.3 J Z	11 UJ S	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	8.4 J Z	11 U	11 U	6.1 J S, Z	11 UJ S	16	11 UJ S	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	23 U	11 U	11 U	9.4 J S, Z	11 UJ S	21	3.0 J S, Z	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	23 U	11 U	11 U	12 UJ S	11 UJ S	5.8 J Z	11 UJ S	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	23 U	11 U	11 U	12 UJ S	11 UJ S	12 U	11 UJ S	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	23 U	11 U	11 U	4.5 J S, Z	11 UJ S	11 J Z	11 UJ S	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	23 U	11 U	11 U	3.7 J S, Z	11 UJ S	9.5 J Z	11 UJ S	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	23 U	11 U	11 U	12 UJ S	11 UJ S	12 U	11 UJ S	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	8.0 J Z	11 U	3.0 J Z	12 UJ S	11 UJ S	7.4 J Z	11 UJ S	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	23 U	11 U	11 U	12 UJ S	11 UJ S	12 U	11 UJ S	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	23 U	11 U	11 U	12 UJ S	11 UJ S	12 U	11 UJ S	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	23 U	11 U	11 U	4.0 J S, Z	11 UJ S	6.4 J Z	11 UJ S	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	23 U	11 U	11 U	12 UJ S	11 UJ S	12 U	11 UJ S	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	23 U	11 U	11 U	12 U	11 U	12 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	23 U	11 U	11 U	12 UJ S	11 UJ S	12 U	11 UJ S	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	23 U	11 U	11 U	12 UJ S	11 UJ S	12 U	11 UJ S	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	12 U	5.5 U	5.7 U	5.9 U	5.5 U	5.9 U	5.7 U	5.5 U

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

Sample Name				SL-579-SA5C-SB-0.0-0.5	SL-579-SA5C-SB-4.0-5.0	SL-580-SA5C-SB-0.0-0.5	SL-580-SA5C-SB-4.0-5.0	SL-581-SA5C-SB-0.0-0.5	SL-581-SA5C-SB-4.0-5.0	SL-881-SA5C-SB-4.0-5.0	SL-583-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	FD	N
Sample Date				04/18/2012	04/18/2012	04/18/2012	04/18/2012	04/17/2012	06/26/2012	06/26/2012	07/24/2012
SDG				12D165	12D165	12D165	12D165	12D155	12F197	12F197	12G199
Start Depth				0	4	0	4	0	4	4	0
End Depth				0.5	5	0.5	5	0.5	5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.6 U	5.5 U	5.7 U	5.6 U	17 U	5.6 U	5.6 U	17 U
8270C SIM	120-12-7	Anthracene	µg/kg	15 J S	11 UJ S	6.1 J Z	11 UJ S	34 U	11 U	11 U	33 U
8270C SIM	129-00-0	Pyrene	µg/kg	210 J S	4.5 J S, Z	140	11 UJ S	36	11 U	11 U	33 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	28 J S	11 UJ S	22	11 UJ S	17 J Z	11 U	11 U	11 J Z
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	39 J S	5.5 UJ S	29	5.6 UJ S	60	5.6 U	5.6 U	11 J Z
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	25 J S	11 UJ S	19	11 UJ S	34 U	11 U	11 U	33 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	83 J S	11 UJ S	61	11 UJ S	55	11 U	11 U	33 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	210 J S	4.4 J S, Z	130	11 UJ S	29 J Z	11 U	11 U	33 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	30 J S	11 UJ S	22	11 UJ S	33 J Z	11 U	11 U	11 J Z
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 UJ S	11 UJ S	11 U	11 UJ S	34 U	11 U	11 U	33 U
8270C SIM	218-01-9	Chrysene	µg/kg	88 J S	11 UJ S	64	11 UJ S	46	11 U	11 U	33 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	60 J S	11 UJ S	46	11 UJ S	31 J Z	11 U	11 U	10 J Z
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	8.6 J S, Z	11 UJ S	5.9 J Z	11 UJ S	34 U	11 U	11 U	33 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	74 J S	11 UJ S	57	11 UJ S	34 U	11 U	11 U	33 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 UJ S	11 UJ S	11 U	11 UJ S	34 U	11 U	11 U	33 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	3.3 J S, Z	11 UJ S	11 U	11 UJ S	34 U	11 U	11 U	33 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	100 J S	11 UJ S	38	11 UJ S	34 U	11 U	11 U	9.9 J Z
8270C SIM	86-73-7	Fluorene	µg/kg	11 UJ S	11 UJ S	11 U	11 UJ S	34 U	11 U	11 U	33 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	34 U	11 U	11 U	24 J Z
8270C SIM	91-20-3	Naphthalene	µg/kg	11 UJ S	11 UJ S	11 U	11 UJ S	34 U	11 U	11 U	33 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 UJ S	11 UJ S	11 U	11 UJ S	34 U	11 U	11 U	31 J Z
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.6 U	5.5 U	5.7 U	5.6 U	17 U	5.6 U	5.6 U	17 U

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

Sample Name				SL-583-SA5C-SB-4.0-5.0	SL-584-SA5C-SB-0.0-0.5	SL-584-SA5C-SB-4.0-5.0	SL-585-SA5C-SB-0.0-0.5	SL-585-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-0.0-0.5	SL-586-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				07/24/2012	05/03/2012	06/21/2012	05/02/2012	06/21/2012	05/07/2012	07/11/2012	07/11/2012
SDG				12G199	12E034	12F162	12E018	12F162	12E049	12G064	12G064
Start Depth				4	0	4	0	4	0	4	9
End Depth				5	0.5	5	0.5	5	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	18 U	12 U	5.7 U	11 U	5.2 U	110 U	5.4 U	5.7 U
8270C SIM	120-12-7	Anthracene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	36 U	23 U	11 U	5.8 J Z	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	18 U	12 U	5.7 U	7.5 J Z	5.2 UJ S	110 U	5.4 UJ S	5.7 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	36 U	23 U	11 U	5.9 J Z	10 UJ S	100 J Z	11 UJ S	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	36 U	23 U	11 U	21 U	10 U	220 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	36 U	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	9.6 J Z	23 U	11 U	21 U	10 UJ S	220 U	11 UJ S	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	18 U	12 U	5.7 U	11 U	5.2 U	110 U	5.4 U	5.7 U

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

Sample Name				SL-587-SA5C-SB-0.0-0.5	SL-587-SA5C-SB-4.0-5.0	SL-887-SA5C-SB-4.0-5.0	SL-587-SA5C-SB-8.5-9.5	SL-589-SA5C-SB-0.0-0.5	SL-589-SA5C-SB-4.0-5.0	SL-591-SA5C-SB-0.0-0.5	SL-591-SA5C-SB-4.0-5.0
Sample Type				N	N	FD	N	N	N	N	N
Sample Date				05/02/2012	06/20/2012	06/20/2012	06/20/2012	05/07/2012	07/11/2012	05/02/2012	07/11/2012
SDG				12E018	12F146	12F146	12F146	12E049	12G064	12E018	12G064
Start Depth				0	4	4	8.5	0	4	0	4
End Depth				0.5	5	5	9.5	0.5	5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	17 U	5.7 U	5.7 U	5.6 U	54 U	17 U	17 U	17 U
8270C SIM	120-12-7	Anthracene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	129-00-0	Pyrene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	10 J Z	34 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	17 U	5.7 U	5.7 UJ S	5.6 UJ S	54 U	17 U	12 J Z	9.6 J Z
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	218-01-9	Chrysene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	10 J Z
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	86-73-7	Fluorene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	34 U	11 U	11 U	11 U	110 U	33 U	34 U	34 U
8270C SIM	91-20-3	Naphthalene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	34 U	11 U	11 UJ S	11 UJ S	110 U	33 U	34 U	34 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	17 U	5.7 U	5.7 U	5.6 U	54 U	17 U	17 U	17 U

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

Sample Name				SL-594-SA5C-SB-0.0-0.5	SL-594-SA5C-SB-5.0-6.0	SL-594-SA5C-SB-9.0-10.0	SL-599-SA5C-SB-0.0-0.5	SL-599-SA5C-SB-4.0-5.0	SL-600-SA5C-SB-0.0-0.5	SL-600-SA5C-SB-4.0-5.0	SL-602-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/21/2012	06/21/2012	06/21/2012	05/02/2012	06/21/2012	05/02/2012	06/21/2012	05/02/2012
SDG				12F162	12F162	12F162	12E018	12F162	12E018	12F162	12E034
Start Depth				0	5	9	0	4	0	4	0
End Depth				0.5	6	10	0.5	5	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	11 U	5.8 U	6.1 U	11 U	5.3 U	6.0 U	5.3 U	16 U
8270C SIM	120-12-7	Anthracene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	12 U	11 UJ S	33 U
8270C SIM	129-00-0	Pyrene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	5.7 J Z	11 UJ S	16 J Z
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	23 U	12 U	12 U	6.2 J Z	11 UJ S	5.6 J Z	11 UJ S	9.4 J Z
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	6.9 J Z	5.8 U	6.1 U	6.6 J Z	5.3 UJ S	3.8 J Z	5.3 UJ S	13 J Z
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	12 U	11 UJ S	33 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	4.0 J Z	11 UJ S	20 J Z
8270C SIM	206-44-0	Fluoranthene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	5.8 J Z	11 UJ S	18 J Z
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	12 U	11 UJ S	33 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	12 U	11 UJ S	33 U
8270C SIM	218-01-9	Chrysene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	3.2 J Z	11 UJ S	9.1 J Z
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	3.1 J Z	11 UJ S	9.0 J Z
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	12 U	11 UJ S	33 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	12 U	11 UJ S	33 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	12 U	11 UJ S	33 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	12 U	11 UJ S	33 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	3.3 J Z	11 UJ S	33 U
8270C SIM	86-73-7	Fluorene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	12 U	11 UJ S	33 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	23 U	12 U	12 U	22 U	11 U	12 U	11 U	33 U
8270C SIM	91-20-3	Naphthalene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	12 U	11 UJ S	33 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	23 U	12 U	12 U	22 U	11 UJ S	12 U	11 UJ S	33 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	11 U	5.8 U	6.1 U	11 U	5.3 U	6.0 U	5.3 U	16 U

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

Sample Name				SL-602-SA5C-SB-4.0-5.0	SL-603-SA5C-SB-0.0-0.5	SL-903-SA5C-SB-0.0-0.5	SL-603-SA5C-SB-4.0-5.0	SL-604-SA5C-SB-0.0-0.5	SL-604-SA5C-SB-4.0-5.0	SL-606-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-0.0-0.5
Sample Type				N	N	FD	N	N	N	N	N
Sample Date				06/21/2012	05/03/2012	05/03/2012	06/21/2012	05/02/2012	06/20/2012	05/03/2012	07/11/2012
SDG				12F162	12E034	12E034	12F162	12E018	12F146	12E034	12G064
Start Depth				4	0	0	4	0	4	0	0
End Depth				5	0.5	0.5	5	0.5	5	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.2 U	5.4 U	5.4 U	5.5 U	17 U	5.3 U	16 U	5.6 U
8270C SIM	120-12-7	Anthracene	µg/kg	10 U	11 U	11 U	11 UJ S	34 U	4.2 J S, Z	31 U	11 UJ S
8270C SIM	129-00-0	Pyrene	µg/kg	10 U	10 J Z	11	11 UJ S	34 U	33 J S	12 J Z	11 UJ S
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	10 U	4.3 J Z	6.1 J Z	11 UJ S	17 J Z	6.1 J S, Z	13 J Z	11 UJ S
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.2 U	4.3 J Z	5.4	5.5 UJ S	16 J Z	13 J S	14 J Z	5.6 UJ S
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	10 U	2.9 J Z	4.0 J Z	11 UJ S	34 U	5.6 J S, Z	31 U	11 UJ S
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	10 U	7.7 J Z	8.4 J Z	11 UJ S	34 U	26 J S	19 J Z	11 UJ S
8270C SIM	206-44-0	Fluoranthene	µg/kg	10 U	11	11	11 UJ S	34 U	44 J S	12 J Z	11 UJ S
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	10 U	11 UJ FD	3.1 J FD, Z	11 UJ S	34 U	8.6 J S, Z	31 U	11 UJ S
8270C SIM	208-96-8	Acenaphthylene	µg/kg	10 U	11 U	11 U	11 UJ S	34 U	11 UJ S	31 U	11 UJ S
8270C SIM	218-01-9	Chrysene	µg/kg	10 U	4.7 J Z	5.6 J Z	11 UJ S	34 U	24 J S	8.1 J Z	11 UJ S
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	10 U	5.3 J Z	6.5 J Z	11 UJ S	34 U	16 J S	11 J Z	11 UJ S
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	10 U	11 U	11 U	11 UJ S	34 U	2.7 J S, Z	31 U	11 UJ S
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	10 U	4.2 J Z	5.5 J Z	11 UJ S	34 U	21 J S	8.4 J Z	11 UJ S
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	10 U	11 U	11 U	11 UJ S	34 U	11 UJ S	31 U	11 UJ S
8270C SIM	83-32-9	Acenaphthene	µg/kg	10 U	11 U	11 U	11 UJ S	34 U	11 UJ S	31 U	11 UJ S
8270C SIM	85-01-8	Phenanthrene	µg/kg	10 U	4.8 J Z	4.9 J Z	11 UJ S	34 U	27 J S	31 U	11 UJ S
8270C SIM	86-73-7	Fluorene	µg/kg	10 U	11 U	11 U	11 UJ S	34 U	11 UJ S	31 U	11 UJ S
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	10 U	11 U	11 U	11 U	34 U	11 U	31 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	10 U	11 U	11 U	11 UJ S	34 U	11 UJ S	31 U	11 UJ S
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	10 U	11 U	11 U	11 UJ S	34 U	11 UJ S	31 U	11 UJ S
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.2 U	5.4 U	5.4 U	5.5 U	17 U	5.3 U	16 U	5.6 U

U - Compound not detected above the reporting limit

J - Result is an estimated value

R - Result is rejected

Sample Name				SL-607-SA5C-SB-4.0-5.0	SL-607-SA5C-SB-9.0-10.0	SL-611-SA5C-SB-0.0-0.5	SL-611-SA5C-SB-5.0-6.0	SL-612-SA5C-SB-0.0-0.5	SL-612-SA5C-SB-4.0-5.0	SL-912-SA5C-SB-4.0-5.0	SL-612-SA5C-SB-7.0-8.0
Sample Type				N	N	N	N	N	N	FD	N
Sample Date				07/11/2012	07/11/2012	05/31/2012	05/31/2012	05/03/2012	05/31/2012	05/31/2012	05/31/2012
SDG				12G064	12G064	12E267	12E267	12E034	12E267	12E267	12E267
Start Depth				4	9	0	5	0	4	4	7
End Depth				5	10	0.5	6	0.5	5	5	8
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.7 U	5.6 U	5.5 U	5.6 U	11 U	5.4 U	5.3 U	5.6 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	21 U	11 U	11 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	12 J Z	20 J FD	11 UJ FD	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	6.3 J Z	5.5 J FD, Z	11 UJ FD	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.7 UJ S	5.6 UJ S	5.5 U	5.6 U	6.8 J Z	5.8 J FD	5.3 UJ FD	5.6 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	21 U	4.5 J FD, Z	11 UJ FD	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	11 J Z	11 J FD	11 UJ FD	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	13 J Z	21 J FD	11 UJ FD	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	21 U	4.2 J FD, Z	11 UJ FD	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	21 U	11 U	11 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	6.4 J Z	10 J FD, Z	11 UJ FD	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	7.4 J Z	9.2 J FD, Z	11 UJ FD	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	21 U	11 U	11 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	3.8 J S, Z	11 UJ S	11 U	11 U	21 U	8.3 J FD, Z	11 UJ FD	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 UJ S	11 UJ S	11 U	11 U	21 U	11 U	11 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	21 U	11 U	11 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	21 U	15 J FD	11 UJ FD	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	21 U	11 U	11 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	21 U	11 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	21 U	11 U	11 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 UJ S	11 UJ S	11 U	11 U	21 U	11 U	11 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.7 U	5.6 U	5.5 U	5.6 U	11 U	5.4 U	5.3 U	5.6 U

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

Sample Name				SL-613-SA5C-SB-0.0-0.5	SL-615-SA5C-SB-0.0-0.5	SL-615-SA5C-SB-4.0-5.0	SL-615-SA5C-SB-9.0-10.0	SL-620-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N
Sample Date				05/09/2012	05/07/2012	06/05/2012	06/05/2012	05/29/2012	04/25/2012	07/09/2012
SDG				12E067	12E049	12F037	12F037	12E229	12D231	12G030
Start Depth				0	0	4	9	0	0	4
End Depth				0.5	0.5	5	10	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.2 U	56 U	5.8 U	5.5 U	16 U	5.4 U	5.5 U
8270C SIM	120-12-7	Anthracene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	11 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	3.1 J Z	41 J Z	12 UJ S	11 UJ S	32 U	39	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	10 U	29 J Z	12 UJ S	11 UJ S	32 U	10 J Z	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.2 U	56 U	5.8 UJ S	5.5 UJ S	16 U	28	5.5 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	7.1 J Z	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	3.5 J Z	43 J Z	12 UJ S	11 UJ S	32 U	37	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	3.0 J Z	46 J Z	12 UJ S	11 UJ S	32 U	44	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	14	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	11 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	27	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	27	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	2.9 J Z	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	23	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	11 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	11 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	17	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	11 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	10 U	110 U	12 U	11 U	32 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	11 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	10 U	110 U	12 UJ S	11 UJ S	32 U	11 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.2 U	56 U	5.8 U	5.5 U	16 U	5.4 U	5.5 U

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

				Sample Name	SL-623-SA5C-SB-9.0-10.0	SL-628-SA5C-SB-11.5-12.5	SL-630-SA5C-SB-8.0-9.0	SL-640-SA5C-SB-5.0-6.0	SL-640-SA5C-SB-10.0-11.0	SL-640-SA5C-SB-15.0-16.0	SL-640-SA5C-SB-19.0-20.0
				Sample Type	N	N	N	N	N	N	N
				Sample Date	07/09/2012	06/20/2012	06/20/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
				SDG	12G030	12F146	12F146	12G048	12G048	12G048	12G048
				Start Depth	9	11.5	8	5	10	15	19
				End Depth	10	12.5	9	6	11	16	20
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.3 U	5.5 U	11 U	5.6 U	5.6 U	5.9 U	6.0 U	
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.3 U	5.5 UJ S	11 UJ S	5.6 U	5.6 U	5.9 U	6.0 U	
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	22 U	11 U	11 U	12 U	12 U	
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 UJ S	22 UJ S	11 U	11 U	12 U	12 U	
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.3 U	5.5 U	11 U	5.6 U	5.6 U	5.9 U	6.0 U	

U - Compound not detected above the reporting limit

J - Result is an estimated value

R - Result is rejected

Sample Name				SL-641-SA5C-SB-4.0-5.0	SL-641-SA5C-SB-9.0-10.0	SL-641-SA5C-SB-14.0-15.0	SL-641-SA5C-SB-18.5-19.5	SL-642-SA5C-SB-4.0-5.0	SL-642-SA5C-SB-9.0-10.0	SL-642-SA5C-SB-14.0-15.0
Sample Type				N	N	N	N	N	N	N
Sample Date				07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
SDG				12G048	12G048	12G048	12G048	12G048	12G048	12G048
Start Depth				4	9	14	18.5	4	9	14
End Depth				5	10	15	19.5	5	10	15
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.6 U	5.5 U	5.8 U	5.9 U	5.6 U	5.6 U	5.8 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.6 U	5.5 U	5.8 U	5.9 U	5.6 U	5.6 U	5.8 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	12 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.6 U	5.5 U	5.8 U	5.9 U	5.6 U	5.6 U	5.8 U

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

				Sample Name	SL-642-SA5C-SB-17.5-18.5	SL-670-SA5C-SB-0.0-0.5	SL-670-SA5C-SB-4.0-5.0	SL-671-SA5C-SB-0.0-0.5	SL-671-SA5C-SB-2.0-3.0	SL-672-SA5C-SB-0.0-0.5	SL-672-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N
				Sample Date	07/10/2012	06/19/2012	06/19/2012	05/08/2012	05/23/2012	05/24/2012	05/24/2012
				SDG	12G048	12F132	12F132	12E055	12E187	12E204	12E204
				Start Depth	17.5	0	4	0	2	0	4
				End Depth	18.5	0.5	5	0.5	3	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.5 U	5.6 U	11 U	11 U	11 U	5.6 U	5.6 U	5.9 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	12 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	21 U	21 U	10 J Z	11 U	11 U	3.5 J Z
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	21 U	21 U	6.3 J Z	11 U	11 U	4.7 J Z
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.5 U	5.6 U	7.6 J Z	7.9 J Z	7.9 J Z	5.6 U	5.6 U	11
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	12 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 U	21 U	21 U	11 J Z	11 U	11 U	7.6 J Z
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	21 U	21 U	10 J Z	11 U	11 U	12 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	12 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	12 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	4.1 J Z
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	21 U	21 U	8.0 J Z	11 U	11 U	12 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	12 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	5.8 J Z	21 U	21 U	11 U	11 U	8.1 J Z
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	12 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	12 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	5.0 J Z
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	12 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	12 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	12 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	21 U	21 U	21 U	11 U	11 U	12 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.5 U	5.6 U	11 U	11 U	11 U	5.6 U	5.6 U	5.9 U

U - Compound not detected above the reporting limit

J - Result is an estimated value

R - Result is rejected

Sample Name				SL-673-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-2.5-3.5	SL-675-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-4.0-5.0	SL-976-SA5C-SB-4.0-5.0	SL-677-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	FD	N
Sample Date				05/08/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/24/2012
SDG				12E055	12E187	12E187	12E187	12E187	12E187	12E187	12E204
Start Depth				0	0	2.5	0	0	4	4	0
End Depth				0.5	0.5	3.5	0.5	0.5	5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.5 U	5.5 U	5.5 U	5.3 U	5.7 U	5.7 U	5.6 U	5.8 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	129-00-0	Pyrene	µg/kg	7.1 J Z	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	4.1 J Z	11 U	11 U	11 U	3.1 J Z	11 U	11 U	12 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	4.3 J Z	5.5 U	5.5 U	3.3 J Z	6.2	2.8 J Z	5.6 U	5.8 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	6.5 J Z	11 U	11 U	11 U	4.0 J Z	11 U	11 U	12 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	7.7 J Z	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	218-01-9	Chrysene	µg/kg	4.2 J Z	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	3.4 J Z	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	11 U	11 U	2.9 J Z	11 U	11 U	12 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	3.3 J Z	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U	12 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.5 U	5.5 U	5.5 U	5.3 U	5.7 U	5.7 U	5.6 U	5.8 U

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

Sample Name				SL-677-SA5C-SB-4.0-5.0	SL-678-SA5C-SB-0.0-0.5	SL-678-SA5C-SB-2.5-3.5	SL-679-SA5C-SB-0.0-0.5	SL-680-SA5C-SB-0.0-0.5	SL-681-SA5C-SB-0.0-0.5	SL-681-SA5C-SB-4.0-5.0	SL-681-SA5C-SB-7.5-8.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/24/2012	05/23/2012	05/23/2012	04/12/2012	04/17/2012	04/12/2012	05/23/2012	05/23/2012
SDG				12E204	12E187	12E187	12D121	12D155	12D121	12E187	12E187
Start Depth				4	0	2.5	0	0	0	4	7.5
End Depth				5	0.5	3.5	0.5	0.5	0.5	5	8.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.7 U	5.5 U	5.5 U	5.5 U	5.8 U	11 U	5.6 U	5.5 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	11 U	11 UJ S	12 UJ S	22 U	11 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	11 U	11 UJ S	15 J S	22 U	11 U	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	11 U	11 UJ S	3.8 J S, Z	7.2 J Z	11 U	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	4.0 J Z	5.5	5.5 U	5.5 UJ S	8.4 J S	13	5.6 U	5.5 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	11 U	11 UJ S	3.5 J S, Z	22 U	11 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	3.7 J Z	11 U	11 UJ S	13 J S	22 U	11 U	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	11 U	11 UJ S	17 J S	22 U	11 U	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	11 U	11 UJ S	4.4 J S, Z	22 U	11 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 U	11 UJ S	12 UJ S	22 U	11 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	11 U	11 UJ S	7.7 J S, Z	22 U	11 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	11 U	11 UJ S	7.5 J S, Z	22 U	11 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	11 U	11 UJ S	12 UJ S	22 U	11 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	3.2 J Z	11 U	11 UJ S	4.7 J S, Z	8.2 J Z	11 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	11 U	11 UJ S	12 UJ S	22 U	11 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	11 U	11 UJ S	12 UJ S	22 U	11 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	11 U	11 UJ S	7.7 J S, Z	22 U	11 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	11 U	11 UJ S	12 UJ S	22 U	11 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	12 U	22 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 U	11 UJ S	12 UJ S	22 U	11 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 UJ S	12 UJ S	22 U	11 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.7 U	5.5 U	5.5 U	5.5 U	5.8 U	11 U	5.6 U	5.5 U

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

Sample Name				SL-682-SA5C-SB-0.0-0.5	SL-682-SA5C-SB-4.0-5.0	SL-682-SA5C-SB-9.0-10.0	SL-683-SA5C-SB-0.0-0.5	SL-683-SA5C-SB-4.0-5.0	SL-683-SA5C-SB-7.0-8.0	SL-684-SA5C-SB-0.0-0.5	SL-684-SA5C-SB-2.5-3.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/22/2012	05/22/2012	05/22/2012	04/12/2012	06/13/2012	06/13/2012	04/12/2012	06/13/2012
SDG				12E169	12E169	12E169	12D121	12F093	12F093	12D121	12F093
Start Depth				0	4	9	0	4	7	0	2.5
End Depth				0.5	5	10	0.5	5	8	0.5	3.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.6 U	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.9 U	5.4 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	11 U	4.1 J Z	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	3.5 J Z	5.7 U	5.7 U	3.9 J Z	5.3 U	5.5 U	5.9 UJ S	5.4 UJ S
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 U	11 U	5.2 J Z	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	11 U	4.1 J Z	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	11 U	3.2 J Z	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	11 U	3.1 J Z	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	11 U	3.2 J Z	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 UJ S	11 UJ S
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.6 U	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U	5.9 U	5.4 U

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

Sample Name				SL-685-SA5C-SB-0.0-0.5	SL-685-SA5C-SB-4.0-5.0	SL-685-SA5C-SB-7.0-8.0	SL-686-SA5C-SB-0.0-0.5	SL-686-SA5C-SB-4.0-5.0	SL-686-SA5C-SB-9.0-10.0	SL-687-SA5C-SB-0.0-0.5	SL-687-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/12/2012	06/13/2012	06/13/2012	04/12/2012	05/17/2012	05/17/2012	04/16/2012	06/12/2012
SDG				12D121	12F093	12F093	12D121	12E134	12E134	12D147	12F074
Start Depth				0	4	7	0	4	9	0	4
End Depth				0.5	5	8	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.5 U	5.4 U	5.7 U	5.5 U	5.5 U	5.5 U	5.8 U	5.4 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 UJ S	11 U	11 U	11 UJ S	11 U	11 U	12 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 UJ S	11 U	11 U	22 J S	11 U	11 U	12 U	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 UJ S	11 U	11 U	4.8 J S, Z	11 U	11 U	12 U	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.5 UJ S	5.4 U	5.7 U	7.2 J S	5.5 U	5.5 U	5.8 U	5.4 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 UJ S	11 U	11 U	5.0 J S, Z	11 U	11 U	12 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 UJ S	11 U	11 U	14 J S	11 U	11 U	12 U	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 UJ S	11 U	11 U	23 J S	11 U	11 U	12 U	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 UJ S	11 U	11 U	4.6 J S, Z	11 U	11 U	12 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 UJ S	11 U	11 U	11 UJ S	11 U	11 U	12 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 UJ S	11 U	11 U	12 J S	11 U	11 U	12 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 UJ S	11 U	11 U	11 J S	11 U	11 U	12 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 UJ S	11 U	11 U	11 UJ S	11 U	11 U	12 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 UJ S	11 U	11 U	11 J S	11 U	11 U	12 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 UJ S	11 U	11 U	11 UJ S	11 U	11 U	12 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 UJ S	11 U	11 U	11 UJ S	11 U	11 U	12 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 UJ S	11 U	11 U	10 J S, Z	11 U	11 U	12 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 UJ S	11 U	11 U	11 UJ S	11 U	11 U	12 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	12 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 UJ S	11 U	11 U	11 UJ S	11 U	11 U	12 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 UJ S	11 U	11 U	11 UJ S	11 U	11 U	12 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.5 U	5.4 U	5.7 U	5.5 U	5.5 U	5.5 U	5.8 U	5.4 U

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

Sample Name				SL-688-SA5C-SB-0.0-0.5	SL-688-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-9.0-10.0	SL-689-SA5C-SB-0.0-0.5	SL-689-SA5C-SB-4.0-5.0	SL-689-SA5C-SB-7.5-8.5	SL-690-SA5C-SB-0.0-0.5	SL-690-SA5C-SB-3.5-4.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/16/2012	06/12/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012	04/16/2012	06/12/2012
SDG				12D147	12F074	12F074	12D147	12F074	12F074	12D147	12F074
Start Depth				0	4	9	0	4	7.5	0	3.5
End Depth				0.5	5	10	0.5	5	8.5	0.5	4.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	11 U	5.6 U	5.6 U	6.0 U	5.5 U	5.5 U	17 U	5.4 U
8270C SIM	120-12-7	Anthracene	µg/kg	22 U	11 U	11 U	12 U	11 U	11 U	35 U	11 UJ S
8270C SIM	129-00-0	Pyrene	µg/kg	9.3 J Z	11 U	11 U	12 U	11 U	11 U	14 J Z	11 UJ S
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	7.2 J Z	11 U	11 U	12 U	11 U	11 U	35 U	11 UJ S
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	15	5.6 U	5.6 U	6.0 U	5.5 U	5.5 U	21	5.4 UJ S
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	22 U	11 U	11 U	12 U	11 U	11 U	35 U	11 UJ S
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	18 J Z	11 U	11 U	12 U	11 U	11 U	25 J Z	11 UJ S
8270C SIM	206-44-0	Fluoranthene	µg/kg	7.0 J Z	11 U	11 U	12 U	11 U	11 U	16 J Z	11 UJ S
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	9.3 J Z	11 U	11 U	12 U	11 U	11 U	11 J Z	11 UJ S
8270C SIM	208-96-8	Acenaphthylene	µg/kg	22 U	11 U	11 U	12 U	11 U	11 U	35 U	11 UJ S
8270C SIM	218-01-9	Chrysene	µg/kg	9.4 J Z	11 U	11 U	12 U	11 U	11 U	14 J Z	11 UJ S
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	13 J Z	11 U	11 U	12 U	11 U	11 U	12 J Z	11 UJ S
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	22 U	11 U	11 U	12 U	11 U	11 U	35 U	11 UJ S
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	22 U	11 U	11 U	12 U	11 U	11 U	35 U	11 UJ S
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	22 U	11 U	11 U	12 U	11 U	11 U	35 U	11 UJ S
8270C SIM	83-32-9	Acenaphthene	µg/kg	22 U	11 U	11 U	12 U	11 U	11 U	35 U	11 UJ S
8270C SIM	85-01-8	Phenanthrene	µg/kg	22 U	11 U	11 U	12 U	11 U	11 U	35 U	11 UJ S
8270C SIM	86-73-7	Fluorene	µg/kg	22 U	11 U	11 U	12 U	11 U	11 U	35 U	11 UJ S
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	22 U	11 U	11 U	12 U	11 U	11 U	35 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	22 U	11 U	11 U	12 U	11 U	11 U	35 U	11 UJ S
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	22 U	11 U	11 U	12 U	11 U	11 U	35 U	11 UJ S
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	11 U	5.6 U	5.6 U	6.0 U	5.5 U	5.5 U	17 U	5.4 U

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

Sample Name				SL-691-SA5C-SB-0.0-0.5	SL-692-SA5C-SB-0.0-0.5	SL-692-SA5C-SB-5.0-6.0	SL-693-SA5C-SB-0.0-0.5	SL-693-SA5C-SB-4.0-5.0	SL-693-SA5C-SB-9.0-10.0	SL-694-SA5C-SB-0.0-0.5	SL-694-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/16/2012	04/16/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012	05/24/2012	05/24/2012
SDG				12D147	12D147	12F074	12D147	12F074	12F074	12E204	12E204
Start Depth				0	0	5	0	4	9	0	4
End Depth				0.5	0.5	6	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.6 U	6.0 U	5.4 U	6.0 U	5.5 U	11 U	5.8 U	5.5 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	30	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	4.8 J Z	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	17	6.0 UJ S	5.4 U	6.0 U	5.5 UJ S	11 U	5.8 U	5.5 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	4.3 J Z	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	35	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	34	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	10 J Z	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	28	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	10 J Z	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	8.5 J Z	12 UJ S	11 U	12 U	11 UJ S	5.6 J Z	12 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	3.9 J Z	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	12 U	11 U	12 U	11 U	22 U	12 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	12 UJ S	11 U	12 U	11 UJ S	22 U	12 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.6 U	6.0 U	5.4 U	6.0 U	5.5 U	11 U	5.8 U	5.5 U

U - Compound not detected above the reporting limit

J - Result is an estimated value

R - Result is rejected

				Sample Name	SL-694-SA5C-SB-9.0-10.0	SL-695-SA5C-SB-0.0-0.5	SL-995-SA5C-SB-0.0-0.5	SL-695-SA5C-SB-4.0-5.0	SL-695-SA5C-SB-9.0-10.0	SL-698-SA5C-SB-0.0-0.5	SL-698-SA5C-SB-4.0-5.0
				Sample Type	N	N	FD	N	N	N	N
				Sample Date	05/24/2012	04/26/2012	04/26/2012	05/16/2012	05/16/2012	04/25/2012	05/16/2012
				SDG	12E204	12D256	12D256	12E116	12E116	12D231	12E116
				Start Depth	9	0	0	4	9	0	4
				End Depth	10	0.5	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.7 U	5.4 U	5.4 U	5.4 U	5.4 U	5.8 U	11 U	5.6 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	22 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	14 J Z	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	12 J Z	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.7 U	5.4 U	5.4 U	5.4 U	5.4 U	5.8 U	26	5.6 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	7.1 J Z	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	23	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	19 J Z	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	18 J Z	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	22 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	8.1 J Z	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	18 J Z	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	5.5 J Z	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	6.6 J Z	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	22 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	22 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	22 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	22 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	22 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	22 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	12 U	22 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.7 U	5.4 U	5.4 U	5.4 U	5.4 U	5.8 U	11 U	5.6 U

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

Sample Name				SL-698-SA5C-SB-9.0-10.0	SL-699-SA5C-SB-0.0-0.5	SL-699-SA5C-SB-4.0-5.0	SL-699-SA5C-SB-9.0-10.0	SL-701-SA5C-SB-0.0-0.5	SL-701-SA5C-SB-4.0-5.0	SL-701-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N
Sample Date				05/16/2012	04/25/2012	06/18/2012	06/18/2012	04/26/2012	06/18/2012	06/18/2012
SDG				12E116	12D231	12F120	12F120	12D256	12F120	12F120
Start Depth				9	0	4	9	0	4	9
End Depth				10	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.4 U	11 U	5.7 U	5.7 U	5.3 U	5.6 U	5.5 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 J Z	11 U	11 U	11 U	11 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	180	11 U	11 U	11 U	11 U	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	34	11 U	11 U	11 U	11 U	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.4 U	110	5.7 U	5.7 U	5.3 U	5.6 U	5.5 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	31	11 U	11 U	11 U	11 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	220	11 U	11 U	11 U	11 U	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	230	11 U	11 U	11 U	11 U	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	73	11 U	11 U	11 U	11 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	92	11 U	11 U	11 U	11 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	120	11 U	11 U	11 U	11 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 J Z	11 U	11 U	11 U	11 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	100	11 U	11 U	11 U	11 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	39	11 U	11 U	11 U	11 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.4 U	11 U	5.7 U	5.7 U	5.3 U	5.6 U	5.5 U

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

Sample Name				SL-703-SA5C-SB-0.0-0.5	SL-703-SA5C-SB-4.0-5.0	SL-703-SA5C-SB-9.0-10.0	SL-704-SA5C-SB-0.0-0.5	SL-704-SA5C-SB-4.0-5.0	SL-704-SA5C-SB-9.0-10.0	SL-705-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N
Sample Date				04/26/2012	06/18/2012	06/18/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012
SDG				12D256	12F120	12F120	12E204	12E204	12E204	12E204
Start Depth				0	4	9	0	4	9	0
End Depth				0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	11 U	5.6 U	5.7 U	11 U	12 U	5.6 U	5.7 U
8270C SIM	120-12-7	Anthracene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	7.0 J Z	11 U	11 U	22 U	8.7 J Z	11 U	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	7.4 J Z	5.6 U	5.7 U	9.0 J Z	16	5.6 U	5.7 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	5.9 J Z	11 U	11 U	22 U	10 J Z	11 U	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	22 U	11 U	11 U	22 U	6.4 J Z	11 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	22 U	11 U	11 U	22 U	9.1 J Z	11 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	22 U	11 U	11 U	22 U	23 U	11 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	11 U	5.6 U	5.7 U	11 U	12 U	5.6 U	5.7 U

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

Sample Name				SL-705-SA5C-SB-4.0-5.0	SL-705-SA5C-SB-9.0-10.0	SL-706-SA5C-SB-0.0-0.5	SL-706-SA5C-SB-4.0-5.0	SL-706-SA5C-SB-9.0-10.0	SL-707-SA5C-SB-13.0-14.0	SL-711-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N
Sample Date				05/24/2012	05/24/2012	05/29/2012	05/29/2012	05/29/2012	06/14/2012	04/26/2012
SDG				12E204	12E204	12E229	12E229	12E229	12F102	12D256
Start Depth				4	9	0	4	9	13	0
End Depth				5	10	0.5	5	10	14	0.5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.6 U	5.7 U	16 U	5.5 U	11 U	5.5 U	5.3 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	32 U	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	32	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	11 J Z	11 UJ S	22 UJ S	11 U	3.0 J Z
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	4.2 J Z	5.7 U	28	5.5 UJ S	11 UJ S	5.5 U	3.0 J Z
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	32 U	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 U	37	11 UJ S	22 UJ S	11 U	3.8 J Z
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	32	11 UJ S	22 UJ S	11 U	2.7 J Z
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	21 J Z	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	32 U	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	33	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	22 J Z	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	32 U	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	14 J Z	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	32 U	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	32 U	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	32 U	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	32 U	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	32 U	11 U	22 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	32 U	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	32 U	11 UJ S	22 UJ S	11 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.6 U	5.7 U	16 U	5.5 U	11 U	5.5 UJ Q	5.3 U

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

Sample Name				SL-711-SA5C-SB-4.0-5.0	SL-711-SA5C-SB-9.0-10.0	SL-712-SA5C-SB-0.0-0.5	SL-712-SA5C-SB-4.0-5.0	SL-712-SA5C-SB-9.0-10.0	SL-713-SA5C-SB-0.0-0.5	SL-713-SA5C-SB-6.0-7.0
Sample Type				N	N	N	N	N	N	N
Sample Date				06/14/2012	06/14/2012	04/30/2012	06/14/2012	06/14/2012	04/30/2012	06/14/2012
SDG				12F102	12F102	12D275	12F102	12F102	12D275	12F102
Start Depth				4	9	0	4	9	0	6
End Depth				5	10	0.5	5	10	0.5	7
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.6 U	5.4 U	5.3 U	5.6 U	5.6 U	5.4 U	5.4 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.6 U	5.4 U	5.3 U	5.6 U	5.6 U	5.4 U	5.4 UJ S
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	11 U	11 UJ S
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.6 U	5.4 U	5.3 U	5.6 U	5.6 U	5.4 U	5.4 U

U - Compound not detected above the reporting limit  
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R - Result is rejected

Sample Name				SL-715-SA5C-SB-0.0-0.5	SL-715-SA5C-SB-6.0-7.0	SL-720-SA5C-SB-0.0-0.5	SL-720-SA5C-SB-4.5-5.5	SL-1022-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-6.0-7.0	SL-723-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	FD	N	N	N
Sample Date				04/30/2012	06/14/2012	04/30/2012	06/13/2012	05/01/2012	05/01/2012	06/13/2012	05/29/2012
SDG				12D275	12F102	12D275	12F093	12E004	12E004	12F093	12E229
Start Depth				0	6	0	4.5	0	0	6	0
End Depth				0.5	7	0.5	5.5	0.5	0.5	7	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.3 U	5.3 U	5.3 U	5.6 U	5.2 U	5.2 U	5.5 U	11 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	21 UJ S
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	9.4 J S, Z
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	21 UJ S
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.3 U	5.3 U	5.3 U	5.6 U	5.2 U	5.2 U	5.5 U	7.0 J S, Z
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	21 UJ S
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	16 J S, Z
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	11 J S, Z
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	17 J S, Z
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	21 UJ S
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	10 J S, Z
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	6.4 J S, Z
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	21 UJ S
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	6.0 J S, Z
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	21 UJ S
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	21 UJ S
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	21 UJ S
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	21 UJ S
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	21 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	21 UJ S
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	10 U	10 U	11 U	21 UJ S
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.3 U	5.3 U	5.3 U	5.6 U	5.2 U	5.2 U	5.5 U	11 U

U - Compound not detected above the reporting limit

J - Result is an estimated value

R - Result is rejected

Sample Name				SL-723-SA5C-SB-4.0-5.0	SL-723-SA5C-SB-9.0-10.0	SL-724-SA5C-SB-0.0-0.5	SL-724-SA5C-SB-4.0-5.0	SL-724-SA5C-SB-9.0-10.0	SL-727-SA5C-SB-0.0-0.5	SL-1027-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	FD
Sample Date				05/29/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012	05/21/2012	05/21/2012
SDG				12E229	12E229	12E229	12E229	12E229	12E155	12E155
Start Depth				4	9	0	4	9	0	4
End Depth				5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.6 U	5.4 U	5.8 U	5.8 U	5.7 U	5.5 U	5.7 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	7.7 J Z	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.6 U	5.4 UJ S	5.8 U	5.8 U	5.7 UJ S	3.8 J Z	3.9 J Z
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 UJ S	12 U	12 U	5.5 J S, Z	11 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	12 U	12 U	11 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 UJ S	12 U	12 U	11 UJ S	11 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.6 U	5.4 U	5.8 U	5.8 U	5.7 U	5.5 U	5.7 U

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

Sample Name				SL-727-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-9.0-10.0	SL-730-SA5C-SB-0.0-0.5	SL-730-SA5C-SB-4.0-5.0	SL-730-SA5C-SB-9.0-10.0	SL-731-SA5C-SB-0.0-0.5	SL-731-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N
Sample Date				05/21/2012	05/21/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012
SDG				12E155	12E155	12E169	12E169	12E169	12E169	12E169
Start Depth				4	9	0	4	9	0	4
End Depth				5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.7 U	11 U	5.5 U	5.6 U	5.7 U	5.5 U	5.7 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	7.4 J Z	11 U	11 U	11 U	11 U	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	10 J Z	11 U	11 U	3.3 J Z	3.3 J Z	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	2.9 J Z	21	5.5 U	5.6 U	4.5 J Z	3.7 J Z	5.7 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	22 U	11 U	11 U	3.4 J Z	11 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	10 J Z	11 U	11 U	11 U	11 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	22 U	11 U	11 U	11 U	11 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.7 U	11 U	5.5 U	5.6 U	5.7 U	5.5 U	5.7 U

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R - Result is rejected

Sample Name				SL-731-SA5C-SB-9.0-10.0	SL-732-SA5C-SB-5.0-6.0	SL-732-SA5C-SB-10.5-11.5	SL-733-SA5C-SB-0.0-0.5	SL-733-SA5C-SB-4.0-5.0	SL-733-SA5C-SB-9.0-10.0	SL-734-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N
Sample Date				05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/21/2012
SDG				12E169	12E169	12E169	12E169	12E169	12E169	12E155
Start Depth				9	5	10.5	0	4	9	0
End Depth				10	6	11.5	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	11 U	5.6 U	5.4 U	11 U	5.5 U	5.6 U	5.5 U
8270C SIM	120-12-7	Anthracene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	22 U	11 U	11 U	5.7 J Z	11 U	11 U	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	8.8 J Z	11 U	11 U	6.0 J Z	11 U	11 U	3.9 J Z
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	12	5.6 U	5.4 U	7.6 J Z	5.5 U	5.6 U	5.2 J Z
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	5.7 J Z	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	5.8 J Z	11 U	11 U	22 U	11 U	11 U	3.1 J Z
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	6.6 J Z	11 U	11 U	22 U	11 U	11 U	3.5 J Z
8270C SIM	86-73-7	Fluorene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	22 U	11 U	11 U	22 U	11 U	11 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	11 U	5.6 U	5.4 U	11 U	5.5 U	5.6 U	5.5 U

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

Sample Name				SL-734-SA5C-SB-4.0-5.0	SL-734-SA5C-SB-9.0-10.0	SL-739-SA5C-SB-0.0-0.5	SL-739-SA5C-SB-4.0-5.0	SL-739-SA5C-SB-9.0-10.0	SL-741-SA5C-SB-0.0-0.5	SL-741-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N
Sample Date				05/21/2012	05/21/2012	05/17/2012	05/17/2012	05/17/2012	07/24/2012	07/24/2012
SDG				12E155	12E155	12E134	12E134	12E134	12G199	12G199
Start Depth				4	9	0	4	9	0	4
End Depth				5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	5.7 U	5.6 U	5.4 U	5.6 U	5.5 U	17 U	5.6 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	4.3 J Z	11 U	11 U	11 U	33 U	11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	4.3 J Z	11 U	11 U	11 U	33 U	11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.6 J Z	9.7	5.4 U	5.6 U	5.5 U	17 U	5.6 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	7.0 J Z	11 U	11 U	11 U	33 U	11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	5.5 J Z	11 U	11 U	11 U	33 U	11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	5.1 J Z	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	4.9 J Z	12	11 U	11 U	11 U	33 U	11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 U	11 U	11 U	33 U	11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.7 U	5.6 U	5.4 U	5.6 U	5.5 U	17 U	5.6 U

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R - Result is rejected

Sample Name				SL-741-SA5C-SB-9.0-10.0	SL-742-SA5C-SB-0.0-0.5	SL-743-SA5C-SB-1.0-2.0	SL-743-SA5C-SB-4.0-5.0	SL-743-SA5C-SB-9.0-10.0	SL-743-SA5C-SB-14.0-15.0	SL-747-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N
Sample Date				07/24/2012	07/24/2012	06/12/2012	06/12/2012	06/12/2012	06/12/2012	04/17/2012
SDG				12G199	12G199	12F074	12F074	12F074	12F074	12D155
Start Depth				9	0	1	4	9	14	0
End Depth				10	0.5	2	5	10	15	0.5
Analytic Method	CAS Number	Chemical Name	Unit							
8270C SIM	103-33-3	Azobenzene	µg/kg	17 U	16 U	5.5 U	5.6 U	5.5 U	5.1 U	5.9 U
8270C SIM	120-12-7	Anthracene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	12 U
8270C SIM	129-00-0	Pyrene	µg/kg	34 U	8.9 J Z	11 UJ S	11 U	11 U	10 UJ S	23
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	4.7 J Z
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	17 U	16 U	5.5 UJ S	5.6 U	5.5 U	5.1 UJ S	11
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	3.9 J Z
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	18
8270C SIM	206-44-0	Fluoranthene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	24
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	6.5 J Z
8270C SIM	208-96-8	Acenaphthylene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	12 U
8270C SIM	218-01-9	Chrysene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	11 J Z
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	12
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	12 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	8.4 J Z
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	12 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	12 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	34 U	15 J Z	11 UJ S	11 U	11 U	10 UJ S	9.8 J Z
8270C SIM	86-73-7	Fluorene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	12 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	34 U	33 U	11 U	11 U	11 U	10 U	12 U
8270C SIM	91-20-3	Naphthalene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	12 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	34 U	33 U	11 UJ S	11 U	11 U	10 UJ S	12 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	17 U	16 U	5.5 U	5.6 U	5.5 U	5.1 U	5.9 U

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R - Result is rejected

Sample Name				SL-747-SA5C-SB-2.5-3.5	SL-750-SA5C-SB-0.0-0.5	SL-750-SA5C-SB-5.5-6.5	SL-752-SA5C-SB-0.0-0.5	SL-754-SA5C-SB-0.0-0.5	SL-754-SA5C-SB-4.0-5.0	SL-754-SA5C-SB-6.5-7.5	SL-755-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/26/2012	05/29/2012	05/29/2012	05/30/2012	07/09/2012	07/09/2012	07/09/2012	07/10/2012
SDG				12F197	12E229	12E229	12E244	12G030	12G030	12G030	12G048
Start Depth				2.5	0	5.5	0	0	4	6.5	0
End Depth				3.5	0.5	6.5	0.5	0.5	5	7.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8270C SIM	103-33-3	Azobenzene	µg/kg	5.5 U	5.5 U	5.5 U	5.8 U	5.3 U	5.6 U	5.3 U	11 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	129-00-0	Pyrene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	5.5 U	5.5 U	5.5 U	5.8 U	5.3 U	5.6 U	5.3 U	9.0 J Z
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	8.4 J Z
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U	11 U	11 U	12 U	11 U	11 U	11 U	21 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.5 U	5.5 U	5.5 U	5.8 U	5.3 U	5.6 U	5.3 U	11 U

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J - Result is an estimated value

R - Result is rejected

				Sample Name	SL-755-SA5C-SB-4.0-5.0	SL-755-SA5C-SB-5.5-6.5
				Sample Type	N	N
				Sample Date	07/10/2012	07/10/2012
				SDG	12G048	12G048
				Start Depth	4	5.5
				End Depth	5	6.5
Analytic Method	CAS Number	Chemical Name	Unit			
8270C SIM	103-33-3	Azobenzene	µg/kg	5.6 U		5.5 U
8270C SIM	120-12-7	Anthracene	µg/kg	11 U		11 U
8270C SIM	129-00-0	Pyrene	µg/kg	4.5 J Z		11 U
8270C SIM	191-24-2	Benzo(g,h,i)perylene	µg/kg	11 U		11 U
8270C SIM	192-97-2	Benzo(e)pyrene	µg/kg	4.5 J Z		5.5 U
8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	µg/kg	11 U		11 U
8270C SIM	205-99-2	Benzo(b)fluoranthene	µg/kg	4.0 J Z		11 U
8270C SIM	206-44-0	Fluoranthene	µg/kg	5.1 J Z		11 U
8270C SIM	207-08-9	Benzo(k)fluoranthene	µg/kg	11 U		11 U
8270C SIM	208-96-8	Acenaphthylene	µg/kg	11 U		11 U
8270C SIM	218-01-9	Chrysene	µg/kg	11 U		11 U
8270C SIM	50-32-8	Benzo(a)pyrene	µg/kg	11 U		11 U
8270C SIM	53-70-3	Dibenzo(a,h)anthracene	µg/kg	11 U		11 U
8270C SIM	56-55-3	Benzo(a)anthracene	µg/kg	4.5 J Z		11 U
8270C SIM	62-75-9	N-Nitrosodimethylamine	µg/kg	11 U		11 U
8270C SIM	83-32-9	Acenaphthene	µg/kg	11 U		11 U
8270C SIM	85-01-8	Phenanthrene	µg/kg	11 U		11 U
8270C SIM	86-73-7	Fluorene	µg/kg	11 U		11 U
8270C SIM	90-12-0	1-Methylnaphthalene	µg/kg	11 U		11 U
8270C SIM	91-20-3	Naphthalene	µg/kg	11 U		11 U
8270C SIM	91-57-6	2-Methylnaphthalene	µg/kg	11 U		11 U
8270C SIM	92-52-4	1,1'-Biphenyl	µg/kg	5.6 U		5.5 U

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J - Result is an estimated value

R - Result is rejected

Sample Name				SL-501-SA5C-SB-0.0-0.5	SL-501-SA5C-SB-4.0-5.0	SL-502-SA5C-SB-0.0-0.5	SL-802-SA5C-SB-0.0-0.5	SL-502-SA5C-SB-4.5-5.5	SL-507-SA5C-SB-0.0-0.5	SL-507-SA5C-SB-2.5-3.5	SL-508-SA5C-SB-0.0-0.5
Sample Type				N	N	N	FD	N	N	N	N
Sample Date				04/20/2012	06/28/2012	04/20/2012	04/20/2012	06/28/2012	04/20/2012	06/11/2012	04/20/2012
SDG				12D191	12F232	12D191	12D191	12F232	12D191	12F071	12D191
Start Depth				0	4	0	0	4.5	0	2.5	0
End Depth				0.5	5	0.5	0.5	5.5	0.5	3.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	28	22 U	24 U	23 U	22 U	22 U	22 UJ C	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	34	22 U	24 U	23 U	22 U	22 U	22 UJ C	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	22 U	24 U	23 U	22 U	22 U	22 UJ C	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	22 U	24 U	23 U	22 U	22 U	22 UJ C	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	44 U	45 U	47 U	46 U	44 U	44 U	44 UJ C	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	22 U	24 U	23 U	22 U	22 U	22 UJ C	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	44 U	45 U	47 U	46 U	44 U	44 U	44 UJ C	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	22 U	24 U	23 U	22 U	22 U	22 UJ C	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	22 U	24 U	23 U	22 U	22 U	22 UJ C	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	22 U	24 U	23 U	22 U	22 U	22 UJ C	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	22 U	24 U	23 U	22 U	22 U	22 UJ C	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	44 U	45 U	47 U	46 U	44 U	44 U	44 UJ C	44 U

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R - Result is rejected

				Sample Name	SL-508-SA5C-SB-4.0-5.0	SL-508-SA5C-SB-6.5-7.5	SL-509-SA5C-SB-0.0-0.5	SL-509-SA5C-SB-4.0-5.0	SL-809-SA5C-SB-4.0-5.0	SL-509-SA5C-SB-9.0-10.0	SL-510-SA5C-SB-0.0-0.5	SL-512A-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	06/11/2012	06/11/2012	04/20/2012	06/11/2012	06/11/2012	06/11/2012	04/19/2012	04/23/2012
				SDG	12F071	12F071	12D191	12F071	12F071	12F071	12D175	12D198
				Start Depth	4	6.5	0	4	4	9	0	0
				End Depth	5	7.5	0.5	5	5	10	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	22 UJ C	21 UJ C	22 U	22 UJ C	22 UJ C	22 UJ C	22 UJ C	24 U	14 J Z
8082	11097-69-1	Aroclor 1254	µg/kg	22 UJ C	21 UJ C	22 U	22 UJ C	22 UJ C	22 UJ C	22 UJ C	24 U	12 J Z
8082	11100-14-4	Aroclor 1268	µg/kg	22 UJ C	21 UJ C	22 U	22 UJ C	22 UJ C	22 UJ C	22 UJ C	24 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 UJ C	21 UJ C	22 U	22 UJ C	22 UJ C	22 UJ C	22 UJ C	24 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	44 UJ C	43 UJ C	43 U	43 UJ C	44 UJ C	44 UJ C	44 UJ C	48 U	45 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 UJ C	21 UJ C	22 U	22 UJ C	22 UJ C	22 UJ C	22 UJ C	24 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	44 UJ C	43 UJ C	43 U	43 UJ C	44 UJ C	44 UJ C	44 UJ C	48 U	45 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 UJ C	21 UJ C	22 U	22 UJ C	22 UJ C	22 UJ C	22 UJ C	24 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 UJ C	21 UJ C	22 U	22 UJ C	22 UJ C	22 UJ C	22 UJ C	24 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 UJ C	21 UJ C	22 U	22 UJ C	22 UJ C	22 UJ C	22 UJ C	24 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 UJ C	21 UJ C	22 U	22 UJ C	22 UJ C	22 UJ C	22 UJ C	24 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	44 UJ C	43 UJ C	43 U	43 UJ C	44 UJ C	44 UJ C	44 UJ C	48 U	45 U

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 R - Result is rejected

Sample Name				SL-512-SA5C-SB-0.0-0.5	SL-812-SA5C-SB-0.0-0.5	SL-512-SA5C-SB-4.0-5.0	SL-512-SA5C-SB-6.0-7.0	SL-513-SA5C-SB-0.0-0.5	SL-513-SA5C-SB-4.0-5.0	SL-513-SA5C-SB-9.0-10.0	SL-514-SA5C-SB-0.0-0.5
Sample Type				N	FD	N	N	N	N	N	N
Sample Date				05/10/2012	05/10/2012	05/10/2012	05/10/2012	04/19/2012	05/10/2012	05/14/2012	04/17/2012
SDG				12E082	12E082	12E082	12E082	12D175	12E082	12E098	12D155
Start Depth				0	0	4	6	0	4	9	0
End Depth				0.5	0.5	5	7	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	21 J Z	22	23 U	23 U	23 U	23 U	23 U	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	22 U	23 U	23 U	23 U	23 U	23 U	23 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	22 U	23 U	23 U	23 U	23 U	23 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	22 U	23 U	23 U	23 U	23 U	23 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	44 U	44 U	46 U	46 U	47 U	45 U	46 U	46 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	22 U	23 U	23 U	23 U	23 U	23 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	44 U	44 U	46 U	46 U	47 U	45 U	46 U	46 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	22 U	23 U	23 U	23 U	23 U	23 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	22 U	23 U	23 U	23 U	23 U	23 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	22 U	23 U	23 U	23 U	23 U	23 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	22 U	23 U	23 U	23 U	23 U	23 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	44 U	44 U	46 U	46 U	47 U	45 U	46 U	46 U

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R - Result is rejected

				Sample Name	SL-814-SA5C-SB-0.0-0.5	SL-514-SA5C-SB-4.0-5.0	SL-514-SA5C-SB-9.0-10.0	SL-515-SA5C-SB-0.0-0.5	SL-515-SA5C-SB-4.0-5.0	SL-515-SA5C-SB-9.0-10.0	SL-516-SA5C-SB-0.0-0.5	SL-516-SA5C-SB-4.0-5.0
				Sample Type	FD	N	N	N	N	N	N	N
				Sample Date	04/17/2012	05/14/2012	05/14/2012	04/19/2012	06/25/2012	06/25/2012	04/19/2012	04/19/2012
				SDG	12D155	12E098	12E098	12D175	12F182	12F182	12D175	12D175
				Start Depth	0	4	9	0	4	9	0	4
				End Depth	0.5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	21 U	21 U	22 U	23 U	22 U	22 U	100	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	21 U	21 U	34	23 U	22 U	22 U	23 U	23 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	21 U	21 U	22 U	23 U	22 U	22 U	23 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	21 U	21 U	22 U	23 U	22 U	22 U	23 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	46 U	43 U	43 U	44 U	45 U	44 U	44 U	36 J Z	46 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	21 U	21 U	22 U	23 U	22 U	22 U	23 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	46 U	43 U	43 U	44 U	45 U	44 U	44 U	47 U	46 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	21 U	21 U	22 U	23 U	22 U	22 U	23 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	21 U	21 U	22 U	23 U	22 U	22 U	23 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	21 U	21 U	22 U	23 U	22 U	22 U	23 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	21 U	21 U	22 U	23 U	22 U	22 U	23 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	46 U	43 U	43 U	44 U	45 U	44 U	44 U	47 U	46 U

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

Sample Name				SL-517-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-4.0-5.0	SL-518-SA5C-SB-9.0-10.0	SL-520-SA5C-SB-0.0-0.5	SL-520-SA5C-SB-6.5-7.5	SL-521-SA5C-SB-0.0-0.5	SL-521-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/19/2012	04/19/2012	06/11/2012	06/11/2012	04/23/2012	06/11/2012	06/11/2012	06/11/2012
SDG				12D175	12D175	12F071	12F071	12D198	12F071	12F071	12F071
Start Depth				0	0	4	9	0	6.5	0	4
End Depth				0.5	0.5	5	10	0.5	7.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	21 U	22 UJ C	22 UJ C	22 U	21 UJ C	23 UJ C	23 UJ C
8082	11097-69-1	Aroclor 1254	µg/kg	220	21 U	22 UJ C	22 UJ C	22 U	21 UJ C	23 UJ C	23 UJ C
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	21 U	22 UJ C	22 UJ C	22 U	21 UJ C	23 UJ C	23 UJ C
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	21 U	22 UJ C	22 UJ C	22 U	21 UJ C	23 UJ C	23 UJ C
8082	11126-42-4	Aroclor 5460	µg/kg	43 U	41 U	45 UJ C	44 UJ C	44 U	43 UJ C	46 UJ C	45 UJ C
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	21 U	22 UJ C	22 UJ C	22 U	21 UJ C	23 UJ C	23 UJ C
8082	12642-23-8	Aroclor 5442	µg/kg	43 U	41 U	45 UJ C	44 UJ C	44 U	43 UJ C	46 UJ C	45 UJ C
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	21 U	22 UJ C	22 UJ C	22 U	21 UJ C	23 UJ C	23 UJ C
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	21 U	22 UJ C	22 UJ C	22 U	21 UJ C	23 UJ C	23 UJ C
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	21 U	22 UJ C	22 UJ C	22 U	21 UJ C	23 UJ C	23 UJ C
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	21 U	22 UJ C	22 UJ C	22 U	21 UJ C	23 UJ C	23 UJ C
8082	63496-31-1	Aroclor 5432	µg/kg	43 U	41 U	45 UJ C	44 UJ C	44 U	43 UJ C	46 UJ C	45 UJ C

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

				Sample Name	SL-521-SA5C-SB-9.0-10.0	SL-522-SA5C-SB-0.0-0.5	SL-522-SA5C-SB-4.0-5.0	SL-822-SA5C-SB-4.0-5.0	SL-522-SA5C-SB-9.0-10.0	SL-523-SA5C-SB-0.0-0.5	SL-523-SA5C-SB-4.0-5.0	SL-523-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	FD	N	N	N	N
				Sample Date	06/11/2012	04/25/2012	07/09/2012	07/09/2012	07/09/2012	04/25/2012	07/09/2012	07/09/2012
				SDG	12F071	12D231	12G030	12G030	12G030	12D231	12G030	12G030
				Start Depth	9	0	4	4	9	0	4	9
				End Depth	10	0.5	5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	43 U	43 U	44 U	43 U	43 U	42 U	42 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	43 U	43 U	44 U	43 U	43 U	42 U	42 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	21 U	21 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	43 U	43 U	44 U	43 U	43 U	42 U	42 U	44 U

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

Sample Name				SL-524-SA5C-SB-0.0-0.5	SL-524-SA5C-SB-4.0-5.0	SL-525-SA5C-SB-0.0-0.5	SL-525-SA5C-SB-4.0-5.0	SL-525-SA5C-SB-9.0-10.0	SL-526-SA5C-SB-0.0-0.5	SL-526-SA5C-SB-4.0-5.0	SL-526-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/24/2012	06/19/2012	04/24/2012	06/19/2012	06/19/2012	04/25/2012	06/19/2012	06/19/2012
SDG				12D208	12F132	12D208	12F132	12F132	12D231	12F132	12F132
Start Depth				0	4	0	4	9	0	4	9
End Depth				0.5	5	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	18 J Z	21 U	21 U	21 U	22 U	22 U	22 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	18 J Z	21 U	28	21 U	22 U	22 U	22 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	21 U	21 U	21 U	21 U	22 U	22 U	22 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	21 U	21 U	21 U	21 U	22 U	22 U	22 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	64	42 U	43 U	43 U	43 U	44 U	44 U	43 U
8082	11141-16-5	Aroclor 1232	µg/kg	21 U	21 U	21 U	21 U	22 U	22 U	22 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	43 U	42 U	43 U	43 U	43 U	44 U	44 U	43 U
8082	12672-29-6	Aroclor 1248	µg/kg	21 U	21 U	21 U	21 U	22 U	22 U	22 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	21 U	21 U	21 U	21 U	22 U	22 U	22 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	21 U	21 U	21 U	21 U	22 U	22 U	22 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	21 U	21 U	21 U	21 U	22 U	22 U	22 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	43 U	42 U	43 U	43 U	43 U	44 U	44 U	43 U

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

				Sample Name	SL-527-SA5C-SB-0.0-0.5	SL-527-SA5C-SB-4.0-5.0	SL-528-SA5C-SB-0.0-0.5	SL-528-SA5C-SB-4.0-5.0	SL-828-SA5C-SB-4.0-5.0	SL-529-SA5C-SB-0.0-0.5	SL-529-SA5C-SB-4.0-5.0	SL-530-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	04/25/2012	06/19/2012	04/25/2012	06/19/2012	06/19/2012	04/25/2012	05/09/2012	04/25/2012
				SDG	12D231	12F132	12D231	12F132	12F132	12D231	12E082	12D231
				Start Depth	0	4	0	4	4	0	4	0
				End Depth	0.5	5	0.5	5	5	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	22 U	21 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	22 U	21 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	22 U	21 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	22 U	21 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	11126-42-4	Aroclor 5460	µg/kg	43 U	44 U	42 U	43 U	43 U	43 U	42 U	44 U	43 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	22 U	21 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	12642-23-8	Aroclor 5442	µg/kg	43 U	44 U	42 U	43 U	43 U	43 U	42 U	44 U	43 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	22 U	21 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	22 U	21 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	22 U	21 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	22 U	21 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	63496-31-1	Aroclor 5432	µg/kg	43 U	44 U	42 U	43 U	43 U	43 U	42 U	44 U	43 U

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

Sample Name				SL-530-SA5C-SB-4.0-5.0	SL-530-SA5C-SB-9.0-10.0	SL-531-SA5C-SB-0.0-0.5	SL-531-SA5C-SB-4.0-5.0	SL-531-SA5C-SB-9.0-10.0	SL-532-SA5C-SB-0.0-0.5	SL-533-SA5C-SB-0.0-0.5	SL-533-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				07/09/2012	07/09/2012	04/25/2012	07/09/2012	07/09/2012	04/23/2012	04/23/2012	07/09/2012
SDG				12G030	12G030	12D231	12G030	12G030	12D198	12D198	12G030
Start Depth				4	9	0	4	9	0	0	4
End Depth				5	10	0.5	5	10	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	21 U	22 U	22 U	22 U	49	21 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	21 U	22 U	22 U	22 U	34	21 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	21 U	22 U	22 U	22 U	22 U	21 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	21 U	22 U	22 U	22 U	22 U	21 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	42 U	43 U	44 U	44 U	32 J Z	42 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	21 U	22 U	22 U	22 U	22 U	21 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	42 U	43 U	44 U	44 U	44 U	42 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	21 U	22 U	22 U	22 U	22 U	21 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	21 U	22 U	22 U	22 U	22 U	21 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	21 U	22 U	22 U	22 U	22 U	21 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	21 U	22 U	22 U	22 U	22 U	21 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	42 U	43 U	44 U	44 U	44 U	42 U	44 U

U - Compound not detected above the reporting limit  
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R - Result is rejected

Sample Name				SL-533-SA5C-SB-9.0-10.0	SL-536-SA5C-SB-0.0-0.5	SL-536-SA5C-SB-4.0-5.0	SL-536-SA5C-SB-9.0-10.0	SL-537-SA5C-SB-0.0-0.5	SL-537-SA5C-SB-4.0-5.0	SL-537-SA5C-SB-9.0-10.0	SL-539-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				07/09/2012	05/08/2012	06/01/2012	06/01/2012	06/07/2012	06/07/2012	06/07/2012	06/05/2012
SDG				12G030	12E055	12F020	12F020	12F051	12F051	12F051	12F037
Start Depth				9	0	4	9	0	4	9	0
End Depth				10	0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	22 U	22 U	22 U	23 U	23 U	23 U	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	22 U	22 U	22 U	23 U	23 U	23 U	23 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	22 U	22 U	22 U	23 U	23 U	23 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	22 U	22 U	22 U	23 U	23 U	23 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	44 U	43 U	43 U	44 U	45 U	46 U	46 U	45 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	22 U	22 U	22 U	23 U	23 U	23 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	44 U	43 U	43 U	44 U	45 U	46 U	46 U	45 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	22 U	22 U	22 U	23 U	23 U	23 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	22 U	22 U	22 U	23 U	23 U	23 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	22 U	22 U	22 U	23 U	23 U	23 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	22 U	22 U	22 U	23 U	23 U	23 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	44 U	43 U	43 U	44 U	45 U	46 U	46 U	45 U

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

Sample Name				SL-539-SA5C-SB-6.0-7.0	SL-543-SA5C-SB-0.0-0.5	SL-543-SA5C-SB-3.5-4.5	SL-544-SA5C-SB-0.0-0.5	SL-544-SA5C-SB-5.0-6.0	SL-545-SA5C-SB-0.0-0.5	SL-545-SA5C-SB-4.0-5.0	SL-545-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/05/2012	06/05/2012	06/05/2012	05/30/2012	05/30/2012	06/04/2012	06/04/2012	06/04/2012
SDG				12F037	12F037	12F037	12E244	12E244	12F037	12F037	12F037
Start Depth				6	0	3.5	0	5	0	4	9
End Depth				7	0.5	4.5	0.5	6	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	22 U	21 U	22 U	23 U	23 U	23 U	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	22 U	21 U	22 U	23 U	23 U	23 U	23 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	22 U	21 U	22 U	23 U	23 U	23 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	22 U	21 U	22 U	23 U	23 U	23 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	44 U	44 U	43 U	44 U	46 U	46 U	46 U	46 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	22 U	21 U	22 U	23 U	23 U	23 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	44 U	44 U	43 U	44 U	46 U	46 U	46 U	46 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	22 U	21 U	22 U	23 U	23 U	23 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	22 U	21 U	22 U	23 U	23 U	23 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	22 U	21 U	22 U	23 U	23 U	23 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	22 U	21 U	22 U	23 U	23 U	23 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	44 U	44 U	43 U	44 U	46 U	46 U	46 U	46 U

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

				Sample Name	SL-546-SA5C-SB-0.0-0.5	SL-546-SA5C-SB-4.0-5.0	SL-846-SA5C-SB-4.0-5.0	SL-546-SA5C-SB-9.0-10.0	SL-547-SA5C-SB-0.0-0.5	SL-547-SA5C-SB-4.0-5.0	SL-547-SA5C-SB-9.0-10.0	SL-548-SA5C-SB-0.0-0.5
				Sample Type	N	N	FD	N	N	N	N	N
				Sample Date	06/06/2012	06/06/2012	06/06/2012	06/06/2012	05/08/2012	06/07/2012	06/07/2012	05/08/2012
				SDG	12F044	12F044	12F044	12F044	12E055	12F051	12F051	12E055
				Start Depth	0	4	4	9	0	4	9	0
				End Depth	0.5	5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	130	23 U	23 U	23 U	23 U	23 U	22 U	22 U	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	23 U	23 U	23 U	23 U	23 U	22 U	22 U	23 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	23 U	23 U	23 U	23 U	23 U	22 U	22 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	23 U	23 U	23 U	23 U	23 U	22 U	22 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	46 U	47 U	46 U	46 U	46 U	44 U	43 U	47 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	23 U	23 U	23 U	23 U	23 U	22 U	22 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	46 U	47 U	46 U	46 U	46 U	44 U	43 U	47 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	23 U	23 U	23 U	23 U	23 U	22 U	22 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	23 U	23 U	23 U	23 U	23 U	22 U	22 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	23 U	23 U	23 U	23 U	23 U	22 U	22 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	23 U	23 U	23 U	23 U	23 U	22 U	22 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	46 U	47 U	46 U	46 U	46 U	44 U	43 U	47 U

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

Sample Name				SL-548-SA5C-SB-4.0-5.0	SL-548-SA5C-SB-9.0-10.0	SL-550-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-4.0-5.0	SL-552-SA5C-SB-0.0-0.5	SL-554-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/07/2012	06/07/2012	05/30/2012	06/05/2012	06/05/2012	06/05/2012	05/29/2012	05/29/2012
SDG				12F051	12F051	12E244	12F037	12F037	12F037	12E229	12E229
Start Depth				4	9	0	0	4	0	0	0
End Depth				5	10	0.5	0.5	4	0.5	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	23 U	22 U	23 U	22 U	21 U	22 U	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	23 U	22 U	23 U	22 U	21 U	22 U	23 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	23 U	22 U	23 U	22 U	21 U	22 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	23 U	22 U	23 U	22 U	21 U	22 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	46 U	45 U	43 U	46 U	45 U	42 U	44 U	45 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	23 U	22 U	23 U	22 U	21 U	22 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	46 U	45 U	43 U	46 U	45 U	42 U	44 U	45 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	23 U	22 U	23 U	22 U	21 U	22 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	23 U	22 U	23 U	22 U	21 U	22 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	23 U	22 U	23 U	22 U	21 U	22 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	23 U	22 U	23 U	22 U	21 U	22 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	46 U	45 U	43 U	46 U	45 U	42 U	44 U	45 U

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R - Result is rejected

				Sample Name	SL-555-SA5C-SB-2.5-3.5	SL-556A-SA5C-SB-0.0-0.5	SL-556B-SA5C-SB-0.0-0.5	SL-556B-SA5C-SB-2.0-3.0	SL-556C-SA5C-SB-0.0-0.5	SL-556C-SA5C-SB-2.0-3.0	SL-556D-SA5C-SB-0.0-0.5	SL-856D-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	FD
				Sample Date	05/29/2012	04/24/2012	04/24/2012	05/15/2012	04/24/2012	05/15/2012	04/24/2012	04/24/2012
				SDG	12E229	12D208	12D208	12E108	12D208	12E108	12D208	12D208
				Start Depth	2.5	0	0	2	0	2	0	0
				End Depth	3.5	0.5	0.5	3	0.5	3	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	22 U	22 U	22 U	21 U	22 U	22 U	21 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	22 U	22 U	22 U	21 U	22 U	22 U	21 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	22 U	22 U	22 U	21 U	22 U	22 U	21 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	22 U	22 U	22 U	21 U	22 U	22 U	21 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	44 U	43 U	44 U	42 U	45 U	45 U	42 U	43 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	22 U	22 U	22 U	21 U	22 U	22 U	21 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	44 U	43 U	44 U	42 U	45 U	45 U	42 U	43 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	22 U	22 U	22 U	21 U	22 U	22 U	21 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	22 U	22 U	22 U	21 U	22 U	22 U	21 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	22 U	22 U	22 U	21 U	22 U	22 U	21 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	22 U	22 U	22 U	21 U	22 U	22 U	21 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	44 U	43 U	44 U	42 U	45 U	45 U	42 U	43 U

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R - Result is rejected

Sample Name				SL-556D-SA5C-SB-2.0-3.0	SL-856D-SA5C-SB-2.0-3.0	SL-557A-SA5C-SB-0.0-0.5	SL-557A-SA5C-SB-2.0-3.0	SL-557B-SA5C-SB-0.0-0.5	SL-557B-SA5C-SB-2.0-3.0	SL-557C-SA5C-SB-0.0-0.5
Sample Type				N	FD	N	N	N	N	N
Sample Date				05/15/2012	05/15/2012	04/24/2012	05/15/2012	04/24/2012	05/15/2012	04/24/2012
SDG				12E108	12E108	12D208	12E108	12D208	12E108	12D208
Start Depth				2	2	0	2	0	2	0
End Depth				3	3	0.5	3	0.5	3	0.5
Analytic Method	CAS Number	Chemical Name	Unit							
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	21 U	21 U	22 U	22 U	22 U	21 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	21 U	21 U	22 U	40	22 U	96
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	21 U	21 U	22 U	22 U	22 U	21 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	21 U	21 U	22 U	22 U	22 U	21 U
8082	11126-42-4	Aroclor 5460	µg/kg	43 U	43 U	42 U	44 U	43 U	45 U	42 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	21 U	21 U	22 U	22 U	22 U	21 U
8082	12642-23-8	Aroclor 5442	µg/kg	43 U	43 U	42 U	44 U	43 U	45 U	42 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	21 U	21 U	22 U	22 U	22 U	21 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	21 U	21 U	22 U	22 U	22 U	21 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	21 U	21 U	22 U	22 U	22 U	21 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	21 U	21 U	22 U	22 U	22 U	21 U
8082	63496-31-1	Aroclor 5432	µg/kg	43 U	43 U	42 U	44 U	43 U	45 U	42 U

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R - Result is rejected

Sample Name				SL-557C-SA5C-SB-2.0-3.0	SL-557D-SA5C-SB-0.0-0.5	SL-557D-SA5C-SB-2.0-3.0	SL-558A-SA5C-SB-0.0-0.5	SL-558A-SA5C-SB-2.0-3.0	SL-558B-SA5C-SB-0.0-0.5	SL-558B-SA5C-SB-2.0-3.0
Sample Type				N	N	N	N	N	N	N
Sample Date				05/15/2012	04/24/2012	05/15/2012	06/01/2012	06/01/2012	06/01/2012	06/01/2012
SDG				12E108	12D208	12E108	12F020	12F020	12F020	12F020
Start Depth				2	0	2	0	2	0	2
End Depth				3	0.5	3	0.5	3	0.5	3
Analytic Method	CAS Number	Chemical Name	Unit							
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	21 U	22 U	22 U	23 U	24 U	24 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	68	22 U	22 U	23 U	24 U	24 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	21 U	22 U	22 U	23 U	24 U	24 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	21 U	22 U	22 U	23 U	24 U	24 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	42 U	45 U	45 U	46 U	47 U	48 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	21 U	22 U	22 U	23 U	24 U	24 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	42 U	45 U	45 U	46 U	47 U	48 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	21 U	22 U	22 U	23 U	24 U	24 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	21 U	22 U	22 U	23 U	24 U	24 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	21 U	22 U	22 U	23 U	24 U	24 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	21 U	22 U	22 U	23 U	24 U	24 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	42 U	45 U	45 U	46 U	47 U	48 U

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Sample Name				SL-558C-SA5C-SB-0.0-0.5	SL-558C-SA5C-SB-2.0-3.0	SL-558D-SA5C-SB-0.0-0.5	SL-559-SA5C-SB-0.0-0.5	SL-559-SA5C-SB-2.0-3.0	SL-559-SA5C-SB-7.0-8.0	SL-560-SA5C-SB-0.0-0.5	SL-560-SA5C-SB-6.5-7.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/01/2012	06/01/2012	06/01/2012	06/07/2012	06/07/2012	06/07/2012	05/30/2012	05/30/2012
SDG				12F020	12F020	12F020	12F051	12F051	12F051	12E244	12E244
Start Depth				0	2	0	0	2	7	0	6.5
End Depth				0.5	3	0.5	0.5	3	8	0.5	7.5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	24 U	24 U	23 U	17 J Z	23 U	23 U	23 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	24 U	24 U	23 U	23 U	23 U	23 U	23 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	24 U	24 U	23 U	23 U	23 U	23 U	23 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	24 U	24 U	23 U	23 U	23 U	23 U	23 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	48 U	48 U	47 U	47 U	47 U	46 U	46 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	24 U	24 U	23 U	23 U	23 U	23 U	23 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	48 U	48 U	47 U	47 U	47 U	46 U	46 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	24 U	24 U	23 U	23 U	23 U	23 U	23 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	24 U	24 U	23 U	23 U	23 U	23 U	23 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	24 U	24 U	23 U	23 U	23 U	23 U	23 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	24 U	24 U	23 U	23 U	23 U	23 U	23 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	48 U	48 U	47 U	47 U	47 U	46 U	46 U	44 U

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R - Result is rejected

				Sample Name	SL-561-SA5C-SB-0.0-0.5	SL-561-SA5C-SB-5.5-6.5	SL-564-SA5C-SB-0.0-0.5	SL-564-SA5C-SB-4.0-5.0	SL-564-SA5C-SB-9.0-10.0	SL-565-SA5C-SB-0.0-0.5	SL-565-SA5C-SB-4.0-5.0	SL-565-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/05/2012	06/05/2012	06/04/2012	06/04/2012	06/04/2012	06/04/2012	06/04/2012	06/04/2012
				SDG	12F037	12F037	12F029	12F029	12F029	12F029	12F029	12F029
				Start Depth	0	5.5	0	4	9	0	4	9
				End Depth	0.5	6.5	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	21 U	23 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	21 U	23 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	21 U	23 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	21 U	23 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	42 U	47 U	45 U	44 U	44 U	43 U	43 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	21 U	23 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	42 U	47 U	45 U	44 U	44 U	43 U	43 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	21 U	23 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	21 U	23 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	21 U	23 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	21 U	23 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	42 U	47 U	45 U	44 U	44 U	43 U	43 U	44 U

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 R - Result is rejected

Sample Name				SL-566-SA5C-SB-0.0-0.5	SL-566-SA5C-SB-4.0-5.0	SL-566-SA5C-SB-9.0-10.0	SL-570-SA5C-SB-0.0-0.5	SL-570-SA5C-SB-2.0-3.0	SL-571-SA5C-SB-0.0-0.5	SL-572-SA5C-SB-0.0-0.5	SL-572-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/08/2012	06/04/2012	06/04/2012	04/18/2012	04/18/2012	04/26/2012	06/19/2012	06/19/2012
SDG				12E055	12F029	12F029	12D165	12D165	12D256	12F132	12F132
Start Depth				0	4	9	0	2	0	0	4
End Depth				0.5	5	10	0.5	3	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	22 U	22 U	22 U	22 U	61	23 U	21 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	22 U	22 U	22 U	22 U	23 U	23 U	21 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	22 U	22 U	22 U	22 U	23 U	23 U	21 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	22 U	22 U	22 U	22 U	23 U	23 U	21 U
8082	11126-42-4	Aroclor 5460	µg/kg	43 U	44 U	45 U	44 U	43 U	47 U	45 U	42 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	22 U	22 U	22 U	22 U	23 U	23 U	21 U
8082	12642-23-8	Aroclor 5442	µg/kg	43 U	44 U	45 U	44 U	43 U	47 U	45 U	42 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	22 U	22 U	22 U	22 U	23 U	23 U	21 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	22 U	22 U	22 U	22 U	23 U	23 U	21 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	22 U	22 U	22 U	22 U	23 U	23 U	21 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	22 U	22 U	22 U	22 U	23 U	23 U	21 U
8082	63496-31-1	Aroclor 5432	µg/kg	43 U	44 U	45 U	44 U	43 U	47 U	45 U	42 U

U - Compound not detected above the reporting limit

J - Result is an estimated value

R - Result is rejected

Sample Name				SL-872-SA5C-SB-4.0-5.0	SL-573-SA5C-SB-0.0-0.5	SL-573-SA5C-SB-4.0-5.0	SL-573-SA5C-SB-9.0-10.0	SL-574-SA5C-SB-0.0-0.5	SL-574-SA5C-SB-4.0-5.0	SL-574-SA5C-SB-9.0-10.0	SL-575-SA5C-SB-0.0-0.5
Sample Type				FD	N	N	N	N	N	N	N
Sample Date				06/19/2012	06/04/2012	06/04/2012	06/04/2012	04/20/2012	06/11/2012	06/11/2012	04/19/2012
SDG				12F132	12F029	12F029	12F029	12D191	12F071	12F071	12D175
Start Depth				4	0	4	9	0	4	9	0
End Depth				5	0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	21 U	22 U	23 U	23 U	23 U	22 UJ C	23 UJ C	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	21 U	22 U	23 U	23 U	23 U	22 UJ C	23 UJ C	200
8082	11100-14-4	Aroclor 1268	µg/kg	21 U	22 U	23 U	23 U	23 U	22 UJ C	23 UJ C	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	21 U	22 U	23 U	23 U	23 U	22 UJ C	23 UJ C	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	43 U	45 U	46 U	45 U	47 U	44 UJ C	46 UJ C	47 U
8082	11141-16-5	Aroclor 1232	µg/kg	21 U	22 U	23 U	23 U	23 U	22 UJ C	23 UJ C	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	43 U	45 U	46 U	45 U	47 U	44 UJ C	46 UJ C	47 U
8082	12672-29-6	Aroclor 1248	µg/kg	21 U	22 U	23 U	23 U	23 U	22 UJ C	23 UJ C	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	21 U	22 U	23 U	23 U	23 U	22 UJ C	23 UJ C	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	21 U	22 U	23 U	23 U	23 U	22 UJ C	23 UJ C	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	21 U	22 U	23 U	23 U	23 U	22 UJ C	23 UJ C	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	43 U	45 U	46 U	45 U	47 U	44 UJ C	46 UJ C	47 U

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

Sample Name				SL-575-SA5C-SB-4.0-5.0	SL-577-SA5C-SB-0.0-0.5	SL-578-SA5C-SB-0.0-0.5	SL-578-SA5C-SB-4.0-5.0	SL-579-SA5C-SB-0.0-0.5	SL-579-SA5C-SB-4.0-5.0	SL-580-SA5C-SB-0.0-0.5	SL-580-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/25/2012	04/17/2012	04/17/2012	06/27/2012	04/18/2012	04/18/2012	04/18/2012	04/18/2012
SDG				12F182	12D155	12D155	12F215	12D165	12D165	12D165	12D165
Start Depth				4	0	0	4	0	4	0	4
End Depth				5	0.5	0.5	5	0.5	5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	23 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	170	23 U	22 U	290	40	240	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	23 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	23 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	44 U	47 U	46 U	44 U	48	44 U	46	45 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	23 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	44 U	47 U	46 U	44 U	45 U	44 U	46 U	45 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	23 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	23 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	23 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	23 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	44 U	47 U	46 U	44 U	45 U	44 U	46 U	45 U

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

Sample Name				SL-581-SA5C-SB-0.0-0.5	SL-581-SA5C-SB-4.0-5.0	SL-881-SA5C-SB-4.0-5.0	SL-584-SA5C-SB-0.0-0.5	SL-584-SA5C-SB-4.0-5.0	SL-585-SA5C-SB-0.0-0.5	SL-585-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-0.0-0.5
Sample Type				N	N	FD	N	N	N	N	N
Sample Date				04/17/2012	06/26/2012	06/26/2012	05/03/2012	06/21/2012	05/02/2012	06/21/2012	05/07/2012
SDG				12D155	12F197	12F197	12E034	12F162	12E018	12F162	12E049
Start Depth				0	4	4	0	4	0	4	0
End Depth				0.5	5	5	0.5	5	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	23 U	23 U	23 U	23 U	21 U	21 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	23 U	23 U	23 U	23 U	21 U	21 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	23 U	23 U	23 U	23 U	21 U	21 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	23 U	23 U	23 U	23 U	21 U	21 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	45 U	45 U	46 U	46 U	43 U	42 U	63
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	23 U	23 U	23 U	23 U	21 U	21 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	45 U	45 U	46 U	46 U	43 U	42 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	23 U	23 U	23 U	23 U	21 U	21 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	23 U	23 U	23 U	23 U	21 U	21 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	23 U	23 U	23 U	23 U	21 U	21 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	23 U	23 U	23 U	23 U	21 U	21 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	45 U	45 U	46 U	46 U	43 U	42 U	44 U

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

Sample Name				SL-586-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-9.0-10.0	SL-587-SA5C-SB-0.0-0.5	SL-587-SA5C-SB-4.0-5.0	SL-887-SA5C-SB-4.0-5.0	SL-587-SA5C-SB-8.5-9.5	SL-594-SA5C-SB-0.0-0.5	SL-594-SA5C-SB-5.0-6.0
Sample Type				N	N	N	N	FD	N	N	N
Sample Date				07/11/2012	07/11/2012	05/02/2012	06/20/2012	06/20/2012	06/20/2012	06/21/2012	06/21/2012
SDG				12G064	12G064	12E018	12F146	12F146	12F146	12F162	12F162
Start Depth				4	9	0	4	4	8.5	0	5
End Depth				5	10	0.5	5	5	9.5	0.5	6
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	23 U	23 U	23 U	23 U	22 U	23 U	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	23 U	23 U	23 U	23 U	22 U	23 U	23 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	23 U	23 U	23 U	23 U	22 U	23 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	23 U	23 U	23 U	23 U	22 U	23 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	43 U	45 U	46 U	46 U	46 U	45 U	46 U	46 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	23 U	23 U	23 U	23 U	22 U	23 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	43 U	45 U	46 U	46 U	46 U	45 U	46 U	46 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	23 U	23 U	23 U	23 U	22 U	23 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	23 U	23 U	23 U	23 U	22 U	23 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	23 U	23 U	23 U	23 U	22 U	23 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	23 U	23 U	23 U	23 U	22 U	23 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	43 U	45 U	46 U	46 U	46 U	45 U	46 U	46 U

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R - Result is rejected

				Sample Name	SL-594-SA5C-SB-9.0-10.0	SL-595-SA5C-SB-1.0-2.0	SL-595-SA5C-SB-2.0-3.0	SL-599-SA5C-SB-0.0-0.5	SL-599-SA5C-SB-4.0-5.0	SL-600-SA5C-SB-0.0-0.5	SL-600-SA5C-SB-4.0-5.0	SL-602-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/21/2012	05/07/2012	05/07/2012	05/02/2012	06/21/2012	05/02/2012	06/21/2012	05/02/2012
				SDG	12F162	12E049	12E049	12E018	12F162	12E018	12F162	12E034
				Start Depth	9	1	2	0	4	0	4	0
				End Depth	10	2	3	0.5	5	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	24 U	17 J Z	22 U	22 U	21 U	24 U	21 U	22 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	24 U	22 U	22 U	22 U	21 U	24 U	21 U	22 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	24 U	22 U	22 U	22 U	21 U	24 U	21 U	22 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	24 U	22 U	22 U	22 U	21 U	24 U	21 U	22 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	49 U	44 U	45 U	43 U	42 U	48 U	43 U	44 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	24 U	22 U	22 U	22 U	21 U	24 U	21 U	22 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	49 U	44 U	45 U	43 U	42 U	48 U	43 U	44 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	24 U	22 U	22 U	22 U	21 U	24 U	21 U	22 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	24 U	22 U	22 U	22 U	21 U	24 U	21 U	22 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	24 U	22 U	22 U	22 U	21 U	24 U	21 U	22 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	24 U	22 U	22 U	22 U	21 U	24 U	21 U	22 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	49 U	44 U	45 U	43 U	42 U	48 U	43 U	44 U	44 U

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 R - Result is rejected

Sample Name				SL-602-SA5C-SB-4.0-5.0	SL-603-SA5C-SB-0.0-0.5	SL-903-SA5C-SB-0.0-0.5	SL-603-SA5C-SB-4.0-5.0	SL-604-SA5C-SB-0.0-0.5	SL-604-SA5C-SB-4.0-5.0	SL-606-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-0.0-0.5
Sample Type				N	N	FD	N	N	N	N	N
Sample Date				06/21/2012	05/03/2012	05/03/2012	06/21/2012	05/02/2012	06/20/2012	05/03/2012	07/11/2012
SDG				12F162	12E034	12E034	12F162	12E018	12F146	12E034	12G064
Start Depth				4	0	0	4	0	4	0	0
End Depth				5	0.5	0.5	5	0.5	5	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	21 U	22 U	21 U	22 U	22 U	21 U	26	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	21 U	22 U	21 U	22 U	22 U	21 U	42	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	21 U	22 U	21 U	22 U	22 U	21 U	21 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	21 U	22 U	21 U	22 U	22 U	21 U	21 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	42 U	43 U	43 U	44 U	45 U	42 U	42 U	45 U
8082	11141-16-5	Aroclor 1232	µg/kg	21 U	22 U	21 U	22 U	22 U	21 U	21 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	42 U	43 U	43 U	44 U	45 U	42 U	42 U	45 U
8082	12672-29-6	Aroclor 1248	µg/kg	21 U	22 U	21 U	22 U	22 U	21 U	21 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	21 U	22 U	21 U	22 U	22 U	21 U	21 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	21 U	22 U	21 U	22 U	22 U	21 U	21 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	21 U	22 U	21 U	22 U	22 U	21 U	21 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	42 U	43 U	43 U	44 U	45 U	42 U	42 U	45 U

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R - Result is rejected

				Sample Name	SL-607-SA5C-SB-4.0-5.0	SL-607-SA5C-SB-9.0-10.0	SL-608-SA5C-SB-0.0-0.5	SL-608-SA5C-SB-2.0-3.0	SL-609-SA5C-SB-0.0-0.5	SL-609-SA5C-SB-3.0-4.0	SL-610-SA5C-SB-0.0-0.5	SL-611-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	07/11/2012	07/11/2012	05/09/2012	05/31/2012	05/09/2012	05/31/2012	05/31/2012	05/31/2012
				SDG	12G064	12G064	12E067	12E267	12E067	12E267	12E267	12E267
				Start Depth	4	9	0	2	0	3	0	0
				End Depth	5	10	0.5	3	0.5	4	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	23 U	17 J Z	21 U	22 U	22 U	22 U	21 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	23 U	21 U	21 U	22 U	22 U	22 U	21 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	23 U	21 U	21 U	22 U	22 U	22 U	21 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	23 U	21 U	21 U	22 U	22 U	22 U	21 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	46 U	45 U	42	42 U	45 U	44 U	44 U	42 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	23 U	21 U	21 U	22 U	22 U	22 U	21 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	46 U	45 U	42 U	42 U	45 U	44 U	44 U	42 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	23 U	21 U	21 U	22 U	22 U	22 U	21 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	23 U	21 U	21 U	22 U	22 U	22 U	21 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	23 U	21 U	21 U	22 U	22 U	22 U	21 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	23 U	21 U	21 U	22 U	22 U	22 U	21 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	46 U	45 U	42 U	42 U	45 U	44 U	44 U	42 U	44 U

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 R - Result is rejected

Sample Name				SL-611-SA5C-SB-5.0-6.0	SL-612-SA5C-SB-0.0-0.5	SL-612-SA5C-SB-4.0-5.0	SL-912-SA5C-SB-4.0-5.0	SL-612-SA5C-SB-7.0-8.0	SL-613-SA5C-SB-0.0-0.5	SL-613-SA5C-SB-4.0-5.0	SL-613-SA5C-SB-7.5-8.5
Sample Type				N	N	N	FD	N	N	N	N
Sample Date				05/31/2012	05/03/2012	05/31/2012	05/31/2012	05/31/2012	05/09/2012	05/31/2012	05/31/2012
SDG				12E267	12E034	12E267	12E267	12E267	12E067	12E267	12E267
Start Depth				5	0	4	4	7	0	4	7.5
End Depth				6	0.5	5	5	8	0.5	5	8.5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	23	22 U	21 U	22 U	21 U	22 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	38	22 U	21 U	22 U	21 U	22 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	43 U	43 U	43 U	44 U	41 U	43 U	45 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	43 U	43 U	43 U	44 U	41 U	43 U	45 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	21 U	22 U	21 U	22 U	21 U	22 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	43 U	43 U	43 U	44 U	41 U	43 U	45 U

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				SL-614-SA5C-SB-0.0-0.5	SL-614-SA5C-SB-3.0-4.0	SL-615-SA5C-SB-0.0-0.5	SL-615-SA5C-SB-4.0-5.0	SL-615-SA5C-SB-9.0-10.0	SL-620-SA5C-SB-0.0-0.5	SL-621-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-0.0-0.5
				N	N	N	N	N	N	N	N
				05/31/2012	05/31/2012	05/07/2012	06/05/2012	06/05/2012	05/29/2012	05/30/2012	04/25/2012
				12E267	12E267	12E049	12F037	12F037	12E229	12E244	12D231
				0	3	0	4	9	0	0	0
				0.5	4	0.5	5	10	0.5	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	21 U	22 U	23 U	23 U	22 U	22 U	22 U	21 U
8082	11097-69-1	Aroclor 1254	µg/kg	21 U	22 U	23 U	23 U	22 U	22 U	22 U	21 U
8082	11100-14-4	Aroclor 1268	µg/kg	21 U	22 U	23 U	23 U	22 U	22 U	22 U	21 U
8082	11104-28-2	Aroclor 1221	µg/kg	21 U	22 U	23 U	23 U	22 U	22 U	22 U	21 U
8082	11126-42-4	Aroclor 5460	µg/kg	42 U	43 U	45 U	46 U	44 U	43 U	44 U	43 U
8082	11141-16-5	Aroclor 1232	µg/kg	21 U	22 U	23 U	23 U	22 U	22 U	22 U	21 U
8082	12642-23-8	Aroclor 5442	µg/kg	42 U	43 U	45 U	46 U	44 U	43 U	44 U	43 U
8082	12672-29-6	Aroclor 1248	µg/kg	21 U	22 U	23 U	23 U	22 U	22 U	22 U	21 U
8082	12674-11-2	Aroclor 1016	µg/kg	21 U	22 U	23 U	23 U	22 U	22 U	22 U	21 U
8082	37324-23-5	Aroclor 1262	µg/kg	21 U	22 U	23 U	23 U	22 U	22 U	22 U	21 U
8082	53469-21-9	Aroclor 1242	µg/kg	21 U	22 U	23 U	23 U	22 U	22 U	22 U	21 U
8082	63496-31-1	Aroclor 5432	µg/kg	42 U	43 U	45 U	46 U	44 U	43 U	44 U	43 U

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 R - Result is rejected

Sample Name				SL-623-SA5C-SB-4.0-5.0	SL-623-SA5C-SB-9.0-10.0	SL-628-SA5C-SB-11.5-12.5	SL-630-SA5C-SB-8.0-9.0	SL-632-SA5C-SB-0.0-0.5	SL-632-SA5C-SB-2.0-3.0	SL-633-SA5C-SB-0.0-0.5	SL-633-SA5C-SB-2.0-3.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				07/09/2012	07/09/2012	06/20/2012	06/20/2012	04/23/2012	04/23/2012	04/20/2012	04/20/2012
SDG				12G030	12G030	12F146	12F146	12D198	12D198	12D191	12D191
Start Depth				4	9	11.5	8	0	2	0	2
End Depth				5	10	12.5	9	0.5	3	0.5	3
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	21 U	22 U	22 U	24 U	22 U	23 U	24 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	21 U	22 U	22 U	24 U	22 U	23 U	24 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	21 U	22 U	22 U	24 U	22 U	23 U	24 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	21 U	22 U	22 U	24 U	22 U	23 U	24 U
8082	11126-42-4	Aroclor 5460	µg/kg	44 U	42 U	44 U	43 U	47 U	44 U	47 U	47 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	21 U	22 U	22 U	24 U	22 U	23 U	24 U
8082	12642-23-8	Aroclor 5442	µg/kg	44 U	42 U	44 U	43 U	47 U	44 U	47 U	47 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	21 U	22 U	22 U	24 U	22 U	23 U	24 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	21 U	22 U	22 U	24 U	22 U	23 U	24 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	21 U	22 U	22 U	24 U	22 U	23 U	24 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	21 U	22 U	22 U	24 U	22 U	23 U	24 U
8082	63496-31-1	Aroclor 5432	µg/kg	44 U	42 U	44 U	43 U	47 U	44 U	47 U	47 U

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

				Sample Name	SL-634-SA5C-SB-0.0-0.5	SL-634-SA5C-SB-2.0-3.0	SL-635-SA5C-SB-0.0-0.5	SL-635-SA5C-SB-2.0-3.0	SL-636-SA5C-SB-0.0-0.5	SL-636-SA5C-SB-2.0-3.0	SL-637-SA5C-SB-0.0-0.5	SL-637-SA5C-SB-2.0-3.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/20/2012	04/20/2012	04/23/2012	04/23/2012	06/06/2012	06/06/2012	06/06/2012	06/06/2012
				SDG	12D191	12D191	12D198	12D208	12F044	12F044	12F051	12F051
				Start Depth	0	2	0	2	0	2	0	2
				End Depth	0.5	3	0.5	3	0.5	3	0.5	3
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	24 U	24 U	22 U	23 U	1400	23 U	22 U	23 U	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	24 U	24 U	14 J Z	23 U	22 U	23 U	22 U	22 U	23 U
8082	11100-14-4	Aroclor 1268	µg/kg	24 U	24 U	22 U	23 U	22 U	23 U	22 U	22 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	24 U	24 U	22 U	23 U	22 U	23 U	22 U	22 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	47 U	48 U	45 U	47 U	45 U	45 U	45 U	44 U	46 U
8082	11141-16-5	Aroclor 1232	µg/kg	24 U	24 U	22 U	23 U	22 U	23 U	22 U	22 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	47 U	48 U	45 U	47 U	45 U	45 U	44 U	44 U	46 U
8082	12672-29-6	Aroclor 1248	µg/kg	24 U	24 U	22 U	23 U	22 U	23 U	22 U	22 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	24 U	24 U	22 U	23 U	22 U	23 U	22 U	22 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	24 U	24 U	22 U	23 U	22 U	23 U	22 U	22 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	24 U	24 U	22 U	23 U	22 U	23 U	22 U	22 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	47 U	48 U	45 U	47 U	45 U	45 U	44 U	44 U	46 U

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

Sample Name				SL-638-SA5C-SB-0.0-0.5	SL-638-SA5C-SB-2.0-3.0	SL-639-SA5C-SB-0.0-0.5	SL-640-SA5C-SB-5.0-6.0	SL-640-SA5C-SB-10.0-11.0	SL-640-SA5C-SB-15.0-16.0	SL-640-SA5C-SB-19.0-20.0	SL-641-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/06/2012	06/06/2012	06/06/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
SDG				12F044	12F044	12F051	12G048	12G048	12G048	12G048	12G048
Start Depth				0	2	0	5	10	15	19	4
End Depth				0.5	3	0.5	6	11	16	20	5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	23 U	33	22 U	22 U	24 U	24 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	23 U	22 U	22 U	22 U	24 U	24 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	23 U	22 U	22 U	22 U	24 U	24 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	23 U	22 U	22 U	22 U	24 U	24 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	46 U	45 U	43 U	45 U	45 U	47 U	48 U	45 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	23 U	22 U	22 U	22 U	24 U	24 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	46 U	45 U	43 U	45 U	45 U	47 U	48 U	45 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	23 U	22 U	22 U	22 U	24 U	24 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	23 U	22 U	22 U	22 U	24 U	24 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	23 U	22 U	22 U	22 U	24 U	24 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	23 U	22 U	22 U	22 U	24 U	24 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	46 U	45 U	43 U	45 U	45 U	47 U	48 U	45 U

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Sample Name				SL-641-SA5C-SB-9.0-10.0	SL-641-SA5C-SB-14.0-15.0	SL-641-SA5C-SB-18.5-19.5	SL-642-SA5C-SB-4.0-5.0	SL-642-SA5C-SB-9.0-10.0	SL-642-SA5C-SB-14.0-15.0	SL-642-SA5C-SB-17.5-18.5
Sample Type				N	N	N	N	N	N	N
Sample Date				07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
SDG				12G048	12G048	12G048	12G048	12G048	12G048	12G048
Start Depth				9	14	18.5	4	9	14	17.5
End Depth				10	15	19.5	5	10	15	18.5
Analytic Method	CAS Number	Chemical Name	Unit							
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	23 U	23 U	22 U	22 U	23 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	23 U	23 U	22 U	22 U	23 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	23 U	23 U	22 U	22 U	23 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	23 U	23 U	22 U	22 U	23 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	44 U	47 U	47 U	44 U	45 U	47 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	23 U	23 U	22 U	22 U	23 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	44 U	47 U	47 U	44 U	45 U	47 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	23 U	23 U	22 U	22 U	23 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	23 U	23 U	22 U	22 U	23 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	23 U	23 U	22 U	22 U	23 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	23 U	23 U	22 U	22 U	23 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	44 U	47 U	47 U	44 U	45 U	47 U	44 U

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Sample Name				SL-643-SA5C-SB-1.0-2.0	SL-643-SA5C-SB-2.0-3.0	SL-644-SA5C-SB-1.0-2.0	SL-644-SA5C-SB-2.0-3.0	SL-670-SA5C-SB-0.0-0.5	SL-670-SA5C-SB-4.0-5.0	SL-671-SA5C-SB-0.0-0.5	SL-671-SA5C-SB-2.0-3.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/19/2012	06/19/2012	05/08/2012	05/08/2012	06/19/2012	06/19/2012	05/08/2012	05/23/2012
SDG				12F132	12F132	12E055	12E055	12F132	12F132	12E055	12E187
Start Depth				1	2	1	2	0	4	0	2
End Depth				2	3	2	3	0.5	5	0.5	3
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	41	23 U	67	82	23 U	21 U	21 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	23 U	22 U	22 U	23 U	21 U	21 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	23 U	22 U	22 U	23 U	21 U	21 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	23 U	22 U	22 U	23 U	21 U	21 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	44 U	45 U	44 U	43 U	45 U	43 U	46	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	23 U	22 U	22 U	23 U	21 U	21 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	44 U	45 U	44 U	43 U	45 U	43 U	42 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	23 U	22 U	22 U	23 U	21 U	21 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	23 U	22 U	22 U	23 U	21 U	21 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	23 U	22 U	22 U	23 U	21 U	21 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	23 U	22 U	22 U	23 U	21 U	21 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	44 U	45 U	44 U	43 U	45 U	43 U	42 U	44 U

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				Sample Name	SL-672-SA5C-SB-0.0-0.5	SL-672-SA5C-SB-4.0-5.0	SL-673-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-2.5-3.5	SL-675-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/24/2012	05/24/2012	05/08/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012
				SDG	12E204	12E204	12E055	12E187	12E187	12E187	12E187	12E187
				Start Depth	0	4	0	0	2.5	0	0	4
				End Depth	0.5	5	0.5	0.5	3.5	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	24 U	22 U	22 U	22 U	22 U	21 U	23 U	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	24 U	22 U	22 U	22 U	22 U	21 U	23 U	23 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	24 U	22 U	22 U	22 U	22 U	21 U	23 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	24 U	22 U	22 U	22 U	22 U	21 U	23 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	48 U	64	44 U	44 U	44 U	42 U	46 U	46 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	24 U	22 U	22 U	22 U	22 U	21 U	23 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	48 U	44 U	44 U	44 U	44 U	42 U	46 U	46 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	24 U	22 U	22 U	22 U	22 U	21 U	23 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	24 U	22 U	22 U	22 U	22 U	21 U	23 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	24 U	22 U	22 U	22 U	22 U	21 U	23 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	24 U	22 U	22 U	22 U	22 U	21 U	23 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	48 U	44 U	44 U	44 U	44 U	42 U	46 U	46 U

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				Sample Name	SL-976-SA5C-SB-4.0-5.0	SL-677-SA5C-SB-0.0-0.5	SL-677-SA5C-SB-4.0-5.0	SL-678-SA5C-SB-0.0-0.5	SL-678-SA5C-SB-2.5-3.5	SL-679-SA5C-SB-0.0-0.5	SL-680-SA5C-SB-0.0-0.5	SL-681-SA5C-SB-0.0-0.5
				Sample Type	FD	N	N	N	N	N	N	N
				Sample Date	05/23/2012	05/24/2012	05/24/2012	05/23/2012	05/23/2012	04/12/2012	04/17/2012	04/12/2012
				SDG	12E187	12E204	12E204	12E187	12E187	12D121	12D155	12D121
				Start Depth	4	0	4	0	2.5	0	0	0
				End Depth	5	0.5	5	0.5	3.5	0.5	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	22 U	12 J Z	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	47 U	46 U	44 U	44 U	44 U	44 U	46 U	43 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	47 U	46 U	44 U	44 U	44 U	44 U	46 U	43 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	23 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	47 U	46 U	44 U	44 U	44 U	44 U	46 U	43 U

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				Sample Name	SL-681-SA5C-SB-4.0-5.0	SL-681-SA5C-SB-7.5-8.5	SL-682-SA5C-SB-0.0-0.5	SL-682-SA5C-SB-4.0-5.0	SL-682-SA5C-SB-9.0-10.0	SL-683-SA5C-SB-0.0-0.5	SL-683-SA5C-SB-4.0-5.0	SL-683-SA5C-SB-7.0-8.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/23/2012	05/23/2012	05/22/2012	05/22/2012	05/22/2012	04/12/2012	06/13/2012	06/13/2012
				SDG	12E187	12E187	12E169	12E169	12E169	12D121	12F093	12F093
				Start Depth	4	7.5	0	4	9	0	4	7
				End Depth	5	8.5	0.5	5	10	0.5	5	8
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	22 U	22 U		23 U	23 U	22 U	21 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	22 U	22 U		23 U	23 U	20 J Z	21 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	22 U	22 U		23 U	23 U	22 U	21 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	22 U	22 U		23 U	23 U	22 U	21 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	44 U	44 U		45 U	46 U	31 J Z	43 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	22 U	22 U		23 U	23 U	22 U	21 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	44 U	44 U		45 U	46 U	45 U	43 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	22 U	22 U		23 U	23 U	22 U	21 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	22 U	22 U		23 U	23 U	22 U	21 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	22 U	22 U		23 U	23 U	22 U	21 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	22 U	22 U		23 U	23 U	22 U	21 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	44 U	44 U		45 U	46 U	45 U	43 U	44 U

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 R - Result is rejected

Sample Name				SL-684-SA5C-SB-0.0-0.5	SL-684-SA5C-SB-2.5-3.5	SL-685-SA5C-SB-0.0-0.5	SL-685-SA5C-SB-4.0-5.0	SL-685-SA5C-SB-7.0-8.0	SL-686-SA5C-SB-0.0-0.5	SL-686-SA5C-SB-4.0-5.0	SL-686-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/12/2012	06/13/2012	04/12/2012	06/13/2012	06/13/2012	04/12/2012	05/17/2012	05/17/2012
SDG				12D121	12F093	12D121	12F093	12F093	12D121	12E134	12E134
Start Depth				0	2.5	0	4	7	0	4	9
End Depth				0.5	3.5	0.5	5	8	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	24 U	21 U	22 U	22 U	23 U	22 U	22 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	24 U	21 U	22 U	22 U	23 U	22 U	22 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	24 U	21 U	22 U	22 U	23 U	22 U	22 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	24 U	21 U	22 U	22 U	23 U	22 U	22 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	47 U	43 U	44 U	43 U	45 U	44 U	44 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	24 U	21 U	22 U	22 U	23 U	22 U	22 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	47 U	43 U	44 U	43 U	45 U	44 U	44 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	24 U	21 U	22 U	22 U	23 U	22 U	22 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	24 U	21 U	22 U	22 U	23 U	22 U	22 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	24 U	21 U	22 U	22 U	23 U	22 U	22 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	24 U	21 U	22 U	22 U	23 U	22 U	22 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	47 U	43 U	44 U	43 U	45 U	44 U	44 U	44 U

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R - Result is rejected

				Sample Name	SL-687-SA5C-SB-0.0-0.5	SL-687-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-0.0-0.5	SL-688-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-9.0-10.0	SL-689-SA5C-SB-0.0-0.5	SL-689-SA5C-SB-4.0-5.0	SL-689-SA5C-SB-7.5-8.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/16/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012
				SDG	12D147	12F074	12D147	12F074	12F074	12D147	12F074	12F074
				Start Depth	0	4	0	4	9	0	4	7.5
				End Depth	0.5	5	0.5	5	10	0.5	5	8.5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	22 U	16 J Z	22 U	22 U	22 U	24 U	22 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	22 U	16 J Z	22 U	22 U	22 U	24 U	22 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	24 U	22 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	24 U	22 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	47 U	43 U	44	45 U	45 U	45 U	48 U	44 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	24 U	22 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	47 U	43 U	43 U	45 U	45 U	45 U	48 U	44 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	24 U	22 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	24 U	22 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	24 U	22 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	22 U	22 U	22 U	22 U	22 U	24 U	22 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	47 U	43 U	43 U	45 U	45 U	45 U	48 U	44 U	44 U

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

Sample Name				SL-690-SA5C-SB-0.0-0.5	SL-690-SA5C-SB-3.5-4.5	SL-691-SA5C-SB-0.0-0.5	SL-692-SA5C-SB-0.0-0.5	SL-692-SA5C-SB-5.0-6.0	SL-693-SA5C-SB-0.0-0.5	SL-693-SA5C-SB-4.0-5.0	SL-693-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/16/2012	06/12/2012	04/16/2012	04/16/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012
SDG				12D147	12F074	12D147	12D147	12F074	12D147	12F074	12F074
Start Depth				0	3.5	0	0	5	0	4	9
End Depth				0.5	4.5	0.5	0.5	6	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	31	22 U	22 U	24 U	22 U	24 U	22 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	34	22 U	22 U	24 U	22 U	24 U	22 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	22 U	22 U	24 U	22 U	24 U	22 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	22 U	22 U	24 U	22 U	24 U	22 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	51	44 U	45 U	48 U	44 U	48 U	44 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	22 U	22 U	24 U	22 U	24 U	22 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	46 U	44 U	45 U	48 U	44 U	48 U	44 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	22 U	22 U	24 U	22 U	24 U	22 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	22 U	22 U	24 U	22 U	24 U	22 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	22 U	22 U	24 U	22 U	24 U	22 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	22 U	22 U	24 U	22 U	24 U	22 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	46 U	44 U	45 U	48 U	44 U	48 U	44 U	44 U

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

				Sample Name	SL-694-SA5C-SB-0.0-0.5	SL-694-SA5C-SB-4.0-5.0	SL-694-SA5C-SB-9.0-10.0	SL-695-SA5C-SB-0.0-0.5	SL-995-SA5C-SB-0.0-0.5	SL-695-SA5C-SB-4.0-5.0	SL-695-SA5C-SB-9.0-10.0	SL-703-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	05/24/2012	05/24/2012	05/24/2012	04/26/2012	04/26/2012	05/16/2012	05/16/2012	04/26/2012
				SDG	12E204	12E204	12E204	12D256	12D256	12E116	12E116	12D256
				Start Depth	0	4	9	0	0	4	9	0
				End Depth	0.5	5	10	0.5	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	22 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	22 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	22 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	22 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	47 U	44 U	46 U	43 U	43 U	43 U	43 U	46 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	22 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	47 U	44 U	46 U	43 U	43 U	43 U	43 U	46 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	22 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	22 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	22 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	22 U	23 U	22 U	22 U	22 U	22 U	23 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	47 U	44 U	46 U	43 U	43 U	43 U	43 U	46 U	44 U

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 R - Result is rejected

Sample Name				SL-703-SA5C-SB-4.0-5.0	SL-703-SA5C-SB-9.0-10.0	SL-704-SA5C-SB-0.0-0.5	SL-704-SA5C-SB-4.0-5.0	SL-704-SA5C-SB-9.0-10.0	SL-705-SA5C-SB-0.0-0.5	SL-705-SA5C-SB-4.0-5.0	SL-705-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/18/2012	06/18/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012
SDG				12F120	12F120	12E204	12E204	12E204	12E204	12E204	12E204
Start Depth				4	9	0	4	9	0	4	9
End Depth				5	10	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	23 U	22 U	23 U	22 U	23 U	23 U	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	23 U	22 U	23 U	22 U	23 U	23 U	23 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	23 U	22 U	23 U	22 U	23 U	23 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	23 U	22 U	23 U	22 U	23 U	23 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	45 U	45 U	47 U	45 U	45 U	45 U	46 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	23 U	22 U	23 U	22 U	23 U	23 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	45 U	45 U	47 U	45 U	45 U	45 U	46 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	23 U	22 U	23 U	22 U	23 U	23 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	23 U	22 U	23 U	22 U	23 U	23 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	23 U	22 U	23 U	22 U	23 U	23 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	23 U	22 U	23 U	22 U	23 U	23 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	45 U	45 U	47 U	45 U	45 U	45 U	46 U

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R - Result is rejected

				Sample Name	SL-706-SA5C-SB-0.0-0.5	SL-706-SA5C-SB-4.0-5.0	SL-706-SA5C-SB-9.0-10.0	SL-710A-SA5C-SB-0.0-0.5	SL-710A-SA5C-SB-2.0-3.0	SL-710B-SA5C-SB-0.0-0.5	SL-710B-SA5C-SB-2.0-3.0	SL-710C-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/29/2012	05/29/2012	05/29/2012	04/30/2012	04/30/2012	04/30/2012	04/30/2012	04/30/2012
				SDG	12E229	12E229	12E229	12D275	12D275	12D275	12D275	12D275
				Start Depth	0	4	9	0	2	0	2	0
				End Depth	0.5	5	10	0.5	3	0.5	3	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	21 U	22 U	22 U	21 U	22 U	21 U	22 U	22 U	21 U
8082	11097-69-1	Aroclor 1254	µg/kg	21 U	22 U	22 U	21 U	22 U	21 U	22 U	22 U	21 U
8082	11100-14-4	Aroclor 1268	µg/kg	21 U	22 U	22 U	21 U	22 U	21 U	22 U	22 U	21 U
8082	11104-28-2	Aroclor 1221	µg/kg	21 U	22 U	22 U	21 U	22 U	21 U	22 U	22 U	21 U
8082	11126-42-4	Aroclor 5460	µg/kg	43 U	44 U	44 U	43 U	44 U	43 U	43 U	43 U	42 U
8082	11141-16-5	Aroclor 1232	µg/kg	21 U	22 U	22 U	21 U	22 U	21 U	22 U	22 U	21 U
8082	12642-23-8	Aroclor 5442	µg/kg	43 U	44 U	44 U	43 U	44 U	43 U	43 U	43 U	42 U
8082	12672-29-6	Aroclor 1248	µg/kg	21 U	22 U	22 U	21 U	22 U	21 U	22 U	22 U	21 U
8082	12674-11-2	Aroclor 1016	µg/kg	21 U	22 U	22 U	21 U	22 U	21 U	22 U	22 U	21 U
8082	37324-23-5	Aroclor 1262	µg/kg	21 U	22 U	22 U	21 U	22 U	21 U	22 U	22 U	21 U
8082	53469-21-9	Aroclor 1242	µg/kg	21 U	22 U	22 U	21 U	22 U	21 U	22 U	22 U	21 U
8082	63496-31-1	Aroclor 5432	µg/kg	43 U	44 U	44 U	43 U	44 U	43 U	43 U	43 U	42 U

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 R - Result is rejected

Sample Name				SL-710C-SA5C-SB-2.0-3.0	SL-710D-SA5C-SB-0.0-0.5	SL-710D-SA5C-SB-2.0-3.0	SL-711-SA5C-SB-0.0-0.5	SL-711-SA5C-SB-4.0-5.0	SL-711-SA5C-SB-9.0-10.0	SL-712-SA5C-SB-0.0-0.5	SL-712-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/30/2012	04/30/2012	04/30/2012	04/26/2012	06/14/2012	06/14/2012	04/30/2012	06/14/2012
SDG				12D275	12D275	12D275	12D256	12F102	12F102	12D275	12F102
Start Depth				2	0	2	0	4	9	0	4
End Depth				3	0.5	3	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	21 U	23 U	21 U	22 U	22 U	21 U	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	21 U	23 U	21 U	22 U	22 U	11 J Z	23 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	21 U	23 U	21 U	22 U	22 U	21 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	21 U	23 U	21 U	22 U	22 U	21 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	46 U	42 U	46 U	42 U	44 U	43 U	42 U	45 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	21 U	23 U	21 U	22 U	22 U	21 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	46 U	42 U	46 U	42 U	44 U	43 U	42 U	45 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	21 U	23 U	21 U	22 U	22 U	21 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	21 U	23 U	21 U	22 U	22 U	21 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	21 U	23 U	21 U	22 U	22 U	21 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	21 U	23 U	21 U	22 U	22 U	21 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	46 U	42 U	46 U	42 U	44 U	43 U	42 U	45 U

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				Sample Name	SL-712-SA5C-SB-9.0-10.0	SL-713-SA5C-SB-0.0-0.5	SL-713-SA5C-SB-6.0-7.0	SL-715-SA5C-SB-0.0-0.5	SL-715-SA5C-SB-6.0-7.0	SL-716-SA5C-SB-0.0-0.5	SL-716-SA5C-SB-5.5-6.5	SL-717-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/14/2012	04/30/2012	06/14/2012	04/30/2012	06/14/2012	05/02/2012	06/13/2012	05/02/2012
				SDG	12F102	12D275	12F102	12D275	12F102	12E018	12F102	12E018
				Start Depth	9	0	6	0	6	0	5.5	0
				End Depth	10	0.5	7	0.5	7	0.5	6.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	21 U	22 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	78	22 U	23	21 U	21 U	21 U	22 U	21 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	21 U	22 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	21 U	22 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	43 U	43 U	42 U	43 U	42 U	42 U	43 U	41 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	21 U	22 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	43 U	43 U	42 U	43 U	42 U	42 U	43 U	41 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	21 U	22 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	21 U	22 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	21 U	22 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	21 U	22 U	21 U	21 U	21 U	21 U	22 U	21 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	43 U	43 U	42 U	43 U	42 U	42 U	43 U	41 U

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Sample Name				SL-717-SA5C-SB-6.0-7.0	SL-718-SA5C-SB-0.0-0.5	SL-718-SA5C-SB-4.0-5.0	SL-718-SA5C-SB-8.0-9.0	SL-719-SA5C-SB-0.0-0.5	SL-719-SA5C-SB-6.0-7.0	SL-720-SA5C-SB-0.0-0.5	SL-720-SA5C-SB-4.5-5.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/13/2012	05/02/2012	06/13/2012	06/13/2012	05/02/2012	06/14/2012	04/30/2012	06/13/2012
SDG				12F093	12E018	12F093	12F093	12E018	12F102	12D275	12F093
Start Depth				6	0	4	8	0	6	0	4.5
End Depth				7	0.5	5	9	0.5	7	0.5	5.5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	44 U	42 U	41 U	45 U	42 U	43 U	43 U	45 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	44 U	42 U	41 U	45 U	42 U	43 U	43 U	45 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	21 U	21 U	22 U	21 U	22 U	21 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	44 U	42 U	41 U	45 U	42 U	43 U	43 U	45 U

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Sample Name				SL-1022-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-6.0-7.0	SL-723-SA5C-SB-0.0-0.5	SL-723-SA5C-SB-4.0-5.0	SL-723-SA5C-SB-9.0-10.0	SL-724-SA5C-SB-0.0-0.5	SL-724-SA5C-SB-4.0-5.0
Sample Type				FD	N	N	N	N	N	N	N
Sample Date				05/01/2012	05/01/2012	06/13/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012
SDG				12E004	12E004	12F093	12E229	12E229	12E229	12E229	12E229
Start Depth				0	0	6	0	4	9	0	4
End Depth				0.5	0.5	7	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	21 U	21 U	22 U	21 U	23 U	22 U	23 U	23 U
8082	11097-69-1	Aroclor 1254	µg/kg	21 U	21 U	22 U	21 U	23 U	22 U	23 U	23 U
8082	11100-14-4	Aroclor 1268	µg/kg	21 U	21 U	22 U	21 U	23 U	22 U	23 U	23 U
8082	11104-28-2	Aroclor 1221	µg/kg	21 U	21 U	22 U	21 U	23 U	22 U	23 U	23 U
8082	11126-42-4	Aroclor 5460	µg/kg	42 U	42 U	44 U	42 U	45 U	43 U	46 U	46 U
8082	11141-16-5	Aroclor 1232	µg/kg	21 U	21 U	22 U	21 U	23 U	22 U	23 U	23 U
8082	12642-23-8	Aroclor 5442	µg/kg	42 U	42 U	44 U	42 U	45 U	43 U	46 U	46 U
8082	12672-29-6	Aroclor 1248	µg/kg	21 U	21 U	22 U	21 U	23 U	22 U	23 U	23 U
8082	12674-11-2	Aroclor 1016	µg/kg	21 U	21 U	22 U	21 U	23 U	22 U	23 U	23 U
8082	37324-23-5	Aroclor 1262	µg/kg	21 U	21 U	22 U	21 U	23 U	22 U	23 U	23 U
8082	53469-21-9	Aroclor 1242	µg/kg	21 U	21 U	22 U	21 U	23 U	22 U	23 U	23 U
8082	63496-31-1	Aroclor 5432	µg/kg	42 U	42 U	44 U	42 U	45 U	43 U	46 U	46 U

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 R - Result is rejected

Sample Name				SL-724-SA5C-SB-9.0-10.0	SL-727-SA5C-SB-0.0-0.5	SL-1027-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-9.0-10.0	SL-733-SA5C-SB-0.0-0.5	SL-733-SA5C-SB-4.0-5.0	SL-733-SA5C-SB-9.0-10.0
Sample Type				N	N	FD	N	N	N	N	N
Sample Date				05/29/2012	05/21/2012	05/21/2012	05/21/2012	05/21/2012	05/22/2012	05/22/2012	05/22/2012
SDG				12E229	12E155	12E155	12E155	12E155	12E169	12E169	12E169
Start Depth				9	0	4	4	9	0	4	9
End Depth				10	0.5	5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	22 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	22 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	22 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	22 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	46 U	44 U	45 U	45 U	45 U	44 U	44 U	45 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	22 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	46 U	44 U	45 U	45 U	45 U	44 U	44 U	45 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	22 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	22 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	22 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	22 U	23 U	23 U	22 U	22 U	22 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	46 U	44 U	45 U	45 U	45 U	44 U	44 U	45 U

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

Sample Name				SL-734-SA5C-SB-0.0-0.5	SL-734-SA5C-SB-4.0-5.0	SL-734-SA5C-SB-9.0-10.0	SL-735-SA5C-SB-0.0-0.5	SL-735-SA5C-SB-4.0-5.0	SL-735-SA5C-SB-9.0-10.0	SL-737-SA5C-SB-0.0-0.5	SL-737-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/21/2012	05/21/2012	05/21/2012	04/12/2012	05/17/2012	05/17/2012	04/12/2012	05/17/2012
SDG				12E155	12E155	12E155	12D121	12E134	12E134	12D121	12E134
Start Depth				0	4	9	0	4	9	0	4
End Depth				0.5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	23 U	22 U	22 U	22 U	22 U	22 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	23 U	22 U	22 U	22 U	22 U	22 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	23 U	22 U	22 U	22 U	22 U	22 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	23 U	22 U	22 U	22 U	22 U	22 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	44 U	45 U	45 U	44 U	44 U	45 U	43 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	23 U	22 U	22 U	22 U	22 U	22 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	44 U	45 U	45 U	44 U	44 U	45 U	43 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	23 U	22 U	22 U	22 U	22 U	22 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	23 U	22 U	22 U	22 U	22 U	22 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	23 U	22 U	22 U	22 U	22 U	22 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	23 U	22 U	22 U	22 U	22 U	22 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	44 U	45 U	45 U	44 U	44 U	45 U	43 U	44 U

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Sample Name				SL-737-SA5C-SB-9.0-10.0	SL-738-SA5C-SB-0.0-0.5	SL-738-SA5C-SB-4.0-5.0	SL-738-SA5C-SB-9.0-10.0	SL-739-SA5C-SB-0.0-0.5	SL-739-SA5C-SB-4.0-5.0	SL-739-SA5C-SB-9.0-10.0EX	SL-741-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/24/2012	07/24/2012
SDG				12E134	12E134	12E134	12E134	12E134	12E134	12E204	12G199
Start Depth				9	0	4	9	0	4	9	0
End Depth				10	0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	22 U	22 U	22 U	23 U	22 U	22 U	22 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	22 U	22 U	22 U	23 U	22 U	22 U	22 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	22 U	22 U	22 U	23 U	22 U	22 U	22 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	22 U	22 U	22 U	23 U	22 U	22 U	22 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	44 U	44 U	45 U	45 U	43 U	45 U	45 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	22 U	22 U	22 U	23 U	22 U	22 U	22 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	44 U	44 U	45 U	45 U	43 U	45 U	45 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	22 U	22 U	22 U	23 U	22 U	22 U	22 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	22 U	22 U	22 U	23 U	22 U	22 U	22 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	22 U	22 U	22 U	23 U	22 U	22 U	22 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	22 U	22 U	22 U	23 U	22 U	22 U	22 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	44 U	44 U	45 U	45 U	43 U	45 U	45 U	44 U

U - Compound not detected above the reporting limit

J - Result is an estimated value

R - Result is rejected

				Sample Name	SL-741-SA5C-SB-4.0-5.0	SL-741-SA5C-SB-9.0-10.0	SL-742-SA5C-SB-0.0-0.5	SL-744A-SA5C-SB-0.0-0.5	SL-744A-SA5C-SB-1.5-2.5	SL-744B-SA5C-SB-0.0-0.5	SL-744B-SA5C-SB-2.0-3.0	SL-744C-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	07/24/2012	07/24/2012	07/24/2012	04/16/2012	04/16/2012	04/16/2012	04/16/2012	04/16/2012
				SDG	12G199	12G199	12G199	12D147	12D155	12D155	12D155	12D155
				Start Depth	4	9	0	0	1.5	0	2	0
				End Depth	5	10	0.5	0.5	2.5	0.5	3	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8082	11096-82-5	Aroclor 1260	µg/kg	23 U	23 U	22 U	23 U	22 U	24 U	22 U	22 U	24 U
8082	11097-69-1	Aroclor 1254	µg/kg	23 U	23 U	22 U	23 U	22 U	24 U	22 U	22 U	24 U
8082	11100-14-4	Aroclor 1268	µg/kg	23 U	23 U	22 U	23 U	22 U	24 U	22 U	22 U	24 U
8082	11104-28-2	Aroclor 1221	µg/kg	23 U	23 U	22 U	23 U	22 U	24 U	22 U	22 U	24 U
8082	11126-42-4	Aroclor 5460	µg/kg	45 U	46 U	44 U	46 U	43 U	48 U	44 U	44 U	47 U
8082	11141-16-5	Aroclor 1232	µg/kg	23 U	23 U	22 U	23 U	22 U	24 U	22 U	22 U	24 U
8082	12642-23-8	Aroclor 5442	µg/kg	45 U	46 U	44 U	46 U	43 U	48 U	44 U	44 U	47 U
8082	12672-29-6	Aroclor 1248	µg/kg	23 U	23 U	22 U	23 U	22 U	24 U	22 U	22 U	24 U
8082	12674-11-2	Aroclor 1016	µg/kg	23 U	23 U	22 U	23 U	22 U	24 U	22 U	22 U	24 U
8082	37324-23-5	Aroclor 1262	µg/kg	23 U	23 U	22 U	23 U	22 U	24 U	22 U	22 U	24 U
8082	53469-21-9	Aroclor 1242	µg/kg	23 U	23 U	22 U	23 U	22 U	24 U	22 U	22 U	24 U
8082	63496-31-1	Aroclor 5432	µg/kg	45 U	46 U	44 U	46 U	43 U	48 U	44 U	44 U	47 U

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 R - Result is rejected

Sample Name				SL-744C-SA5C-SB-2.0-3.0	SL-747-SA5C-SB-0.0-0.5	SL-747-SA5C-SB-2.5-3.5	SL-750-SA5C-SB-0.0-0.5	SL-750-SA5C-SB-5.5-6.5	SL-752-SA5C-SB-0.0-0.5	SL-754-SA5C-SB-0.0-0.5	SL-754-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/16/2012	04/17/2012	06/26/2012	05/29/2012	05/29/2012	05/30/2012	07/09/2012	07/09/2012
SDG				12D155	12D155	12F197	12E229	12E229	12E244	12G030	12G030
Start Depth				2	0	2.5	0	5.5	0	0	4
End Depth				3	0.5	3.5	0.5	6.5	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8082	11096-82-5	Aroclor 1260	µg/kg	21 U	24 U	22 U	22 U	22 U	23 U	21 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	21 U	27	22 U	22 U	22 U	23 U	21 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	21 U	24 U	22 U	22 U	22 U	23 U	21 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	21 U	24 U	22 U	22 U	22 U	23 U	21 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	43 U	47 U	44 U	44 U	44 U	46 U	42 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	21 U	24 U	22 U	22 U	22 U	23 U	21 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	43 U	47 U	44 U	44 U	44 U	46 U	42 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	21 U	24 U	22 U	22 U	22 U	23 U	21 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	21 U	24 U	22 U	22 U	22 U	23 U	21 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	21 U	24 U	22 U	22 U	22 U	23 U	21 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	21 U	24 U	22 U	22 U	22 U	23 U	21 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	43 U	47 U	44 U	44 U	44 U	46 U	42 U	44 U

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R - Result is rejected

				Sample Name	SL-754-SA5C-SB-6.5-7.5	SL-755-SA5C-SB-0.0-0.5	SL-755-SA5C-SB-4.0-5.0	SL-755-SA5C-SB-5.5-6.5
				Sample Type	N	N	N	N
				Sample Date	07/09/2012	07/10/2012	07/10/2012	07/10/2012
				SDG	12G030	12G048	12G048	12G048
				Start Depth	6.5	0	4	5.5
				End Depth	7.5	0.5	5	6.5
Analytic Method	CAS Number	Chemical Name	Unit					
8082	11096-82-5	Aroclor 1260	µg/kg	21 U	15 J Z	22 U	22 U	22 U
8082	11097-69-1	Aroclor 1254	µg/kg	21 U	28	22 U	22 U	22 U
8082	11100-14-4	Aroclor 1268	µg/kg	21 U	21 U	22 U	22 U	22 U
8082	11104-28-2	Aroclor 1221	µg/kg	21 U	21 U	22 U	22 U	22 U
8082	11126-42-4	Aroclor 5460	µg/kg	42 U	43 U	44 U	44 U	44 U
8082	11141-16-5	Aroclor 1232	µg/kg	21 U	21 U	22 U	22 U	22 U
8082	12642-23-8	Aroclor 5442	µg/kg	42 U	43 U	44 U	44 U	44 U
8082	12672-29-6	Aroclor 1248	µg/kg	21 U	21 U	22 U	22 U	22 U
8082	12674-11-2	Aroclor 1016	µg/kg	21 U	21 U	22 U	22 U	22 U
8082	37324-23-5	Aroclor 1262	µg/kg	21 U	21 U	22 U	22 U	22 U
8082	53469-21-9	Aroclor 1242	µg/kg	21 U	21 U	22 U	22 U	22 U
8082	63496-31-1	Aroclor 5432	µg/kg	42 U	43 U	44 U	44 U	44 U

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 R - Result is rejected

Sample Name				SL-501-SA5C-SB-0.0-0.5	SL-501-SA5C-SB-4.0-5.0	SL-502-SA5C-SB-0.0-0.5	SL-802-SA5C-SB-0.0-0.5	SL-502-SA5C-SB-4.5-5.5	SL-507-SA5C-SB-0.0-0.5	SL-507-SA5C-SB-2.5-3.5	SL-508-SA5C-SB-0.0-0.5
Sample Type				N	N	N	FD	N	N	N	N
Sample Date				04/20/2012	06/28/2012	04/20/2012	04/20/2012	06/28/2012	04/20/2012	06/11/2012	04/20/2012
SDG				12D191	12F232	12D191	12D191	12F232	12D191	12F071	12D191
Start Depth				0	4	0	0	4.5	0	2.5	0
End Depth				0.5	5	0.5	0.5	5.5	0.5	3.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.54 U	5.59 U	5.93 U	5.75 U	5.56 U	5.52 U	5.45 U	5.46 U

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 R - Result is rejected

				SL-508-SA5C-SB-4.0-5.0	SL-508-SA5C-SB-6.5-7.5	SL-509-SA5C-SB-0.0-0.5	SL-509-SA5C-SB-4.0-5.0	SL-809-SA5C-SB-4.0-5.0	SL-509-SA5C-SB-9.0-10.0	SL-510-SA5C-SB-0.0-0.5	SL-512A-SA5C-SB-0.0-0.5
Sample Name				N	N	N	N	FD	N	N	N
Sample Type											
Sample Date				06/11/2012	06/11/2012	04/20/2012	06/11/2012	06/11/2012	06/11/2012	04/19/2012	04/23/2012
SDG				12F071	12F071	12D191	12F071	12F071	12F071	12D175	12D198
Start Depth				4	6.5	0	4	4	9	0	0
End Depth				5	7.5	0.5	5	5	10	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.51 U	5.35 U	5.39 U	5.43 U	5.48 U	5.44 U	6.01 U	5.66 U

				SL-512-SA5C-SB-0.0-0.5	SL-812-SA5C-SB-0.0-0.5	SL-512-SA5C-SB-4.0-5.0	SL-512-SA5C-SB-6.0-7.0	SL-513-SA5C-SB-0.0-0.5	SL-513-SA5C-SB-4.0-5.0	SL-513-SA5C-SB-9.0-10.0	SL-514-SA5C-SB-0.0-0.5
Sample Name				N	FD	N	N	N	N	N	N
Sample Type				05/10/2012	05/10/2012	05/10/2012	05/10/2012	04/19/2012	05/10/2012	05/14/2012	04/17/2012
Sample Date				12E082	12E082	12E082	12E082	12D175	12E082	12E098	12D155
SDG				0	0	4	6	0	4	9	0
Start Depth				0.5	0.5	5	7	0.5	5	10	0.5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.49 U	5.52 U	5.79 U	5.75 U	5.84 U	5.64 U	5.69 U	5.81 U

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

				SL-814-SA5C-SB-0.0-0.5	SL-514-SA5C-SB-4.0-5.0	SL-514-SA5C-SB-9.0-10.0	SL-515-SA5C-SB-0.0-0.5	SL-515-SA5C-SB-4.0-5.0	SL-515-SA5C-SB-9.0-10.0	SL-517-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-0.0-0.5
Sample Name				FD	N	N	N	N	N	N	N
Sample Type				04/17/2012	05/14/2012	05/14/2012	04/19/2012	06/25/2012	06/25/2012	04/19/2012	04/19/2012
Sample Date				12D155	12E098	12E098	12D175	12F182	12F182	12D175	12D175
SDG				0	4	9	0	4	9	0	0
Start Depth				0.5	5	10	0.5	5	10	0.5	0.5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.80 U	5.35 U	5.36 U	5.56 U	5.68 U	5.49 U	5.40 U	5.16 U

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

				SL-518-SA5C-SB-4.0-5.0	SL-518-SA5C-SB-9.0-10.0	SL-520-SA5C-SB-0.0-0.5	SL-520-SA5C-SB-6.5-7.5	SL-521-SA5C-SB-0.0-0.5	SL-521-SA5C-SB-4.0-5.0	SL-521-SA5C-SB-9.0-10.0	SL-522-SA5C-SB-0.0-0.5
Sample Name				N	N	N	N	N	N	N	N
Sample Type				06/11/2012	06/11/2012	04/23/2012	06/11/2012	06/11/2012	06/11/2012	06/11/2012	04/25/2012
Sample Date				12F071	12F071	12D198	12F071	12F071	12F071	12F071	12D231
SDG				4	9	0	6.5	0	4	9	0
Start Depth				5	10	0.5	7.5	0.5	5	10	0.5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.59 U	5.45 U	5.52 U	5.33 U	5.69 U	5.66 U	5.68 U	5.43 U

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

				SL-522-SA5C-SB-4.0-5.0	SL-822-SA5C-SB-4.0-5.0	SL-522-SA5C-SB-9.0-10.0	SL-523-SA5C-SB-0.0-0.5	SL-523-SA5C-SB-4.0-5.0	SL-523-SA5C-SB-9.0-10.0	SL-526-SA5C-SB-0.0-0.5	SL-530-SA5C-SB-0.0-0.5
Sample Name				N	FD	N	N	N	N	N	N
Sample Type				07/09/2012	07/09/2012	07/09/2012	04/25/2012	07/09/2012	07/09/2012	04/25/2012	04/25/2012
Sample Date				12G030	12G030	12G030	12D231	12G030	12G030	12D231	12D231
SDG				4	4	9	0	4	9	0	0
Start Depth				5	5	10	0.5	5	10	0.5	0.5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.42 U	5.52 U	5.39 U	5.22 U	5.30 U	5.49 U	5.54 U	5.34 U

				SL-530-SA5C-SB-4.0-5.0	SL-530-SA5C-SB-9.0-10.0	SL-531-SA5C-SB-0.0-0.5	SL-531-SA5C-SB-4.0-5.0	SL-531-SA5C-SB-9.0-10.0	SL-533-SA5C-SB-0.0-0.5	SL-533-SA5C-SB-4.0-5.0	SL-533-SA5C-SB-9.0-10.0
Sample Name				N	N	N	N	N	N	N	N
Sample Type				07/09/2012	07/09/2012	04/25/2012	07/09/2012	07/09/2012	04/23/2012	07/09/2012	07/09/2012
Sample Date				12G030	12G030	12D231	12G030	12G030	12D198	12G030	12G030
SDG				4	9	0	4	9	0	4	9
Start Depth				5	10	0.5	5	10	0.5	5	10
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.61 U	5.25 U	5.40 U	5.53 U	5.52 U	5.29 U	5.49 U	5.53 U

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

				SL-570-SA5C-SB-0.0-0.5	SL-570-SA5C-SB-2.0-3.0	SL-571-SA5C-SB-4.0-5.0	SL-571-SA5C-SB-9.0-10.0	SL-574-SA5C-SB-0.0-0.5	SL-574-SA5C-SB-4.0-5.0	SL-574-SA5C-SB-9.0-10.0	SL-575-SA5C-SB-0.0-0.5
Sample Name				N	N	N	N	N	N	N	N
Sample Type				04/18/2012	04/18/2012	06/07/2012	06/07/2012	04/20/2012	06/11/2012	06/11/2012	04/19/2012
Sample Date				12D165	12D165	12F051	12F051	12D191	12F071	12F071	12D175
SDG				0	2	4	9	0	4	9	0
Start Depth				0.5	3	5	10	0.5	5	10	0.5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.46 U	5.43 U	5.59 U	5.61 U	5.83 U	5.52 U	5.72 U	5.86 U

				SL-575-SA5C-SB-4.0-5.0	SL-577-SA5C-SB-0.0-0.5	SL-578-SA5C-SB-0.0-0.5	SL-578-SA5C-SB-4.0-5.0	SL-579-SA5C-SB-0.0-0.5	SL-579-SA5C-SB-4.0-5.0	SL-580-SA5C-SB-0.0-0.5	SL-580-SA5C-SB-4.0-5.0
Sample Name				N	N	N	N	N	N	N	N
Sample Type				06/25/2012	04/17/2012	04/17/2012	06/27/2012	04/18/2012	04/18/2012	04/18/2012	04/18/2012
Sample Date				12F182	12D155	12D155	12F215	12D165	12D165	12D165	12D165
SDG				4	0	0	4	0	4	0	4
Start Depth				5	0.5	0.5	5	0.5	5	0.5	5
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.52 U	5.86 U	5.73 U	5.53 U	5.62 U	5.52 U	5.73 U	5.61 U

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

				SL-581-SA5C-SB-0.0-0.5	SL-581-SA5C-SB-4.0-5.0	SL-881-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-0.0-0.5	SL-586-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-9.0-10.0	SL-594-SA5C-SB-0.0-0.5	SL-594-SA5C-SB-5.0-6.0
Sample Name				N	N	FD	N	N	N	N	N
Sample Type				04/17/2012	06/26/2012	06/26/2012	05/07/2012	07/11/2012	07/11/2012	06/21/2012	06/21/2012
Sample Date				12D155	12F197	12F197	12E049	12G064	12G064	12F162	12F162
SDG				0	4	4	0	4	9	0	5
Start Depth				0.5	5	5	0.5	5	10	0.5	6
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.66 U	5.65 U	5.65 U	5.54 U	5.41 U	5.66 U	5.75 U	5.76 U

U - Compound not detected above the reporting limit  
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				Sample Name	SL-594-SA5C-SB-9.0-10.0	SL-599-SA5C-SB-0.0-0.5	SL-599-SA5C-SB-4.0-5.0	SL-600-SA5C-SB-0.0-0.5	SL-600-SA5C-SB-4.0-5.0	SL-602-SA5C-SB-0.0-0.5	SL-602-SA5C-SB-4.0-5.0	SL-603-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/21/2012	05/02/2012	06/21/2012	05/02/2012	06/21/2012	05/02/2012	06/21/2012	05/03/2012
				SDG	12F162	12E018	12F162	12E018	12F162	12E034	12F162	12E034
				Start Depth	9	0	4	0	4	0	4	0
				End Depth	10	0.5	5	0.5	5	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	6.12 U	5.41 U	5.27 U	6.00 U	5.33 U	5.44 U	5.20 U	5.43 U	

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 R - Result is rejected

				SL-903-SA5C-SB-0.0-0.5	SL-603-SA5C-SB-4.0-5.0	SL-604-SA5C-SB-0.0-0.5	SL-604-SA5C-SB-4.0-5.0	SL-606-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-4.0-5.0	SL-607-SA5C-SB-9.0-10.0
Sample Name				FD	N	N	N	N	N	N	N
Sample Type				05/03/2012	06/21/2012	05/02/2012	06/20/2012	05/03/2012	07/11/2012	07/11/2012	07/11/2012
Sample Date				12E034	12F162	12E018	12F146	12E034	12G064	12G064	12G064
SDG				0	4	0	4	0	0	4	9
Start Depth				0.5	5	0.5	5	0.5	0.5	5	10
End Depth											
Analytic Method	CAS Number	Chemical Name	Unit								
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.36 U	5.54 U	5.62 U	5.30 U	5.24 U	5.62 U	5.75 U	5.64 U

U - Compound not detected above the reporting limit  
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 R - Result is rejected

				Sample Name	SL-611-SA5C-SB-0.0-0.5	SL-611-SA5C-SB-5.0-6.0	SL-612-SA5C-SB-0.0-0.5	SL-612-SA5C-SB-4.0-5.0	SL-912-SA5C-SB-4.0-5.0	SL-612-SA5C-SB-7.0-8.0	SL-615-SA5C-SB-0.0-0.5	SL-615-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	05/31/2012	05/31/2012	05/03/2012	05/31/2012	05/31/2012	05/31/2012	05/07/2012	06/05/2012
				SDG	12E267	12E267	12E034	12E267	12E267	12E267	12E049	12F037
				Start Depth	0	5	0	4	4	7	0	4
				End Depth	0.5	6	0.5	5	5	8	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.48 U	5.62 U	5.36 U	5.39 U	5.35 U	5.56 U	5.64 U	5.77 U	

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 R - Result is rejected

				Sample Name	SL-615-SA5C-SB-9.0-10.0	SL-618-SA5C-SB-0.0-1.0	SL-620-SA5C-SB-0.0-0.5	SL-621-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-4.0-5.0	SL-623-SA5C-SB-9.0-10.0	SL-628-SA5C-SB-11.5-12.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/05/2012	05/30/2012	05/29/2012	05/30/2012	04/25/2012	07/09/2012	07/09/2012	06/20/2012
				SDG	12F037	12E267	12E229	12E244	12D231	12G030	12G030	12F146
				Start Depth	9	0	0	0	0	4	9	11.5
				End Depth	10	1	0.5	0.5	0.5	5	10	12.5
Analytic Method	CAS Number	Chemical Name	Unit									
314	14797-73-0	Perchlorate	µg/kg	--	20.9 U	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.51 U	--	5.38 U	5.44 U	5.36 U	5.50 U	5.25 U	5.46 U	

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 R - Result is rejected

				SL-630-SA5C-SB-8.0-9.0	SL-640-SA5C-SB-5.0-6.0	SL-640-SA5C-SB-10.0-11.0	SL-640-SA5C-SB-15.0-16.0	SL-640-SA5C-SB-19.0-20.0	SL-641-SA5C-SB-4.0-5.0	SL-641-SA5C-SB-9.0-10.0
Sample Name				N	N	N	N	N	N	N
Sample Type				06/20/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
Sample Date				12F146	12G048	12G048	12G048	12G048	12G048	12G048
SDG				8	5	10	15	19	4	9
Start Depth				9	6	11	16	20	5	10
End Depth										
Analytic Method	CAS Number	Chemical Name	Unit							
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.42 U	5.62 U	5.62 U	5.91 U	6.02 U	5.62 U	5.47 U

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				Sample Name	SL-641-SA5C-SB-14.0-15.0	SL-641-SA5C-SB-18.5-19.5	SL-642-SA5C-SB-4.0-5.0	SL-642-SA5C-SB-9.0-10.0	SL-642-SA5C-SB-14.0-15.0	SL-642-SA5C-SB-17.5-18.5	SL-674-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N
				Sample Date	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	05/23/2012
				SDG	12G048	12G048	12G048	12G048	12G048	12G048	12E187
				Start Depth	14	18.5	4	9	14	17.5	0
				End Depth	15	19.5	5	10	15	18.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.85 U	5.87 U	5.56 U	5.62 U	5.82 U	5.54 U	5.53 U	

				Sample Name	SL-674-SA5C-SB-2.5-3.5	SL-754-SA5C-SB-0.0-0.5	SL-754-SA5C-SB-4.0-5.0	SL-754-SA5C-SB-6.5-7.5
				Sample Type	N	N	N	N
				Sample Date	05/23/2012	07/09/2012	07/09/2012	07/09/2012
				SDG	12E187	12G030	12G030	12G030
				Start Depth	2.5	0	4	6.5
				End Depth	3.5	0.5	5	7.5
Analytic Method	CAS Number	Chemical Name	Unit					
314	14797-73-0	Perchlorate	µg/kg	--	--	--	--	--
6850	14797-73-0	Perchlorate	µg/kg	5.48 U	5.26 U	5.56 U	5.27 U	

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Sample Name				SL-615-SA5C-SB-0.0-0.5	SL-615-SA5C-SB-4.0-5.0	SL-615-SA5C-SB-9.0-10.0	SL-675-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-4.0-5.0	SL-976-SA5C-SB-4.0-5.0	SL-678-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	FD	N
Sample Date				05/07/2012	06/05/2012	06/05/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012
SDG				12E049	12F037	12F037	12E187	12E187	12E187	12E187	12E187
Start Depth				0	4	9	0	0	4	4	0
End Depth				0.5	5	10	0.5	0.5	5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8081A	1024-57-3	Heptachlor Epoxide	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	1031-07-8	Endosulfan Sulfate	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	12789-03-6	Chlordane (Technical)	µg/kg	11 U	12 U	11 U	11 U	11 U	11 U	11 U	11 U
8081A	2385-85-5	Mirex	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	309-00-2	Aldrin	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	319-84-6	Alpha-Bhc	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	319-85-7	Beta-Bhc	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	319-86-8	Delta-Bhc	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	33213-65-9	Endosulfan II	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	50-29-3	4,4'-DDT	µg/kg	1.9 J Z	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	53494-70-5	Endrin Ketone	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	58-89-9	Gamma-Bhc (Lindane)	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	60-57-1	Dieldrin	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	72-20-8	Endrin	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	72-43-5	Methoxychlor	µg/kg	5.6 U	5.8 U	5.5 U	5.3 U	5.7 U	5.7 U	5.6 U	5.5 U
8081A	72-54-8	4,4'-DDD	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	72-55-9	4,4'-DDE	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	7421-93-4	Endrin Aldehyde	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	76-44-8	Heptachlor	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U
8081A	8001-35-2	Technical Toxaphene	µg/kg	56 U	58 U	55 U	53 U	57 U	57 U	56 U	55 U
8081A	959-98-8	Endosulfan I	µg/kg	2.3 U	2.3 U	2.2 U	2.1 U	2.3 U	2.3 U	2.2 U	2.2 U

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				Sample Name	SL-678-SA5C-SB-2.5-3.5
				Sample Type	N
				Sample Date	05/23/2012
				SDG	12E187
				Start Depth	2.5
				End Depth	3.5
Analytic Method	CAS Number	Chemical Name	Unit		
8081A	1024-57-3	Heptachlor Epoxide	µg/kg	2.2	U
8081A	1031-07-8	Endosulfan Sulfate	µg/kg	2.2	U
8081A	12789-03-6	Chlordane (Technical)	µg/kg	11	U
8081A	2385-85-5	Mirex	µg/kg	2.2	U
8081A	309-00-2	Aldrin	µg/kg	2.2	U
8081A	319-84-6	Alpha-Bhc	µg/kg	2.2	U
8081A	319-85-7	Beta-Bhc	µg/kg	2.2	U
8081A	319-86-8	Delta-Bhc	µg/kg	2.2	U
8081A	33213-65-9	Endosulfan II	µg/kg	2.2	U
8081A	50-29-3	4,4'-DDT	µg/kg	2.2	U
8081A	53494-70-5	Endrin Ketone	µg/kg	2.2	U
8081A	58-89-9	Gamma-Bhc (Lindane)	µg/kg	2.2	U
8081A	60-57-1	Dieldrin	µg/kg	2.2	U
8081A	72-20-8	Endrin	µg/kg	2.2	U
8081A	72-43-5	Methoxychlor	µg/kg	5.5	U
8081A	72-54-8	4,4'-DDD	µg/kg	2.2	U
8081A	72-55-9	4,4'-DDE	µg/kg	2.2	U
8081A	7421-93-4	Endrin Aldehyde	µg/kg	2.2	U
8081A	76-44-8	Heptachlor	µg/kg	2.2	U
8081A	8001-35-2	Technical Toxaphene	µg/kg	55	U
8081A	959-98-8	Endosulfan I	µg/kg	2.2	U

				Sample Name	SL-501-SA5C-SB-0.0-0.5	SL-501-SA5C-SB-4.0-5.0	SL-502-SA5C-SB-0.0-0.5	SL-802-SA5C-SB-0.0-0.5	SL-502-SA5C-SB-4.5-5.5	SL-507-SA5C-SB-0.0-0.5	SL-507-SA5C-SB-2.5-3.5	SL-508-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	FD	N	N	N	N
				Sample Date	04/20/2012	06/28/2012	04/20/2012	04/20/2012	06/28/2012	04/20/2012	06/11/2012	04/20/2012
				SDG	12D191	12F232	12D191	12D191	12F232	12D191	12F071	12D191
				Start Depth	0	4	0	0	4.5	0	2.5	0
				End Depth	0.5	5	0.5	0.5	5.5	0.5	3.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		7.88	6.77	7.37	7.5	8.18	6.65	7.2	7.58

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				Sample Name	SL-508-SA5C-SB-4.0-5.0	SL-508-SA5C-SB-6.5-7.5	SL-509-SA5C-SB-0.0-0.5	SL-509-SA5C-SB-4.0-5.0	SL-809-SA5C-SB-4.0-5.0	SL-509-SA5C-SB-9.0-10.0	SL-510-SA5C-SB-0.0-0.5	SL-512A-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	06/11/2012	06/11/2012	04/20/2012	06/11/2012	06/11/2012	06/11/2012	04/19/2012	04/23/2012
				SDG	12F071	12F071	12D191	12F071	12F071	12F071	12D175	12D198
				Start Depth	4	6.5	0	4	4	9	0	0
				End Depth	5	7.5	0.5	5	5	10	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	8.28	8.4	6.39	8.21	8.36	8.23	6.63	7.82	

				Sample Name	SL-512-SA5C-SB-0.0-0.5	SL-812-SA5C-SB-0.0-0.5	SL-512-SA5C-SB-4.0-5.0	SL-512-SA5C-SB-6.0-7.0	SL-513-SA5C-SB-0.0-0.5	SL-513-SA5C-SB-4.0-5.0	SL-513-SA5C-SB-9.0-10.0	SL-514-SA5C-SB-0.0-0.5
				Sample Type	N	FD	N	N	N	N	N	N
				Sample Date	05/10/2012	05/10/2012	05/10/2012	05/10/2012	04/19/2012	05/10/2012	05/14/2012	04/17/2012
				SDG	12E082	12E082	12E082	12E082	12D175	12E082	12E098	12D155
				Start Depth	0	0	4	6	0	4	9	0
				End Depth	0.5	0.5	5	7	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	8.2	8.17	8.41	8.28	7.38	7.84	8.58	7.04	

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R - Result is rejected

				Sample Name	SL-814-SA5C-SB-0.0-0.5	SL-514-SA5C-SB-4.0-5.0	SL-514-SA5C-SB-9.0-10.0	SL-515-SA5C-SB-0.0-0.5	SL-515-SA5C-SB-4.0-5.0	SL-515-SA5C-SB-9.0-10.0	SL-516-SA5C-SB-0.0-0.5	SL-516-SA5C-SB-4.0-5.0
				Sample Type	FD	N	N	N	N	N	N	N
				Sample Date	04/17/2012	05/14/2012	05/14/2012	04/19/2012	06/25/2012	06/25/2012	04/19/2012	04/19/2012
				SDG	12D155	12E098	12E098	12D175	12F182	12F182	12D175	12D175
				Start Depth	0	4	9	0	4	9	0	4
				End Depth	0.5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	6.9	8.29	8.47	6.86	8.13	8.18	7.02	7.11	

				Sample Name	SL-517-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-0.0-0.5	SL-518-SA5C-SB-4.0-5.0	SL-518-SA5C-SB-9.0-10.0	SL-520-SA5C-SB-0.0-0.5	SL-520-SA5C-SB-6.5-7.5	SL-521-SA5C-SB-0.0-0.5	SL-521-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/19/2012	04/19/2012	06/11/2012	06/11/2012	04/23/2012	06/11/2012	06/11/2012	06/11/2012
				SDG	12D175	12D175	12F071	12F071	12D198	12F071	12F071	12F071
				Start Depth	0	0	4	9	0	6.5	0	4
				End Depth	0.5	0.5	5	10	0.5	7.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	6.55	5.77	8.05	8.73	8.15	8.87	7.05	8.16	

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

				Sample Name	SL-521-SA5C-SB-9.0-10.0	SL-522-SA5C-SB-0.0-0.5	SL-522-SA5C-SB-4.0-5.0	SL-822-SA5C-SB-4.0-5.0	SL-522-SA5C-SB-9.0-10.0	SL-523-SA5C-SB-0.0-0.5	SL-523-SA5C-SB-4.0-5.0	SL-523-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	FD	N	N	N	N
				Sample Date	06/11/2012	04/25/2012	07/09/2012	07/09/2012	07/09/2012	04/25/2012	07/09/2012	07/09/2012
				SDG	12F071	12D231	12G030	12G030	12G030	12D231	12G030	12G030
				Start Depth	9	0	4	4	9	0	4	9
				End Depth	10	0.5	5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	8.44	6.99	7.2	7.37	8.02	7.59	7.99	8.22	

Sample Name				SL-524-SA5C-SB-0.0-0.5	SL-524-SA5C-SB-4.0-5.0	SL-525-SA5C-SB-0.0-0.5	SL-525-SA5C-SB-4.0-5.0	SL-525-SA5C-SB-9.0-10.0	SL-526-SA5C-SB-0.0-0.5	SL-526-SA5C-SB-4.0-5.0	SL-526-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/24/2012	06/19/2012	04/24/2012	06/19/2012	06/19/2012	04/25/2012	06/19/2012	06/19/2012
SDG				12D208	12F132	12D208	12F132	12F132	12D231	12F132	12F132
Start Depth				0	4	0	4	9	0	4	9
End Depth				0.5	5	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
9045D	pH	pH	pH	7.16	8.72	7.98	8.25	8.59	7.72	8.39	8.38

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

				Sample Name	SL-527-SA5C-SB-0.0-0.5	SL-527-SA5C-SB-4.0-5.0	SL-528-SA5C-SB-0.0-0.5	SL-528-SA5C-SB-4.0-5.0	SL-828-SA5C-SB-4.0-5.0	SL-529-SA5C-SB-0.0-0.5	SL-529-SA5C-SB-4.0-5.0	SL-530-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	04/25/2012	06/19/2012	04/25/2012	06/19/2012	06/19/2012	04/25/2012	05/09/2012	04/25/2012
				SDG	12D231	12F132	12D231	12F132	12F132	12D231	12E082	12D231
				Start Depth	0	4	0	4	4	0	4	0
				End Depth	0.5	5	0.5	5	5	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	6.68	7.81	7.93	8.1	8.01	7.64	8.57	7.33	

				Sample Name	SL-530-SA5C-SB-4.0-5.0	SL-530-SA5C-SB-9.0-10.0	SL-531-SA5C-SB-0.0-0.5	SL-531-SA5C-SB-4.0-5.0	SL-531-SA5C-SB-9.0-10.0	SL-532-SA5C-SB-0.0-0.5	SL-533-SA5C-SB-0.0-0.5	SL-533-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	07/09/2012	07/09/2012	04/25/2012	07/09/2012	07/09/2012	04/23/2012	04/23/2012	07/09/2012
				SDG	12G030	12G030	12D231	12G030	12G030	12D198	12D198	12G030
				Start Depth	4	9	0	4	9	0	0	4
				End Depth	5	10	0.5	5	10	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	6.69	7.65	6.93	8.07	8.3	7.2	8.04	8.17	

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

				Sample Name	SL-533-SA5C-SB-9.0-10.0	SL-536-SA5C-SB-0.0-0.5	SL-536-SA5C-SB-4.0-5.0	SL-536-SA5C-SB-9.0-10.0	SL-537-SA5C-SB-0.0-0.5	SL-537-SA5C-SB-4.0-5.0	SL-537-SA5C-SB-9.0-10.0	SL-539-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	07/09/2012	05/08/2012	06/01/2012	06/01/2012	06/07/2012	06/07/2012	06/07/2012	06/05/2012
				SDG	12G030	12E055	12F020	12F020	12F051	12F051	12F051	12F037
				Start Depth	9	0	4	9	0	4	9	0
				End Depth	10	0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.24	8.11	8.78	8.64	7.16	8.68	8.56	7.66

				Sample Name	SL-539-SA5C-SB-6.0-7.0	SL-542-SA5C-SB-0.0-0.5	SL-542-SA5C-SB-1.0-2.0	SL-543-SA5C-SB-0.0-0.5	SL-543-SA5C-SB-3.5-4.5	SL-544-SA5C-SB-0.0-0.5	SL-544-SA5C-SB-5.0-6.0	SL-545-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/05/2012	05/09/2012	05/09/2012	06/05/2012	06/05/2012	05/30/2012	05/30/2012	06/04/2012
				SDG	12F037	12E067	12E067	12F037	12F037	12E244	12E244	12F037
				Start Depth	6	0	1	0	3.5	0	5	0
				End Depth	7	0.5	2	0.5	4.5	0.5	6	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.9	7.85	8.59	8.69	8.23	8.94	8.74	8.37

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

				Sample Name	SL-545-SA5C-SB-4.0-5.0	SL-545-SA5C-SB-9.0-10.0	SL-546-SA5C-SB-0.0-0.5	SL-546-SA5C-SB-4.0-5.0	SL-846-SA5C-SB-4.0-5.0	SL-546-SA5C-SB-9.0-10.0	SL-547-SA5C-SB-0.0-0.5	SL-547-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	06/04/2012	06/04/2012	06/06/2012	06/06/2012	06/06/2012	06/06/2012	05/08/2012	06/07/2012
				SDG	12F037	12F037	12F044	12F044	12F044	12F044	12E055	12F051
				Start Depth	4	9	0	4	4	9	0	4
				End Depth	5	10	0.5	5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	7.03	7	7.85	7.61	7.38	8.13	7.72	8.59	

				Sample Name	SL-547-SA5C-SB-9.0-10.0	SL-548-SA5C-SB-0.0-0.5	SL-548-SA5C-SB-4.0-5.0	SL-548-SA5C-SB-9.0-10.0	SL-550-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-4.0-5.0	SL-552-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/07/2012	05/08/2012	06/07/2012	06/07/2012	05/30/2012	06/05/2012	06/05/2012	06/05/2012
				SDG	12F051	12E055	12F051	12F051	12E244	12F037	12F037	12F037
				Start Depth	9	0	4	9	0	0	4	0
				End Depth	10	0.5	5	10	0.5	0.5	4	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.72	7.11	8.5	8.55	8.82	8.59	8.51	8.71

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

				Sample Name	SL-554-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-2.5-3.5	SL-559-SA5C-SB-0.0-0.5	SL-559-SA5C-SB-2.0-3.0	SL-559-SA5C-SB-7.0-8.0	SL-560-SA5C-SB-0.0-0.5	SL-560-SA5C-SB-6.5-7.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/29/2012	05/29/2012	05/29/2012	06/07/2012	06/07/2012	06/07/2012	05/30/2012	05/30/2012
				SDG	12E229	12E229	12E229	12F051	12F051	12F051	12E244	12E244
				Start Depth	0	0	2.5	0	2	7	0	6.5
				End Depth	0.5	0.5	3.5	0.5	3	8	0.5	7.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.57	8.75	8.5	7.63	7.84	9.1	8.01	8.42

				Sample Name	SL-561-SA5C-SB-0.0-0.5	SL-561-SA5C-SB-5.5-6.5	SL-570-SA5C-SB-0.0-0.5	SL-570-SA5C-SB-2.0-3.0	SL-571-SA5C-SB-0.0-0.5	SL-571-SA5C-SB-4.0-5.0	SL-571-SA5C-SB-9.0-10.0	SL-572-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/05/2012	06/05/2012	04/18/2012	04/18/2012	04/26/2012	06/07/2012	06/07/2012	06/19/2012
				SDG	12F037	12F037	12D165	12D165	12D256	12F051	12F051	12F132
				Start Depth	0	5.5	0	2	0	4	9	0
				End Depth	0.5	6.5	0.5	3	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		7.96	8.79	7.91	7.86	7.21	8.7	8.74	8.25

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

				Sample Name	SL-572-SA5C-SB-4.0-5.0	SL-872-SA5C-SB-4.0-5.0	SL-573-SA5C-SB-0.0-0.5	SL-573-SA5C-SB-4.0-5.0	SL-573-SA5C-SB-9.0-10.0	SL-574-SA5C-SB-0.0-0.5	SL-574-SA5C-SB-4.0-5.0	SL-574-SA5C-SB-9.0-10.0
				Sample Type	N	FD	N	N	N	N	N	N
				Sample Date	06/19/2012	06/19/2012	06/04/2012	06/04/2012	06/04/2012	04/20/2012	06/11/2012	06/11/2012
				SDG	12F132	12F132	12F029	12F029	12F029	12D191	12F071	12F071
				Start Depth	4	4	0	4	9	0	4	9
				End Depth	5	5	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	9.06	9.07	7.82	8.63	8.45	7.66	8.12	8.43	

				Sample Name	SL-575-SA5C-SB-0.0-0.5	SL-575-SA5C-SB-4.0-5.0	SL-577-SA5C-SB-0.0-0.5	SL-578-SA5C-SB-0.0-0.5	SL-578-SA5C-SB-4.0-5.0	SL-579-SA5C-SB-0.0-0.5	SL-579-SA5C-SB-4.0-5.0	SL-580-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/19/2012	06/25/2012	04/17/2012	04/17/2012	06/27/2012	04/18/2012	04/18/2012	04/18/2012
				SDG	12D175	12F182	12D155	12D155	12F215	12D165	12D165	12D165
				Start Depth	0	4	0	0	4	0	4	0
				End Depth	0.5	5	0.5	0.5	5	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		7.38	8.52	8.02	6.71	8.22	7.8	7.49	7.62

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

				Sample Name	SL-580-SA5C-SB-4.0-5.0	SL-581-SA5C-SB-0.0-0.5	SL-581-SA5C-SB-4.0-5.0	SL-881-SA5C-SB-4.0-5.0	SL-583-SA5C-SB-0.0-0.5	SL-583-SA5C-SB-4.0-5.0	SL-584-SA5C-SB-0.0-0.5	SL-584-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	FD	N	N	N	N
				Sample Date	04/18/2012	04/17/2012	06/26/2012	06/26/2012	07/24/2012	07/24/2012	05/03/2012	06/21/2012
				SDG	12D165	12D155	12F197	12F197	12G199	12G199	12E034	12F162
				Start Depth	4	0	4	4	0	4	0	4
				End Depth	5	0.5	5	5	0.5	5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	8.81	7.26	8.01	8.06	7.63	7.36	8.14	8.49	

				SL-585-SA5C-SB-0.0-0.5	SL-585-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-0.0-0.5	SL-586-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-9.0-10.0	SL-587-SA5C-SB-0.0-0.5	SL-587-SA5C-SB-4.0-5.0	SL-887-SA5C-SB-4.0-5.0
Sample Name				N	N	N	N	N	N	N	FD
Sample Type											
Sample Date				05/02/2012	06/21/2012	05/07/2012	07/11/2012	07/11/2012	05/02/2012	06/20/2012	06/20/2012
SDG				12E018	12F162	12E049	12G064	12G064	12E018	12F146	12F146
Start Depth				0	4	0	4	9	0	4	4
End Depth				0.5	5	0.5	5	10	0.5	5	5
Analytic Method	CAS Number	Chemical Name	Unit								
9045D	pH	pH	pH	7.79	9.26	7.81	7.81	7.79	8.07	7.95	8

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

				Sample Name	SL-587-SA5C-SB-8.5-9.5	SL-589-SA5C-SB-0.0-0.5	SL-589-SA5C-SB-4.0-5.0	SL-591-SA5C-SB-0.0-0.5	SL-591-SA5C-SB-4.0-5.0	SL-592-SA5C-SB-0.0-0.5	SL-592-SA5C-SB-5.0-6.0	SL-599-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/20/2012	05/07/2012	07/11/2012	05/02/2012	07/11/2012	05/07/2012	07/11/2012	05/02/2012
				SDG	12F146	12E049	12G064	12E018	12G064	12E049	12G064	12E018
				Start Depth	8.5	0	4	0	4	0	5	0
				End Depth	9.5	0.5	5	0.5	5	0.5	6	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.14	7.46	7.06	7.3	7.1	7.19	7.2	8.16

				Sample Name	SL-599-SA5C-SB-4.0-5.0	SL-600-SA5C-SB-0.0-0.5	SL-600-SA5C-SB-4.0-5.0	SL-603-SA5C-SB-0.0-0.5	SL-903-SA5C-SB-0.0-0.5	SL-603-SA5C-SB-4.0-5.0	SL-604-SA5C-SB-0.0-0.5	SL-604-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	06/21/2012	05/02/2012	06/21/2012	05/03/2012	05/03/2012	06/21/2012	05/02/2012	06/20/2012
				SDG	12F162	12E018	12F162	12E034	12E034	12F162	12E018	12F146
				Start Depth	4	0	4	0	0	4	0	4
				End Depth	5	0.5	5	0.5	0.5	5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	9.06	7.41	7.71	7.47	7.48	8.97	7.8	8.2	

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

				Sample Name	SL-606-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-4.0-5.0	SL-607-SA5C-SB-9.0-10.0	SL-608-SA5C-SB-0.0-0.5	SL-608-SA5C-SB-2.0-3.0	SL-609-SA5C-SB-0.0-0.5	SL-609-SA5C-SB-3.0-4.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/03/2012	07/11/2012	07/11/2012	07/11/2012	05/09/2012	05/31/2012	05/09/2012	05/31/2012
				SDG	12E034	12G064	12G064	12G064	12E067	12E267	12E067	12E267
				Start Depth	0	0	4	9	0	2	0	3
				End Depth	0.5	0.5	5	10	0.5	3	0.5	4
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	8.29	8.24	8.27	8.46	8.91	7.95	7.75	7.91	

				Sample Name	SL-610-SA5C-SB-0.0-0.5	SL-611-SA5C-SB-0.0-0.5	SL-611-SA5C-SB-5.0-6.0	SL-612-SA5C-SB-0.0-0.5	SL-612-SA5C-SB-4.0-5.0	SL-912-SA5C-SB-4.0-5.0	SL-612-SA5C-SB-7.0-8.0	SL-613-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	FD	N	N
				Sample Date	05/31/2012	05/31/2012	05/31/2012	05/03/2012	05/31/2012	05/31/2012	05/31/2012	05/31/2012
				SDG	12E267	12E267	12E267	12E034	12E267	12E267	12E267	12E267
				Start Depth	0	0	5	0	4	4	7	4
				End Depth	0.5	0.5	6	0.5	5	5	8	5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	8.12	7.8	6.72	7.26	8.8	8.92	8.63	7.66	

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

				Sample Name	SL-613-SA5C-SB-7.5-8.5	SL-614-SA5C-SB-0.0-0.5	SL-614-SA5C-SB-3.0-4.0	SL-615-SA5C-SB-0.0-0.5	SL-615-SA5C-SB-4.0-5.0	SL-615-SA5C-SB-9.0-10.0	SL-618-SA5C-SB-0.0-1.0	SL-619-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/31/2012	05/31/2012	05/31/2012	05/07/2012	06/05/2012	06/05/2012	05/30/2012	05/30/2012
				SDG	12E267	12E267	12E267	12E049	12F037	12F037	12E267	12E267
				Start Depth	7.5	0	3	0	4	9	0	0
				End Depth	8.5	0.5	4	0.5	5	10	1	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		7.95	7.96	8.18	6.85	8.69	8.9	8.33	8.81

Sample Name				SL-620-SA5C-SB-0.0-0.5	SL-621-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-0.0-0.5	SL-623-SA5C-SB-4.0-5.0	SL-623-SA5C-SB-9.0-10.0	SL-628-SA5C-SB-11.5-12.5	SL-630-SA5C-SB-8.0-9.0	SL-640-SA5C-SB-5.0-6.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/29/2012	05/30/2012	04/25/2012	07/09/2012	07/09/2012	06/20/2012	06/20/2012	07/10/2012
SDG				12E229	12E244	12D231	12G030	12G030	12F146	12F146	12G048
Start Depth				0	0	0	4	9	11.5	8	5
End Depth				0.5	0.5	0.5	5	10	12.5	9	6
Analytic Method	CAS Number	Chemical Name	Unit								
9045D	pH	pH	pH	8.93	8.61	7.79	8.2	9.02	7.28	8.49	8.38

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

				Sample Name	SL-640-SA5C-SB-10.0-11.0	SL-640-SA5C-SB-15.0-16.0	SL-640-SA5C-SB-19.0-20.0	SL-641-SA5C-SB-4.0-5.0	SL-641-SA5C-SB-9.0-10.0	SL-641-SA5C-SB-14.0-15.0	SL-641-SA5C-SB-18.5-19.5
				Sample Type	N	N	N	N	N	N	N
				Sample Date	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012	07/10/2012
				SDG	12G048	12G048	12G048	12G048	12G048	12G048	12G048
				Start Depth	10	15	19	4	9	14	18.5
				End Depth	11	16	20	5	10	15	19.5
Analytic Method	CAS Number	Chemical Name	Unit								
9045D	pH	pH	pH		8.28	8.58	8.4	8.46	8.47	8.51	8.05

				Sample Name	SL-642-SA5C-SB-4.0-5.0	SL-642-SA5C-SB-9.0-10.0	SL-642-SA5C-SB-14.0-15.0	SL-642-SA5C-SB-17.5-18.5	SL-670-SA5C-SB-0.0-0.5	SL-670-SA5C-SB-4.0-5.0	SL-671-SA5C-SB-0.0-0.5	SL-671-SA5C-SB-2.0-3.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	07/10/2012	07/10/2012	07/10/2012	07/10/2012	06/19/2012	06/19/2012	05/08/2012	05/23/2012
				SDG	12G048	12G048	12G048	12G048	12F132	12F132	12E055	12E187
				Start Depth	4	9	14	17.5	0	4	0	2
				End Depth	5	10	15	18.5	0.5	5	0.5	3
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.08	8.24	8.42	8.45	8.19	8.98	7.02	8.24

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

				Sample Name	SL-672-SA5C-SB-0.0-0.5	SL-672-SA5C-SB-4.0-5.0	SL-673-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-2.5-3.5	SL-675-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/24/2012	05/24/2012	05/08/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012
				SDG	12E204	12E204	12E055	12E187	12E187	12E187	12E187	12E187
				Start Depth	0	4	0	0	2.5	0	0	4
				End Depth	0.5	5	0.5	0.5	3.5	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		7.96	8.39	7.12	9.93	7.92	8.32	8.53	8.73

				Sample Name	SL-976-SA5C-SB-4.0-5.0	SL-677-SA5C-SB-0.0-0.5	SL-677-SA5C-SB-4.0-5.0	SL-678-SA5C-SB-0.0-0.5	SL-678-SA5C-SB-2.5-3.5	SL-679-SA5C-SB-0.0-0.5	SL-680-SA5C-SB-0.0-0.5	SL-681-SA5C-SB-0.0-0.5
				Sample Type	FD	N	N	N	N	N	N	N
				Sample Date	05/23/2012	05/24/2012	05/24/2012	05/23/2012	05/23/2012	04/12/2012	04/17/2012	04/12/2012
				SDG	12E187	12E204	12E204	12E187	12E187	12D121	12D155	12D121
				Start Depth	4	0	4	0	2.5	0	0	0
				End Depth	5	0.5	5	0.5	3.5	0.5	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.79	8.43	8.08	8.07	8.17	8.77	8.31	8.63

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

				Sample Name	SL-681-SA5C-SB-4.0-5.0	SL-681-SA5C-SB-7.5-8.5	SL-682-SA5C-SB-0.0-0.5	SL-682-SA5C-SB-4.0-5.0	SL-682-SA5C-SB-9.0-10.0	SL-683-SA5C-SB-0.0-0.5	SL-683-SA5C-SB-4.0-5.0	SL-683-SA5C-SB-7.0-8.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/23/2012	05/23/2012	05/22/2012	05/22/2012	05/22/2012	04/12/2012	06/13/2012	06/13/2012
				SDG	12E187	12E187	12E169	12E169	12E169	12D121	12F093	12F093
				Start Depth	4	7.5	0	4	9	0	4	7
				End Depth	5	8.5	0.5	5	10	0.5	5	8
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.88	8.66	8.2	8.07	8.71	8.42	8.01	7.69

				Sample Name	SL-684-SA5C-SB-0.0-0.5	SL-684-SA5C-SB-2.5-3.5	SL-685-SA5C-SB-0.0-0.5	SL-685-SA5C-SB-4.0-5.0	SL-685-SA5C-SB-7.0-8.0	SL-686-SA5C-SB-0.0-0.5	SL-686-SA5C-SB-4.0-5.0	SL-686-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/12/2012	06/13/2012	04/12/2012	06/13/2012	06/13/2012	04/12/2012	05/17/2012	05/17/2012
				SDG	12D121	12F093	12D121	12F093	12F093	12D121	12E134	12E134
				Start Depth	0	2.5	0	4	7	0	4	9
				End Depth	0.5	3.5	0.5	5	8	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.34	8.32	8.03	8.2	8.33	8.2	8.49	7.43

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

				Sample Name	SL-687-SA5C-SB-0.0-0.5	SL-687-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-0.0-0.5	SL-688-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-9.0-10.0	SL-689-SA5C-SB-0.0-0.5	SL-689-SA5C-SB-4.0-5.0	SL-689-SA5C-SB-7.5-8.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/16/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012
				SDG	12D147	12F074	12D147	12F074	12F074	12D147	12F074	12F074
				Start Depth	0	4	0	4	9	0	4	7.5
				End Depth	0.5	5	0.5	5	10	0.5	5	8.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.08	8.47	8.2	6.98	7.08	8.25	8.46	9.41

				Sample Name	SL-690-SA5C-SB-0.0-0.5	SL-690-SA5C-SB-3.5-4.5	SL-691-SA5C-SB-0.0-0.5	SL-692-SA5C-SB-0.0-0.5	SL-692-SA5C-SB-5.0-6.0	SL-693-SA5C-SB-0.0-0.5	SL-693-SA5C-SB-4.0-5.0	SL-693-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/16/2012	06/12/2012	04/16/2012	04/16/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012
				SDG	12D147	12F074	12D147	12D147	12F074	12D147	12F074	12F074
				Start Depth	0	3.5	0	0	5	0	4	9
				End Depth	0.5	4.5	0.5	0.5	6	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		7.97	9.04	8.02	8.1	8.28	8.08	8.54	8.56

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

				Sample Name	SL-694-SA5C-SB-0.0-0.5	SL-694-SA5C-SB-4.0-5.0	SL-694-SA5C-SB-9.0-10.0	SL-702-SA5C-SB-0.0-0.5	SL-702-SA5C-SB-4.0-5.0	SL-702-SA5C-SB-9.0-10.0	SL-703-SA5C-SB-0.0-0.5	SL-703-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/24/2012	05/24/2012	05/24/2012	04/26/2012	06/18/2012	06/18/2012	04/26/2012	06/18/2012
				SDG	12E204	12E204	12E204	12D256	12F120	12F120	12D256	12F120
				Start Depth	0	4	9	0	4	9	0	4
				End Depth	0.5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	8.3	8.57	8.35	7.59	8.28	8.17	7.39	8.2	

				Sample Name	SL-703-SA5C-SB-9.0-10.0	SL-704-SA5C-SB-0.0-0.5	SL-704-SA5C-SB-4.0-5.0	SL-704-SA5C-SB-9.0-10.0	SL-705-SA5C-SB-0.0-0.5	SL-705-SA5C-SB-4.0-5.0	SL-705-SA5C-SB-9.0-10.0	SL-706-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/18/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012	05/29/2012
				SDG	12F120	12E204	12E204	12E204	12E204	12E204	12E204	12E229
				Start Depth	9	0	4	9	0	4	9	0
				End Depth	10	0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.29	7.97	7.43	8.37	8.18	8.56	8.44	8.22

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

				Sample Name	SL-706-SA5C-SB-4.0-5.0	SL-706-SA5C-SB-9.0-10.0	SL-707-SA5C-SB-13.0-14.0	SL-711-SA5C-SB-0.0-0.5	SL-711-SA5C-SB-4.0-5.0	SL-711-SA5C-SB-9.0-10.0	SL-712-SA5C-SB-0.0-0.5	SL-712-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/29/2012	05/29/2012	06/14/2012	04/26/2012	06/14/2012	06/14/2012	04/30/2012	06/14/2012
				SDG	12E229	12E229	12F102	12D256	12F102	12F102	12D275	12F102
				Start Depth	4	9	13	0	4	9	0	4
				End Depth	5	10	14	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.48	8.65	8.15	8.34	7.9	7.61	8.1	8.21

				Sample Name	SL-712-SA5C-SB-9.0-10.0	SL-713-SA5C-SB-0.0-0.5	SL-713-SA5C-SB-6.0-7.0	SL-715-SA5C-SB-0.0-0.5	SL-715-SA5C-SB-6.0-7.0	SL-716-SA5C-SB-0.0-0.5	SL-716-SA5C-SB-5.5-6.5	SL-717-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/14/2012	04/30/2012	06/14/2012	04/30/2012	06/14/2012	05/02/2012	06/13/2012	05/02/2012
				SDG	12F102	12D275	12F102	12D275	12F102	12E018	12F102	12E018
				Start Depth	9	0	6	0	6	0	5.5	0
				End Depth	10	0.5	7	0.5	7	0.5	6.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		7.99	8.05	7.79	7.97	7.77	8.4	8.18	8.82

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

				Sample Name	SL-717-SA5C-SB-6.0-7.0	SL-718-SA5C-SB-0.0-0.5	SL-718-SA5C-SB-4.0-5.0	SL-718-SA5C-SB-8.0-9.0	SL-719-SA5C-SB-0.0-0.5	SL-719-SA5C-SB-6.0-7.0	SL-720-SA5C-SB-0.0-0.5	SL-720-SA5C-SB-4.5-5.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/13/2012	05/02/2012	06/13/2012	06/13/2012	05/02/2012	06/14/2012	04/30/2012	06/13/2012
				SDG	12F093	12E018	12F093	12F093	12E018	12F102	12D275	12F093
				Start Depth	6	0	4	8	0	6	0	4.5
				End Depth	7	0.5	5	9	0.5	7	0.5	5.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.13	8.6	8.27	8.45	8.12	8.36	7.82	8.33

				Sample Name	SL-1022-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-6.0-7.0	SL-723-SA5C-SB-0.0-0.5	SL-723-SA5C-SB-4.0-5.0	SL-723-SA5C-SB-9.0-10.0	SL-724-SA5C-SB-0.0-0.5	SL-724-SA5C-SB-4.0-5.0
				Sample Type	FD	N	N	N	N	N	N	N
				Sample Date	05/01/2012	05/01/2012	06/13/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012
				SDG	12E004	12E004	12F093	12E229	12E229	12E229	12E229	12E229
				Start Depth	0	0	6	0	4	9	0	4
				End Depth	0.5	0.5	7	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	8.74	8.81	8.25	8.1	7.69	8.27	6.33	8.46	

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

				Sample Name	SL-724-SA5C-SB-9.0-10.0	SL-727-SA5C-SB-0.0-0.5	SL-1027-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-9.0-10.0	SL-730-SA5C-SB-0.0-0.5	SL-730-SA5C-SB-4.0-5.0	SL-730-SA5C-SB-9.0-10.0
				Sample Type	N	N	FD	N	N	N	N	N
				Sample Date	05/29/2012	05/21/2012	05/21/2012	05/21/2012	05/21/2012	05/22/2012	05/22/2012	05/22/2012
				SDG	12E229	12E155	12E155	12E155	12E155	12E169	12E169	12E169
				Start Depth	9	0	4	4	9	0	4	9
				End Depth	10	0.5	5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	8.26	7.51	5.54	5.42	8.12	7.78	7.63	7.65	

				Sample Name	SL-731-SA5C-SB-0.0-0.5	SL-731-SA5C-SB-4.0-5.0	SL-731-SA5C-SB-9.0-10.0	SL-732-SA5C-SB-5.0-6.0	SL-732-SA5C-SB-10.5-11.5	SL-733-SA5C-SB-0.0-0.5	SL-733-SA5C-SB-4.0-5.0	SL-733-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012
				SDG	12E169	12E169	12E169	12E169	12E169	12E169	12E169	12E169
				Start Depth	0	4	9	5	10.5	0	4	9
				End Depth	0.5	5	10	6	11.5	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		7.92	7.43	8.12	7.27	8.9	7.61	6.9	8.64

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

				Sample Name	SL-734-SA5C-SB-0.0-0.5	SL-734-SA5C-SB-4.0-5.0	SL-734-SA5C-SB-9.0-10.0	SL-735-SA5C-SB-0.0-0.5	SL-735-SA5C-SB-4.0-5.0	SL-735-SA5C-SB-9.0-10.0	SL-736-SA5C-SB-4.0-5.0	SL-736-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/21/2012	05/21/2012	05/21/2012	04/12/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012
				SDG	12E155	12E155	12E155	12D121	12E134	12E134	12E134	12E134
				Start Depth	0	4	9	0	4	9	4	9
				End Depth	0.5	5	10	0.5	5	10	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH	8.07	6.79	9	8.58	6.42	8.71	6.63	8.55	

				Sample Name	SL-737-SA5C-SB-0.0-0.5	SL-737-SA5C-SB-4.0-5.0	SL-737-SA5C-SB-9.0-10.0	SL-738-SA5C-SB-0.0-0.5	SL-738-SA5C-SB-4.0-5.0	SL-738-SA5C-SB-9.0-10.0	SL-739-SA5C-SB-0.0-0.5	SL-739-SA5C-SB-4.0-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/12/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012
				SDG	12D121	12E134	12E134	12E134	12E134	12E134	12E134	12E134
				Start Depth	0	4	9	0	4	9	0	4
				End Depth	0.5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.59	7.61	8.65	8.15	6.52	8.86	7.97	6.48

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

				Sample Name	SL-739-SA5C-SB-9.0-10.0	SL-741-SA5C-SB-0.0-0.5	SL-741-SA5C-SB-4.0-5.0	SL-741-SA5C-SB-9.0-10.0	SL-742-SA5C-SB-0.0-0.5	SL-747-SA5C-SB-0.0-0.5	SL-747-SA5C-SB-2.5-3.5	SL-750-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/17/2012	07/24/2012	07/24/2012	07/24/2012	07/24/2012	04/17/2012	06/26/2012	05/29/2012
				SDG	12E134	12G199	12G199	12G199	12G199	12D155	12F197	12E229
				Start Depth	9	0	4	9	0	0	2.5	0
				End Depth	10	0.5	5	10	0.5	0.5	3.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.58	7.78	7.53	7.67	7.8	7.08	7.09	7.79

				Sample Name	SL-750-SA5C-SB-5.5-6.5	SL-752-SA5C-SB-0.0-0.5	SL-754-SA5C-SB-0.0-0.5	SL-754-SA5C-SB-4.0-5.0	SL-754-SA5C-SB-6.5-7.5	SL-755-SA5C-SB-0.0-0.5	SL-755-SA5C-SB-4.0-5.0	SL-755-SA5C-SB-5.5-6.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/29/2012	05/30/2012	07/09/2012	07/09/2012	07/09/2012	07/10/2012	07/10/2012	07/10/2012
				SDG	12E229	12E244	12G030	12G030	12G030	12G048	12G048	12G048
				Start Depth	5.5	0	0	4	6.5	0	4	5.5
				End Depth	6.5	0.5	0.5	5	7.5	0.5	5	6.5
Analytic Method	CAS Number	Chemical Name	Unit									
9045D	pH	pH	pH		8.34	8.54	7.28	6.95	7.58	6.44	7.32	7.82

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

Sample Name				SL-512A-SA5C-SB-0.0-0.5	SL-512-SA5C-SB-0.0-0.5	SL-812-SA5C-SB-0.0-0.5	SL-512-SA5C-SB-4.0-5.0	SL-512-SA5C-SB-6.0-7.0	SL-513-SA5C-SB-0.0-0.5	SL-513-SA5C-SB-4.0-5.0	SL-513-SA5C-SB-9.0-10.0
Sample Type				N	N	FD	N	N	N	N	N
Sample Date				04/23/2012	05/10/2012	05/10/2012	05/10/2012	05/10/2012	04/19/2012	05/10/2012	05/14/2012
SDG				12D198	12E082	12E082	12E082	12E082	12D175	12E082	12E098
Start Depth				0	0	0	4	6	0	4	9
End Depth				0.5	0.5	0.5	5	7	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.7 U	5.5 U	5.5 U	5.8 U	5.7 U	5.8 U	5.6 U	5.7 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.7 U	5.5 U	5.5 U	5.8 U	5.7 U	5.8 U	5.6 U	5.7 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	18	22 J FD	44 J FD	5.8 U	5.7 U	13	5.6 U	5.7 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	26	46 J FD	110 J FD	12 U	11 U	34	11 U	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.7 U	5.5 U	5.5 U	5.8 U	5.7 U	5.8 U	5.6 U	5.7 U

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

Sample Name				SL-514-SA5C-SB-0.0-0.5	SL-814-SA5C-SB-0.0-0.5	SL-514-SA5C-SB-4.0-5.0	SL-514-SA5C-SB-9.0-10.0	SL-515-SA5C-SB-0.0-0.5	SL-515-SA5C-SB-4.0-5.0	SL-515-SA5C-SB-9.0-10.0	SL-516-SA5C-SB-0.0-0.5
Sample Type				N	FD	N	N	N	N	N	N
Sample Date				04/17/2012	04/17/2012	05/14/2012	05/14/2012	04/19/2012	06/25/2012	06/25/2012	04/19/2012
SDG				12D155	12D155	12E098	12E098	12D175	12F182	12F182	12D175
Start Depth				0	0	4	9	0	4	9	0
End Depth				0.5	0.5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.8 U	5.8 U	5.4 U	5.4 U	5.6 U	5.7 U	5.5 U	5.8 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.8 U	5.8 U	5.4 U	5.4 U	5.6 U	5.7 U	5.5 U	5.8 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.4 J Z	7.6	5.4 U	5.4 U	3.8 J Z	5.7 U	5.5 U	21
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	8.6 J Z	7.1 J Z	11 U	11 U	12	11 U	11 U	60
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.8 U	5.8 U	5.4 U	5.4 U	5.6 U	5.7 U	5.5 U	5.8 U

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

Sample Name				SL-516-SA5C-SB-4.0-5.0	SL-524-SA5C-SB-0.0-0.5	SL-524-SA5C-SB-4.0-5.0	SL-525-SA5C-SB-0.0-0.5	SL-525-SA5C-SB-4.0-5.0	SL-525-SA5C-SB-9.0-10.0	SL-526-SA5C-SB-0.0-0.5	SL-526-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/19/2012	04/24/2012	06/19/2012	04/24/2012	06/19/2012	06/19/2012	04/25/2012	06/19/2012
SDG				12D175	12D208	12F132	12D208	12F132	12F132	12D231	12F132
Start Depth				4	0	4	0	4	9	0	4
End Depth				5	0.5	5	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.8 U	5.3 U	5.3 U	5.3 U	5.4 U	5.4 U	5.5 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.8 U	3.3 J Z	5.3 U	5.3 U	5.4 U	5.4 U	5.5 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.8 U	100	5.3 U	21	5.4 U	24	27	5.5 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	12 U	63	11 U	19	11 U	29	40	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.8 U	5.3 U	5.3 U	5.3 U	5.4 U	3.0 J Z	5.5 U	5.5 U

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

Sample Name				SL-526-SA5C-SB-9.0-10.0	SL-527-SA5C-SB-0.0-0.5	SL-527-SA5C-SB-4.0-5.0	SL-528-SA5C-SB-0.0-0.5	SL-528-SA5C-SB-4.0-5.0	SL-828-SA5C-SB-4.0-5.0	SL-529-SA5C-SB-0.0-0.5	SL-529-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	FD	N	N
Sample Date				06/19/2012	04/25/2012	06/19/2012	04/25/2012	06/19/2012	06/19/2012	04/25/2012	05/09/2012
SDG				12F132	12D231	12F132	12D231	12F132	12F132	12D231	12E082
Start Depth				9	0	4	0	4	4	0	4
End Depth				10	0.5	5	0.5	5	5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.4 U	5.4 U	5.5 U	5.3 U	5.4 U	5.3 U	5.3 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.4 U	5.4 U	5.5 U	5.3 U	5.4 U	5.3 U	5.3 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.4 U	5.4 U	5.5 U	5.3 U	5.4 U	5.3 U	10	6.9
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	11 U	11 U	11 U	11 U	11 U	11 U	25	12
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	2.8 J Z	5.4 U	5.5 U	5.3 U	5.4 UJ FD	2.9 J FD, Z	5.3 U	5.5 U

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

Sample Name				SL-536-SA5C-SB-0.0-0.5	SL-536-SA5C-SB-4.0-5.0	SL-536-SA5C-SB-9.0-10.0	SL-537-SA5C-SB-0.0-0.5	SL-537-SA5C-SB-4.0-5.0	SL-537-SA5C-SB-9.0-10.0	SL-539-SA5C-SB-0.0-0.5	SL-539-SA5C-SB-6.0-7.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/08/2012	06/01/2012	06/01/2012	06/07/2012	06/07/2012	06/07/2012	06/05/2012	06/05/2012
SDG				12E055	12F020	12F020	12F051	12F051	12F051	12F037	12F037
Start Depth				0	4	9	0	4	9	0	6
End Depth				0.5	5	10	0.5	5	10	0.5	7
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.4 U	5.4 U	5.5 U	5.7 U	5.8 U	5.8 U	5.7 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.4 U	5.4 U	5.5 U	5.7 U	5.8 U	5.8 U	5.7 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.4 U	5.4 U	5.5 U	5.7 U	5.8 U	5.8 U	5.7 U	5.5 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	11 U	11 U	11 U	11 U	12 U	12 U	11 U	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.4 U	5.4 U	5.5 U	5.7 U	5.8 U	5.8 U	5.7 U	5.5 U

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

				Sample Name	SL-543-SA5C-SB-0.0-0.5	SL-543-SA5C-SB-3.5-4.5	SL-544-SA5C-SB-0.0-0.5	SL-544-SA5C-SB-5.0-6.0	SL-545-SA5C-SB-0.0-0.5	SL-545-SA5C-SB-4.0-5.0	SL-545-SA5C-SB-9.0-10.0	SL-546-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/05/2012	06/05/2012	05/30/2012	05/30/2012	06/04/2012	06/04/2012	06/04/2012	06/06/2012
				SDG	12F037	12F037	12E244	12E244	12F037	12F037	12F037	12F044
				Start Depth	0	3.5	0	5	0	4	9	0
				End Depth	0.5	4.5	0.5	6	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.5 U	5.3 U	5.4 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.5 U	5.3 U	5.4 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.5 U	5.3 U	5.4 U	5.8 U	8.5	3.4 J Z	5.7 U	5.7 U	5.6 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	11 U	11 U	11 U	12 U	12	6.6 J Z	11 U	11 U	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.5 U	5.3 U	5.4 U	5.8 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U

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

Sample Name				SL-546-SA5C-SB-4.0-5.0	SL-846-SA5C-SB-4.0-5.0	SL-546-SA5C-SB-9.0-10.0	SL-547-SA5C-SB-0.0-0.5	SL-547-SA5C-SB-4.0-5.0	SL-547-SA5C-SB-9.0-10.0	SL-548-SA5C-SB-0.0-0.5	SL-548-SA5C-SB-4.0-5.0
Sample Type				N	FD	N	N	N	N	N	N
Sample Date				06/06/2012	06/06/2012	06/06/2012	05/08/2012	06/07/2012	06/07/2012	05/08/2012	06/07/2012
SDG				12F044	12F044	12F044	12E055	12F051	12F051	12E055	12F051
Start Depth				4	4	9	0	4	9	0	4
End Depth				5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.8 U	5.9 U	5.8 U	5.7 U	5.5 U	5.4 U	5.8 U	5.8 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.8 U	5.9 U	5.8 U	5.7 U	5.5 U	5.4 U	5.8 U	5.8 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.8 U	5.9 U	5.8 U	21	5.5 U	5.4 U	43	5.8 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	12 U	12 U	12 U	56	11 U	11 U	92	12 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.8 U	5.9 U	5.8 U	5.7 U	5.5 U	5.4 U	5.8 U	5.8 U

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

Sample Name				SL-548-SA5C-SB-9.0-10.0	SL-550-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-0.0-0.5	SL-551-SA5C-SB-4.0-5.0	SL-552-SA5C-SB-0.0-0.5	SL-554-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-0.0-0.5	SL-555-SA5C-SB-2.5-3.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/07/2012	05/30/2012	06/05/2012	06/05/2012	06/05/2012	05/29/2012	05/29/2012	05/29/2012
SDG				12F051	12E244	12F037	12F037	12F037	12E229	12E229	12E229
Start Depth				9	0	0	4	0	0	0	2.5
End Depth				10	0.5	0.5	4	0.5	0.5	0.5	3.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.7 U	5.4 U	5.8 U	5.6 U	53 U	5.5 U	28 U	5.7 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.7 U	5.4 U	5.8 U	5.6 U	53 U	5.5 U	28 U	5.7 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.7 U	13	5.8 U	5.6 U	190	9.2	82	5.7 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	11 U	33	12 U	11 U	600	13	280	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.7 U	5.4 U	5.8 U	5.6 U	53 U	5.5 U	28 U	5.7 U

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

				Sample Name	SL-559-SA5C-SB-0.0-0.5	SL-559-SA5C-SB-2.0-3.0	SL-559-SA5C-SB-7.0-8.0	SL-560-SA5C-SB-0.0-0.5	SL-560-SA5C-SB-6.5-7.5	SL-561-SA5C-SB-0.0-0.5	SL-561-SA5C-SB-5.5-6.5	SL-562-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/07/2012	06/07/2012	06/07/2012	05/30/2012	05/30/2012	06/05/2012	06/05/2012	06/01/2012
				SDG	12F051	12F051	12F051	12E244	12E244	12F037	12F037	12F020
				Start Depth	0	2	7	0	6.5	0	5.5	0
				End Depth	0.5	3	8	0.5	7.5	0.5	6.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.8 U	5.9 U	5.8 U	58 U	5.5 U	5.7 U	5.3 U	5.9 U	5.9 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.8 U	5.9 U	5.8 U	58 U	5.5 U	5.7 U	5.3 U	5.9 U	5.9 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	23	12	5.8 U	110	5.5 U	3.2 J Z	19	5.9 U	5.9 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	27	14	12 U	280	11 U	11 U	41	12 U	12 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.8 U	5.9 U	5.8 U	58 U	5.5 U	5.7 U	5.3 U	5.9 U	5.9 U

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

Sample Name				SL-562-SA5C-SB-4.0-5.0	SL-562-SA5C-SB-9.0-10.0	SL-563-SA5C-SB-0.0-0.5	SL-563-SA5C-SB-4.0-5.0	SL-563-SA5C-SB-9.0-10.0	SL-570-SA5C-SB-0.0-0.5	SL-570-SA5C-SB-2.0-3.0	SL-571-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/01/2012	06/01/2012	06/01/2012	06/01/2012	06/01/2012	04/18/2012	04/18/2012	04/26/2012
SDG				12F020	12F020	12F020	12F020	12F020	12D165	12D165	12D256
Start Depth				4	9	0	4	9	0	2	0
End Depth				5	10	0.5	5	10	0.5	3	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.9 U	5.8 U	6.1 U	5.8 U	5.7 U	5.5 U	5.4 U	5.8 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.9 U	5.8 U	6.1 U	5.8 U	5.7 U	5.5 U	5.4 U	5.8 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.9 U	5.8 U	6.1 U	5.8 U	5.7 U	11	5.4 U	8.5
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	12 U	12 U	12 U	12 U	11 U	22	11 U	21
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.9 U	5.8 U	6.1 U	5.8 U	5.7 U	5.5 U	5.4 U	5.8 U

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

Sample Name				SL-571-SA5C-SB-4.0-5.0	SL-571-SA5C-SB-9.0-10.0	SL-572-SA5C-SB-0.0-0.5	SL-572-SA5C-SB-4.0-5.0	SL-872-SA5C-SB-4.0-5.0	SL-575-SA5C-SB-0.0-0.5	SL-579-SA5C-SB-0.0-0.5	SL-579-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	FD	N	N	N
Sample Date				06/07/2012	06/07/2012	06/19/2012	06/19/2012	06/19/2012	04/19/2012	04/18/2012	04/18/2012
SDG				12F051	12F051	12F132	12F132	12F132	12D175	12D165	12D165
Start Depth				4	9	0	4	4	0	0	4
End Depth				5	10	0.5	5	5	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.6 U	5.6 U	5.6 U	5.3 U	5.4 U	5.9 U	5.6 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.6 U	5.6 U	5.6 U	5.3 UJ FD	3.1 J FD, Z	5.9 U	5.6 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	21	5.6 U	7	7.2 J FD	76 J FD	5.3 J Z	9.8	5.5 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	23	11 U	6.3 J Z	11 UJ FD	100 J FD	15	21	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.6 U	5.6 U	5.6 U	5.3 U	5.4 U	5.9 U	5.6 U	5.5 U

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

				Sample Name	SL-580-SA5C-SB-0.0-0.5	SL-580-SA5C-SB-4.0-5.0	SL-581-SA5C-SB-0.0-0.5	SL-581-SA5C-SB-4.0-5.0	SL-881-SA5C-SB-4.0-5.0	SL-584-SA5C-SB-0.0-0.5	SL-584-SA5C-SB-4.0-5.0	SL-585-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	04/18/2012	04/18/2012	04/17/2012	06/26/2012	06/26/2012	05/03/2012	06/21/2012	05/02/2012
				SDG	12D165	12D165	12D155	12F197	12F197	12E034	12F162	12E018
				Start Depth	0	4	0	4	4	0	4	0
				End Depth	0.5	5	0.5	5	5	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.7 U	5.6 U	5.7 U	5.6 U	5.6 U	5.6 U	5.8 U	5.7 U	5.4 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.7 U	5.6 U	5.7 U	5.6 U	5.6 U	5.6 U	5.8 U	5.7 U	5.4 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	3.1 J Z	5.6 U	250	5.6 U	5.6 U	5.6 U	11	5.7 U	16
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	9.3 J Z	11 U	260	11 U	11 U	11 U	28	11 U	36
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.7 U	5.6 U	5.7 U	5.6 U	5.6 U	5.6 U	5.8 U	5.7 U	5.4 U

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

Sample Name				SL-585-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-0.0-0.5	SL-586-SA5C-SB-4.0-5.0	SL-586-SA5C-SB-9.0-10.0	SL-587-SA5C-SB-0.0-0.5	SL-587-SA5C-SB-4.0-5.0	SL-887-SA5C-SB-4.0-5.0	SL-587-SA5C-SB-8.5-9.5
Sample Type				N	N	N	N	N	N	FD	N
Sample Date				06/21/2012	05/07/2012	07/11/2012	07/11/2012	05/02/2012	06/20/2012	06/20/2012	06/20/2012
SDG				12F162	12E049	12G064	12G064	12E018	12F146	12F146	12F146
Start Depth				4	0	4	9	0	4	4	8.5
End Depth				5	0.5	5	10	0.5	5	5	9.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.2 U	5.5 U	5.4 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.2 U	3.7 J Z	5.4 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.2 U	150	5.4 U	5.7 U	16	3.0 J FD, Z	5.7 UJ FD	5.6 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	10 U	240	11 U	11 U	30	11 U	11 U	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.2 U	5.5 U	5.4 U	5.7 U	5.7 U	5.7 U	5.7 U	5.6 U

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

				Sample Name	SL-594-SA5C-SB-0.0-0.5	SL-594-SA5C-SB-5.0-6.0	SL-594-SA5C-SB-9.0-10.0	SL-599-SA5C-SB-0.0-0.5	SL-599-SA5C-SB-4.0-5.0	SL-600-SA5C-SB-0.0-0.5	SL-600-SA5C-SB-4.0-5.0	SL-602-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/21/2012	06/21/2012	06/21/2012	05/02/2012	06/21/2012	05/02/2012	06/21/2012	05/02/2012
				SDG	12F162	12F162	12F162	12E018	12F162	12E018	12F162	12E034
				Start Depth	0	5	9	0	4	0	4	0
				End Depth	0.5	6	10	0.5	5	0.5	5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.7 U	5.8 U	6.1 U	5.4 U	5.3 U	6.0 U	5.3 U	5.4 U	5.4 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.7 U	5.8 U	6.1 U	5.4 U	5.3 U	6.0 U	5.3 U	5.4 U	5.4 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	18	5.8 U	6.1 U	21	5.3 U	26	5.3 U	13	13
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	50	12 U	12 U	45	11 U	34	11 U	16	16
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.7 U	5.8 U	6.1 U	5.4 U	5.3 U	6.0 U	5.3 U	5.4 U	5.4 U

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

Sample Name				SL-602-SA5C-SB-4.0-5.0	SL-603-SA5C-SB-0.0-0.5	SL-903-SA5C-SB-0.0-0.5	SL-603-SA5C-SB-4.0-5.0	SL-604-SA5C-SB-0.0-0.5	SL-604-SA5C-SB-4.0-5.0	SL-606-SA5C-SB-0.0-0.5	SL-607-SA5C-SB-0.0-0.5
Sample Type				N	N	FD	N	N	N	N	N
Sample Date				06/21/2012	05/03/2012	05/03/2012	06/21/2012	05/02/2012	06/20/2012	05/03/2012	07/11/2012
SDG				12F162	12E034	12E034	12F162	12E018	12F146	12E034	12G064
Start Depth				4	0	0	4	0	4	0	0
End Depth				5	0.5	0.5	5	0.5	5	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.2 U	5.4 U	5.4 U	5.5 U	5.6 U	5.3 U	5.2 U	5.6 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.2 U	5.4 U	5.4 U	5.5 U	5.6 U	5.3 U	5.2 U	5.6 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.2 U	14	9.6	5.5 U	170	3.0 J Z	23	5.6 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	10 U	18 J FD	31 J FD	11 U	190	11 U	53	5.9 J Z
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.2 U	5.4 U	5.4 U	5.5 U	5.6 U	5.3 U	5.2 U	5.6 U

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

				Sample Name	SL-607-SA5C-SB-4.0-5.0	SL-607-SA5C-SB-9.0-10.0	SL-608-SA5C-SB-0.0-0.5	SL-608-SA5C-SB-2.0-3.0	SL-609-SA5C-SB-0.0-0.5	SL-609-SA5C-SB-3.0-4.0	SL-610-SA5C-SB-0.0-0.5	SL-611-SA5C-SB-0.0-0.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	07/11/2012	07/11/2012	05/09/2012	05/31/2012	05/09/2012	05/31/2012	05/31/2012	05/31/2012
				SDG	12G064	12G064	12E067	12E267	12E067	12E267	12E267	12E267
				Start Depth	4	9	0	2	0	3	0	0
				End Depth	5	10	0.5	3	0.5	4	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.7 U	5.6 U	5.2 U	5.3 U	5.6 U	5.6 U	5.6 U	5.2 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.7 U	5.6 U	5.2 U	5.3 U	5.6 U	5.6 U	5.6 U	5.2 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.5 J Z	5.6 U	84	5.3 U	3.3 J Z	5.6 U	5.6 U	19	3.2 J Z
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	12	11 U	170	11 U	9.7 J Z	11 U	11 U	54	9.8 J Z
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.7 U	5.6 U	5.2 U	5.3 U	5.6 U	5.6 U	5.6 U	5.2 U	5.5 U

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

Sample Name				SL-611-SA5C-SB-5.0-6.0	SL-612-SA5C-SB-0.0-0.5	SL-612-SA5C-SB-4.0-5.0	SL-912-SA5C-SB-4.0-5.0	SL-612-SA5C-SB-7.0-8.0	SL-615-SA5C-SB-0.0-0.5	SL-615-SA5C-SB-4.0-5.0	SL-615-SA5C-SB-9.0-10.0
Sample Type				N	N	N	FD	N	N	N	N
Sample Date				05/31/2012	05/03/2012	05/31/2012	05/31/2012	05/31/2012	05/07/2012	06/05/2012	06/05/2012
SDG				12E267	12E034	12E267	12E267	12E267	12E049	12F037	12F037
Start Depth				5	0	4	4	7	0	4	9
End Depth				6	0.5	5	5	8	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.6 U	5.4 U	5.4 U	5.3 U	5.6 U	5.6 U	5.8 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.6 U	5.4 U	5.4 U	5.3 U	5.6 U	5.6 U	5.8 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	9.5	21	5.4 U	5.3 U	5.6 U	44	5.8 U	5.5 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	21	32	11 U	11 U	11 U	95	12 U	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.6 U	5.4 U	5.4 U	5.3 U	5.6 U	5.6 U	5.8 U	5.5 U

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 R - Result is rejected

				Sample Name	SL-620-SA5C-SB-0.0-0.5	SL-621-SA5C-SB-0.0-0.5	SL-628-SA5C-SB-11.5-12.5	SL-630-SA5C-SB-8.0-9.0	SL-670-SA5C-SB-0.0-0.5	SL-670-SA5C-SB-4.0-5.0	SL-671-SA5C-SB-0.0-0.5	SL-671-SA5C-SB-2.0-3.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/29/2012	05/30/2012	06/20/2012	06/20/2012	06/19/2012	06/19/2012	05/08/2012	05/23/2012
				SDG	12E229	12E244	12F146	12F146	12F132	12F132	12E055	12E187
				Start Depth	0	0	11.5	8	0	4	0	2
				End Depth	0.5	0.5	12.5	9	0.5	5	0.5	3
Analytic Method	CAS Number	Chemical Name	Unit									
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.4 U	5.4 U	5.5 U	5.4 U	5.6 U	5.3 U	5.3 U	5.3 U	5.6 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.4 U	5.4 U	5.5 U	5.4 U	5.6 U	5.3 U	5.3 U	5.3 U	5.6 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	40	23	5.5 U	4.7 J Z	8.4	12	5.5	5.5	5.6 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	110	27	11 U	7.5 J Z	15	27	29	29	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.4 U	5.4 U	2.9 J Z	5.4 U	5.6 U	5.3 U	5.3 U	5.3 U	5.6 U

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

Sample Name				SL-672-SA5C-SB-0.0-0.5	SL-672-SA5C-SB-4.0-5.0	SL-673-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-0.0-0.5	SL-674-SA5C-SB-2.5-3.5	SL-675-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-0.0-0.5	SL-676-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/24/2012	05/24/2012	05/08/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012	05/23/2012
SDG				12E204	12E204	12E055	12E187	12E187	12E187	12E187	12E187
Start Depth				0	4	0	0	2.5	0	0	4
End Depth				0.5	5	0.5	0.5	3.5	0.5	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.6 U	5.9 U	5.5 U	5.5 U	5.5 U	5.3 U	5.7 U	5.7 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.6 U	5.9 U	5.5 U	5.5 U	5.5 U	5.3 U	5.7 U	5.7 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	16	43	5.9	5.5 U	5.5 U	8.3	21	36
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	31	75	20	11 U	11 U	11 U	40	61
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.6 U	5.9 U	5.5 U	5.5 U	5.5 U	5.3 U	5.7 U	5.7 U

U - Compound not detected above the reporting limit  
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 R - Result is rejected

				Sample Name	SL-976-SA5C-SB-4.0-5.0	SL-677-SA5C-SB-0.0-0.5	SL-677-SA5C-SB-4.0-5.0	SL-678-SA5C-SB-0.0-0.5	SL-678-SA5C-SB-2.5-3.5	SL-679-SA5C-SB-0.0-0.5	SL-680-SA5C-SB-0.0-0.5	SL-681-SA5C-SB-0.0-0.5
				Sample Type	FD	N	N	N	N	N	N	N
				Sample Date	05/23/2012	05/24/2012	05/24/2012	05/23/2012	05/23/2012	04/12/2012	04/17/2012	04/12/2012
				SDG	12E187	12E204	12E204	12E187	12E187	12D121	12D155	12D121
				Start Depth	4	0	4	0	2.5	0	0	0
				End Depth	5	0.5	5	0.5	3.5	0.5	0.5	0.5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.6 U	5.8 U	5.7 U	5.5 U	5.5 U	5.5 U	5.5 U	5.8 U	5.4 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.6 U	5.8 U	5.7 U	5.5 U	5.5 U	5.5 U	5.5 U	5.8 U	5.4 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	14	3.7 J Z	15	13	4.2 J Z	5.5 U	5.5 U	7.2	15
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	17	12 U	26	8.7 J Z	5.6 J Z	11 U	11 U	13	26
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.6 U	5.8 U	5.7 U	5.5 U	5.5 U	5.5 U	5.5 U	5.8 U	5.4 U

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 R - Result is rejected

Sample Name				SL-681-SA5C-SB-4.0-5.0	SL-681-SA5C-SB-7.5-8.5	SL-682-SA5C-SB-0.0-0.5	SL-682-SA5C-SB-4.0-5.0	SL-682-SA5C-SB-9.0-10.0	SL-683-SA5C-SB-0.0-0.5	SL-683-SA5C-SB-4.0-5.0	SL-683-SA5C-SB-7.0-8.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/23/2012	05/23/2012	05/22/2012	05/22/2012	05/22/2012	04/12/2012	06/13/2012	06/13/2012
SDG				12E187	12E187	12E169	12E169	12E169	12D121	12F093	12F093
Start Depth				4	7.5	0	4	9	0	4	7
End Depth				5	8.5	0.5	5	10	0.5	5	8
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.6 U	5.5 U	5.6 U	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.6 U	5.5 U	5.6 U	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.6 U	5.5 U	30	5.7 U	10	4.4 J Z	5.3 U	5.5 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	11 U	11 U	46	11 U	11	11 U	11 U	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.6 U	5.5 U	5.6 U	5.7 U	5.7 U	5.6 U	5.3 U	5.5 U

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

Sample Name				SL-684-SA5C-SB-0.0-0.5	SL-684-SA5C-SB-2.5-3.5	SL-685-SA5C-SB-0.0-0.5	SL-685-SA5C-SB-4.0-5.0	SL-685-SA5C-SB-7.0-8.0	SL-686-SA5C-SB-0.0-0.5	SL-686-SA5C-SB-4.0-5.0	SL-686-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/12/2012	06/13/2012	04/12/2012	06/13/2012	06/13/2012	04/12/2012	05/17/2012	05/17/2012
SDG				12D121	12F093	12D121	12F093	12F093	12D121	12E134	12E134
Start Depth				0	2.5	0	4	7	0	4	9
End Depth				0.5	3.5	0.5	5	8	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.9 U	5.4 U	5.5 U	5.4 U	5.7 U	5.5 U	5.5 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.9 U	5.4 U	5.5 U	5.4 U	5.7 U	5.5 U	5.5 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.9 U	5.4 U	5.5 U	5.4 U	5.7 U	2.9 J Z	5.5 U	5.5 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	12 U	11 U	11 U	11 U	11 U	11 U	11 U	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.9 U	5.4 U	5.5 U	5.4 U	5.7 U	5.5 U	5.5 U	5.5 U

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

Sample Name				SL-687-SA5C-SB-0.0-0.5	SL-687-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-0.0-0.5	SL-688-SA5C-SB-4.0-5.0	SL-688-SA5C-SB-9.0-10.0	SL-689-SA5C-SB-0.0-0.5	SL-689-SA5C-SB-4.0-5.0	SL-689-SA5C-SB-7.5-8.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/16/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012
SDG				12D147	12F074	12D147	12F074	12F074	12D147	12F074	12F074
Start Depth				0	4	0	4	9	0	4	7.5
End Depth				0.5	5	0.5	5	10	0.5	5	8.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.8 U	5.4 U	5.4 U	5.6 U	5.6 U	6.0 U	5.5 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.8 U	5.4 U	5.4 U	5.6 U	5.6 U	6.0 U	5.5 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.6 J Z	5.4 U	39	5.6 U	5.6 U	6.0 U	5.5 U	3.5 J Z
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	16	11 U	44	11 U	11 U	12 U	11 U	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.8 U	5.4 U	5.4 U	5.6 U	5.6 U	6.0 U	5.5 U	5.5 U

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

				Sample Name	SL-690-SA5C-SB-0.0-0.5	SL-690-SA5C-SB-3.5-4.5	SL-691-SA5C-SB-0.0-0.5	SL-692-SA5C-SB-0.0-0.5	SL-692-SA5C-SB-5.0-6.0	SL-693-SA5C-SB-0.0-0.5	SL-693-SA5C-SB-4.0-5.0	SL-693-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	04/16/2012	06/12/2012	04/16/2012	04/16/2012	06/12/2012	04/16/2012	06/12/2012	06/12/2012
				SDG	12D147	12F074	12D147	12D147	12F074	12D147	12F074	12F074
				Start Depth	0	3.5	0	0	5	0	4	9
				End Depth	0.5	4.5	0.5	0.5	6	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.8 U	5.4 U	5.6 U	6.0 U	5.4 U	6.0 U	6.0 U	5.5 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.5 J Z	5.4 U	5.6 U	6.0 U	5.4 U	6.0 U	6.0 U	5.5 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	240	5.4 U	14	6.0 U	5.4 U	6.0 U	6.0 U	3.9 J Z	4.6 J Z
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	130	11 U	20	12 U	11 U	12 U	12 U	11 U	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.8 U	5.4 U	5.6 U	6.0 U	5.4 U	6.0 U	6.0 U	5.5 U	5.5 U

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

Sample Name				SL-694-SA5C-SB-0.0-0.5	SL-694-SA5C-SB-4.0-5.0	SL-694-SA5C-SB-9.0-10.0	SL-695-SA5C-SB-0.0-0.5	SL-995-SA5C-SB-0.0-0.5	SL-695-SA5C-SB-4.0-5.0	SL-695-SA5C-SB-9.0-10.0	SL-697-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	FD	N	N	N
Sample Date				05/24/2012	05/24/2012	05/24/2012	04/26/2012	04/26/2012	05/16/2012	05/16/2012	04/26/2012
SDG				12E204	12E204	12E204	12D256	12D256	12E116	12E116	12D256
Start Depth				0	4	9	0	0	4	9	0
End Depth				0.5	5	10	0.5	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.8 U	5.5 U	5.7 U	5.4 U	5.4 U	5.4 U	5.8 U	5.4 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.8 U	5.5 U	5.7 U	5.4 U	5.4 U	5.4 U	5.8 U	5.4 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.8 U	5.5 U	5.7 U	5.4 U	5.4 U	5.4 U	5.8 U	5.4 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	12 U	11 U	11 U	7.1 J FD, Z	11 UJ FD	11 U	12 U	6.0 J Z
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.8 U	5.5 U	5.7 U	5.4 U	5.4 U	5.4 U	5.8 U	5.4 U

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

Sample Name				SL-697-SA5C-SB-4.0-5.0	SL-697-SA5C-SB-9.0-10.0	SL-698-SA5C-SB-0.0-0.5	SL-698-SA5C-SB-4.0-5.0	SL-698-SA5C-SB-9.0-10.0	SL-699-SA5C-SB-0.0-0.5	SL-699-SA5C-SB-4.0-5.0	SL-699-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/16/2012	05/16/2012	04/25/2012	05/16/2012	05/16/2012	04/25/2012	06/18/2012	06/18/2012
SDG				12E116	12E116	12D231	12E116	12E116	12D231	12F120	12F120
Start Depth				4	9	0	4	9	0	4	9
End Depth				5	10	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.4 U	5.7 U	5.4 U	5.6 U	5.4 U	5.5 U	5.7 U	5.7 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	11	5.7 U	5.4 U	5.6 U	5.4 U	5.5 U	5.7 U	5.7 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.8	5.7 U	50	3.0 J Z	8	28	5.8	5.7 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	11 U	11 U	78	11 U	13	62	15	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.4 U	5.7 U	5.4 U	5.6 U	5.4 U	5.5 U	5.7 U	5.7 U

U - Compound not detected above the reporting limit  
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 R - Result is rejected

Sample Name				SL-700-SA5C-SB-0.0-0.5	SL-1000-SA5C-SB-4.0-5.0	SL-700-SA5C-SB-4.0-5.0	SL-700-SA5C-SB-9.0-10.0	SL-701-SA5C-SB-0.0-0.5	SL-701-SA5C-SB-4.0-5.0	SL-701-SA5C-SB-9.0-10.0	SL-703-SA5C-SB-0.0-0.5
Sample Type				N	FD	N	N	N	N	N	N
Sample Date				04/26/2012	06/18/2012	06/18/2012	06/18/2012	04/26/2012	06/18/2012	06/18/2012	04/26/2012
SDG				12D256	12F120	12F120	12F120	12D256	12F120	12F120	12D256
Start Depth				0	4	4	9	0	4	9	0
End Depth				0.5	5	5	10	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.5 U	5.6 U	5.6 U	5.6 U	5.3 U	5.6 U	5.5 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.5 U	5.6 U	5.6 U	5.6 U	5.3 U	5.6 U	5.5 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	38	9.3	11	22	5.3 U	5.6 U	5.5 U	21
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	86	16	25	42	11 U	11 U	11 U	53
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.5 U	5.6 U	5.6 U	5.6 U	5.3 U	5.6 U	5.5 U	5.5 U

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

Sample Name				SL-703-SA5C-SB-4.0-5.0	SL-703-SA5C-SB-9.0-10.0	SL-704-SA5C-SB-0.0-0.5	SL-704-SA5C-SB-4.0-5.0	SL-704-SA5C-SB-9.0-10.0	SL-705-SA5C-SB-0.0-0.5	SL-705-SA5C-SB-4.0-5.0	SL-705-SA5C-SB-9.0-10.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/18/2012	06/18/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012
SDG				12F120	12F120	12E204	12E204	12E204	12E204	12E204	12E204
Start Depth				4	9	0	4	9	0	4	9
End Depth				5	10	0.5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.6 U	5.7 U	5.6 U	29 U	5.6 U	5.7 U	5.6 U	5.7 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.6 U	5.7 U	5.6 U	29 U	5.6 U	5.7 U	5.6 U	5.7 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.6 U	5.7 U	36	85	9.7	5.7 U	16	5.7 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	11 U	11 U	60	190	11	11 U	32	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.6 U	5.7 U	5.6 U	29 U	5.6 U	5.7 U	5.6 U	5.7 U

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

Sample Name				SL-706-SA5C-SB-0.0-0.5	SL-706-SA5C-SB-4.0-5.0	SL-706-SA5C-SB-9.0-10.0	SL-707-SA5C-SB-13.0-14.0	SL-711-SA5C-SB-0.0-0.5	SL-711-SA5C-SB-4.0-5.0	SL-711-SA5C-SB-9.0-10.0	SL-712-SA5C-SB-0.0-0.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/29/2012	05/29/2012	05/29/2012	06/14/2012	04/26/2012	06/14/2012	06/14/2012	04/30/2012
SDG				12E229	12E229	12E229	12F102	12D256	12F102	12F102	12D275
Start Depth				0	4	9	13	0	4	9	0
End Depth				0.5	5	10	14	0.5	5	10	0.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	27 U	5.5 U	5.5 U	5.5 U	5.3 U	5.6 U	5.4 U	5.3 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	27 U	5.5 U	5.5 U	5.5 U	5.3 U	5.6 U	5.4 U	5.3 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	62	5.5 U	23	5.5 U	6.1	3.9 J Z	5.4 U	3.5 J Z
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	120	11 U	61	11 U	9.4 J Z	11 U	11 U	7.8 J Z
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	27 U	5.5 U	5.5 U	5.5 U	5.3 U	5.6 U	5.4 U	5.3 U

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

Sample Name				SL-712-SA5C-SB-4.0-5.0	SL-712-SA5C-SB-9.0-10.0	SL-713-SA5C-SB-0.0-0.5	SL-713-SA5C-SB-6.0-7.0	SL-715-SA5C-SB-0.0-0.5	SL-715-SA5C-SB-6.0-7.0	SL-720-SA5C-SB-0.0-0.5	SL-720-SA5C-SB-4.5-5.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				06/14/2012	06/14/2012	04/30/2012	06/14/2012	04/30/2012	06/14/2012	04/30/2012	06/13/2012
SDG				12F102	12F102	12D275	12F102	12D275	12F102	12D275	12F093
Start Depth				4	9	0	6	0	6	0	4.5
End Depth				5	10	0.5	7	0.5	7	0.5	5.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.6 U	5.6 U	5.4 U	5.4 U	5.3 U	5.3 U	5.3 U	5.6 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.6 U	5.6 U	5.4 U	5.4 U	5.3 U	5.3 U	5.3 U	5.6 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.6 U	5.6 U	4.7 J Z	5.4 U	5.3	5.3 U	4.4 J Z	5.6 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	11 U	11 U	9.0 J Z	6.9 J Z	6.8 J Z	6.6 J Z	11	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.6 U	5.6 U	5.4 U	5.4 U	5.3 U	3.2 J Z	5.3 U	5.6 U

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 R - Result is rejected

Sample Name				SL-1022-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-6.0-7.0	SL-723-SA5C-SB-0.0-0.5	SL-723-SA5C-SB-4.0-5.0	SL-723-SA5C-SB-9.0-10.0	SL-724-SA5C-SB-0.0-0.5	SL-724-SA5C-SB-4.0-5.0
Sample Type				FD	N	N	N	N	N	N	N
Sample Date				05/01/2012	05/01/2012	06/13/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012
SDG				12E004	12E004	12F093	12E229	12E229	12E229	12E229	12E229
Start Depth				0	0	6	0	4	9	0	4
End Depth				0.5	0.5	7	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.2 U	5.2 U	5.5 U	5.3 U	5.6 U	5.4 U	5.8 U	5.8 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.2 U	5.2 U	5.5 U	5.3 U	5.6 U	5.4 U	5.8 U	5.8 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	5.2 U	5.2 U	5.5 U	31	5.6 U	5.4 U	3.2 J Z	5.8 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	10 U	10 U	11 U	46	11 U	11 U	12 U	12 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.2 U	5.2 U	5.5 U	5.3 U	5.6 U	5.4 U	5.8 U	5.8 U

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 R - Result is rejected

Sample Name				SL-724-SA5C-SB-9.0-10.0	SL-727-SA5C-SB-0.0-0.5	SL-1027-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-9.0-10.0	SL-728-SA5C-SB-0.0-0.5	SL-728-SA5C-SB-4.0-5.0	SL-728-SA5C-SB-9.0-10.0
Sample Type				N	N	FD	N	N	N	N	N
Sample Date				05/29/2012	05/21/2012	05/21/2012	05/21/2012	05/21/2012	05/21/2012	05/21/2012	05/21/2012
SDG				12E229	12E155	12E155	12E155	12E155	12E155	12E155	12E155
Start Depth				9	0	4	4	9	0	4	9
End Depth				10	0.5	5	5	10	0.5	5	10
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.7 U	5.5 U	5.7 U	5.7 U	5.6 U	5.6 U	5.7 U	5.7 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.7 U	9.2	5.7 U	5.7 U	5.6 U	5.6 U	5.7 U	5.7 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	18	190	26	23	160	28	26	5.0 J Z
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	28	230	21	17	150	29	45	6.3 J Z
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.7 U	5.5 U	5.7 UJ FD	1.3 J FD, Z	5.6 U	5.6 U	5.7 U	5.7 U

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

Sample Name				SL-729-SA5C-SB-0.0-0.5	SL-729-SA5C-SB-4.0-5.0	SL-729-SA5C-SB-9.0-10.0	SL-730-SA5C-SB-0.0-0.5	SL-730-SA5C-SB-4.0-5.0	SL-730-SA5C-SB-9.0-10.0	SL-731-SA5C-SB-0.0-0.5	SL-731-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/21/2012	05/21/2012	05/21/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012
SDG				12E155	12E155	12E155	12E169	12E169	12E169	12E169	12E169
Start Depth				0	4	9	0	4	9	0	4
End Depth				0.5	5	10	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.6 U	5.6 U	5.7 U	5.5 U	5.6 U	5.7 U	5.5 U	5.7 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.6 U	5.6 U	5.7 U	5.5 U	5.6 U	5.7 U	5.5 U	5.7 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	33	5.2 J Z	47	11	8.1	15	16	4.4 J Z
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	33	17	78	11	7.2 J Z	17	21	9.4 J Z
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.6 U	5.6 U	5.7 U	5.5 U	5.6 U	5.7 U	5.5 U	5.7 U

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

Sample Name				SL-731-SA5C-SB-9.0-10.0	SL-732-SA5C-SB-5.0-6.0	SL-732-SA5C-SB-10.5-11.5	SL-733-SA5C-SB-0.0-0.5	SL-733-SA5C-SB-4.0-5.0	SL-733-SA5C-SB-9.0-10.0	SL-734-SA5C-SB-0.0-0.5	SL-734-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/21/2012	05/21/2012
SDG				12E169	12E169	12E169	12E169	12E169	12E169	12E155	12E155
Start Depth				9	5	10.5	0	4	9	0	4
End Depth				10	6	11.5	0.5	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.5 U	5.6 U	5.4 U	5.5 U	5.5 U	5.6 U	5.5 U	5.7 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.5 U	5.6 U	5.4 U	5.5 U	5.5 U	5.6 U	5.5 U	5.7 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	56	4.6 J Z	5.4 U	52	6.6	5.6 U	55	78
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	140	7.4 J Z	11 U	71	6.4 J Z	11 U	56	93
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.5 U	5.6 U	5.4 U	5.5 U	5.5 U	5.6 U	5.5 U	5.7 U

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

Sample Name				SL-734-SA5C-SB-9.0-10.0	SL-735-SA5C-SB-0.0-0.5	SL-735-SA5C-SB-4.0-5.0	SL-735-SA5C-SB-9.0-10.0	SL-736-SA5C-SB-4.0-5.0	SL-736-SA5C-SB-9.0-10.0	SL-737-SA5C-SB-0.0-0.5	SL-737-SA5C-SB-4.0-5.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				05/21/2012	04/12/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	04/12/2012	05/17/2012
SDG				12E155	12D121	12E134	12E134	12E134	12E134	12D121	12E134
Start Depth				9	0	4	9	4	9	0	4
End Depth				10	0.5	5	10	5	10	0.5	5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.6 U	5.5 U	5.5 U	5.6 U	5.4 U	5.6 U	5.4 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.6 U	5.5 U	5.5 U	5.6 U	5.4 U	5.6 U	5.4 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	120	26	5.5 U	5.6 U	5.4 U	5.6 U	6.9	5.5 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	110	22	11 U	11 U	11 U	11 U	13	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.6 U	5.5 U	5.5 U	5.6 U	5.4 U	5.6 U	5.4 U	5.5 U

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

				Sample Name	SL-737-SA5C-SB-9.0-10.0	SL-738-SA5C-SB-0.0-0.5	SL-738-SA5C-SB-4.0-5.0	SL-738-SA5C-SB-9.0-10.0	SL-739-SA5C-SB-0.0-0.5	SL-739-SA5C-SB-4.0-5.0	SL-739-SA5C-SB-9.0-10.0	SL-740-SA5C-SB-9.0-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/21/2012
				SDG	12E134	12E134	12E134	12E134	12E134	12E134	12E134	12E155
				Start Depth	9	0	4	9	0	4	9	9
				End Depth	10	0.5	5	10	0.5	5	10	10
Analytic Method	CAS Number	Chemical Name	Unit									
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.6 U	5.5 U	5.6 U	5.6 U	5.6 U	5.4 U	5.6 U	5.5 U	5.6 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.6 U	5.5 U	5.6 U	5.6 U	5.6 U	5.4 U	5.6 U	5.5 U	5.6 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	3.8 J Z	29	10	13	13	10	9.5	5.5 U	14
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	11 U	35	9.4 J Z	13	13	9.7 J Z	7.4 J Z	11 U	11
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.6 U	5.5 U	5.6 U	5.6 U	5.6 U	5.4 U	5.6 U	5.5 U	5.6 U

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

Sample Name				SL-741-SA5C-SB-0.0-0.5	SL-741-SA5C-SB-4.0-5.0	SL-741-SA5C-SB-9.0-10.0	SL-742-SA5C-SB-0.0-0.5	SL-743-SA5C-SB-1.0-2.0	SL-743-SA5C-SB-4.0-5.0	SL-743-SA5C-SB-9.0-10.0	SL-743-SA5C-SB-14.0-15.0
Sample Type				N	N	N	N	N	N	N	N
Sample Date				07/24/2012	07/24/2012	07/24/2012	07/24/2012	06/12/2012	06/12/2012	06/12/2012	06/12/2012
SDG				12G199	12G199	12G199	12G199	12F074	12F074	12F074	12F074
Start Depth				0	4	9	0	1	4	9	14
End Depth				0.5	5	10	0.5	2	5	10	15
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.5 U	5.6 U	5.7 U	5.4 U	5.5 U	5.6 U	5.5 U	5.1 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.5 U	5.6 U	5.7 U	5.4 U	5.5 U	5.6 U	5.5 U	5.1 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	22	3.3 J Z	12	19	5.5 U	3.9 J Z	4.7 J Z	5.1 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	76	15	28	79	11 U	11 U	11 U	10 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.5 U	5.6 U	5.7 U	5.4 U	5.5 U	5.6 U	5.5 U	5.1 U

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 R - Result is rejected

Sample Name				SL-747-SA5C-SB-0.0-0.5	SL-747-SA5C-SB-2.5-3.5	SL-750-SA5C-SB-0.0-0.5	SL-750-SA5C-SB-5.5-6.5	SL-752-SA5C-SB-0.0-0.5	SL-755-SA5C-SB-0.0-0.5	SL-755-SA5C-SB-4.0-5.0	SL-755-SA5C-SB-5.5-6.5
Sample Type				N	N	N	N	N	N	N	N
Sample Date				04/17/2012	06/26/2012	05/29/2012	05/29/2012	05/30/2012	07/10/2012	07/10/2012	07/10/2012
SDG				12D155	12F197	12E229	12E229	12E244	12G048	12G048	12G048
Start Depth				0	2.5	0	5.5	0	0	4	5.5
End Depth				0.5	3.5	0.5	6.5	0.5	0.5	5	6.5
Analytic Method	CAS Number	Chemical Name	Unit								
8015B EFH	PHCC12C14	EFH (C12-C14)	mg/kg	5.9 U	5.5 U	5.5 U	5.5 U	5.8 U	5.3 U	5.6 U	5.5 U
8015B EFH	PHCC15C20	EFH (C15-C20)	mg/kg	5.9 U	5.5 U	5.5 U	5.5 U	5.8 U	5.3 U	5.6 U	5.5 U
8015B EFH	PHCC21C30	EFH (C21-C30)	mg/kg	13	5.5 U	5.5 U	5.5 U	5.8 U	33	4.9 J Z	5.5 U
8015B EFH	PHCC30C40	EFH (C30-C40)	mg/kg	41	11 U	11 U	11 U	12 U	71	12	11 U
8015B EFH	PHCC8C11	EFH (C8-C11)	mg/kg	5.9 U	5.5 U	5.5 U	5.5 U	5.8 U	5.3 U	5.6 U	5.5 U

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				Sample Name	SL-512-SA5C-SB-5.0	SL-512-SA5C-SB-7.0	SL-513-SA5C-SB-5.0	SL-513-SA5C-SB-10.0	SL-514-SA5C-SB-5.0	SL-514-SA5C-SB-10.0	SL-515-SA5C-SB-5.0	SL-515-SA5C-SB-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/10/2012	05/10/2012	05/10/2012	05/14/2012	05/14/2012	05/14/2012	06/25/2012	06/25/2012
				SDG	12E082	12E082	12E082	12E098	12E098	12E098	12F182	12F182
				Start Depth	5	7	5	10	5	10	5	10
				End Depth	5	7	5	10	5	10	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		1.0 U	1.0 U	1.0 U	0.99 U	1.0 U	0.95 U	1.3 U	1.1 U

U - Compound not detected above the reporting limit  
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 R - Result is rejected

				Sample Name	SL-516-SA5C-SB-5.0	SL-524-SA5C-SB-5.0	SL-525-SA5C-SB-5.0	SL-525-SA5C-SB-10.0	SL-526-SA5C-SB-5.0	SL-526-SA5C-SB-10.0	SL-527-SA5C-SB-5.0	SL-528-SA5C-SB-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/01/2012	06/19/2012	06/19/2012	06/19/2012	06/19/2012	06/19/2012	06/19/2012	06/19/2012
				SDG	12E004	12F132	12F132	12F132	12F132	12F132	12F132	12F132
				Start Depth	5	5	5	10	5	10	5	5
				End Depth	5	5	5	10	5	10	5	5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		0.99 U	1.0 U	0.95 U	0.97 U	1.0 U	1.1 U	1.0 U	0.96 U

				Sample Name	SL-828-SA5C-SB-5.0	SL-529-SA5C-SB-5.0	SL-536-SA5C-SB-5.0	SL-536-SA5C-SB-10.0	SL-537-SA5C-SB-5.0	SL-537-SA5C-SB-10.0	SL-539-SA5C-SB-7.0	SL-543-SA5C-SB-4.5
				Sample Type	FD	N	N	N	N	N	N	N
				Sample Date	06/19/2012	05/10/2012	06/01/2012	06/01/2012	06/07/2012	06/07/2012	06/05/2012	06/05/2012
				SDG	12F132	12E082	12F020	12F020	12F051	12F051	12F037	12F037
				Start Depth	5	5	5	10	5	10	7	4.5
				End Depth	5	5	5	10	5	10	7	4.5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		1.2 U	1.1 U	1.0 U	0.91 U	1.0 U	1.0 U	1.1 U	1.0 U

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				Sample Name	SL-544-SA5C-SB-6.0	SL-545-SA5C-SB-5.0	SL-545-SA5C-SB-10.0	SL-546-SA5C-SB-5.0	SL-846-SA5C-SB-5.0	SL-546-SA5C-SB-10.0	SL-547-SA5C-SB-5.0	SL-547-SA5C-SB-10.0
				Sample Type	N	N	N	N	FD	N	N	N
				Sample Date	05/30/2012	06/04/2012	06/04/2012	06/06/2012	06/06/2012	06/06/2012	06/07/2012	06/07/2012
				SDG	12E244	12F037	12F037	12F044	12F044	12F044	12F051	12F051
				Start Depth	6	5	10	5	5	10	5	10
				End Depth	6	5	10	5	5	10	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		1.0 U	0.99 U	1.0 U	0.98 U	1.0 U	0.93 U	0.98 U	1.1 U

				Sample Name	SL-548-SA5C-SB-5.0	SL-548-SA5C-SB-10.0	SL-551-SA5C-SB-5.0	SL-555-SA5C-SB-3.5	SL-559-SA5C-SB-3.0	SL-559-SA5C-SB-8.0	SL-560-SA5C-SB-7.5	SL-561-SA5C-SB-6.5	SL-562-SA5C-SB-5.0
				Sample Type	N	N	N	N	N	N	N	N	N
				Sample Date	06/07/2012	06/07/2012	06/05/2012	05/29/2012	06/07/2012	06/07/2012	05/30/2012	06/05/2012	06/01/2012
				SDG	12F051	12F051	12F037	12E229	12F051	12F051	12E244	12F037	12F020
				Start Depth	5	10	5	3.5	3	8	7.5	6.5	5
				End Depth	5	10	5	3.5	3	8	7.5	6.5	5
Analytic Method	CAS Number	Chemical Name	Unit										
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg	0.98 U	0.93 U	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	0.94 U	1.1 U	0.99 U

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 R - Result is rejected

				Sample Name	SL-562-SA5C-SB-10.0	SL-563-SA5C-SB-5.0	SL-563-SA5C-SB-10.0	SL-570-SA5C-SB-1.5	SL-571-SA5C-SB-5.0	SL-571-SA5C-SB-10.0	SL-572-SA5C-SB-5.0	SL-872-SA5C-SB-5.0
				Sample Type	N	N	N	N	N	N	N	FD
				Sample Date	06/01/2012	06/01/2012	06/01/2012	05/01/2012	06/07/2012	06/07/2012	06/19/2012	06/19/2012
				SDG	12F020	12F020	12F020	12E004	12F051	12F051	12F132	12F132
				Start Depth	10	5	10	1.5	5	10	5	5
				End Depth	10	5	10	1.5	5	10	5	5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg	0.91 U	0.96 U	0.88 U	1.1 U	1.3 U	0.93 U	1.1 U	1.1 U	

				Sample Name	SL-579-SA5C-SB-5.0	SL-580-SA5C-SB-5.0	SL-581-SA5C-SB-5.0	SL-881-SA5C-SB-5.0	SL-584-SA5C-SB-5.0	SL-585-SA5C-SB-5.0	SL-586-SA5C-SB-4.5	SL-586-SA5C-SB-9.5	SL-587-SA5C-SB-5.0
				Sample Type	N	N	N	FD	N	N	N	N	N
				Sample Date	05/01/2012	05/01/2012	06/26/2012	06/26/2012	06/21/2012	06/21/2012	07/11/2012	07/11/2012	06/20/2012
				SDG	12E004	12E004	12F197	12F197	12F162	12F162	12G064	12G064	12F146
				Start Depth	5	5	5	5	5	5	4.5	9.5	5
				End Depth	5	5	5	5	5	5	4.5	9.5	5
Analytic Method	CAS Number	Chemical Name	Unit										
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg	1.1 U	1.6 U	1.1 U	1.2 U	0.94 U	1.0 U	1.5 U	0.98 U	1.0 U	

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				Sample Name	SL-887-SA5C-SB-5.0	SL-587-SA5C-SB-9.5	SL-592-SA5C-SB-0.5	SL-594-SA5C-SB-6.0	SL-594-SA5C-SB-9.0	SL-599-SA5C-SB-5.0	SL-600-SA5C-SB-5.0	SL-602-SA5C-SB-5.0	SL-603-SA5C-SB-5.0
				Sample Type	FD	N	N	N	N	N	N	N	N
				Sample Date	06/20/2012	06/20/2012	05/07/2012	06/21/2012	06/21/2012	06/21/2012	06/21/2012	06/21/2012	06/21/2012
				SDG	12F146	12F146	12E049	12F162	12F162	12F162	12F162	12F162	12F162
				Start Depth	5	9.5	0.5	6	9	4	5	5	5
				End Depth	5	9.5	0.5	6	9	5	5	5	5
Analytic Method	CAS Number	Chemical Name	Unit										
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg	0.93 U	1.0 U	0.94 U	0.99 U	1.0 U	1.2 U	1.0 U	1.0 U	1.0 U	1.1 U

				Sample Name	SL-604-SA5C-SB-5.0	SL-607-SA5C-SB-4.5	SL-607-SA5C-SB-9.5	SL-608-SA5C-SB-3.0	SL-609-SA5C-SB-4.0	SL-611-SA5C-SB-6.0	SL-612-SA5C-SB-5.0	SL-912-SA5C-SB-5.0	SL-612-SA5C-SB-8.0
				Sample Type	N	N	N	N	N	N	N	FD	N
				Sample Date	06/20/2012	07/11/2012	07/11/2012	05/31/2012	05/31/2012	05/31/2012	05/31/2012	05/31/2012	05/31/2012
				SDG	12F146	12G064	12G064	12E267	12E267	12E267	12E267	12E267	12E267
				Start Depth	4	4.5	9.5	3	4	6	5	5	8
				End Depth	5	4.5	9.5	3	4	6	5	5	8
Analytic Method	CAS Number	Chemical Name	Unit										
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		0.93 U	1.2 U	1.2 U	1.0 U	1.0 U	0.96 U	1.1 U	0.99 U	1.3 U

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 R - Result is rejected

				Sample Name	SL-615-SA5C-SB-5.0	SL-615-SA5C-SB-10.0	SL-618-SA5C-SB-1.0	SL-628-SA5C-SB-10.5	SL-628-SA5C-SB-12.5	SL-630-SA5C-SB-9.0	SL-670-SA5C-SB-5.0	SL-671-SA5C-SB-3.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/05/2012	06/05/2012	05/31/2012	06/20/2012	06/20/2012	06/20/2012	06/19/2012	05/23/2012
				SDG	12F037	12F037	12E267	12F146	12F146	12F146	12F132	12E187
				Start Depth	5	10	1	10.5	12.5	9	5	3
				End Depth	5	10	1	10.5	12.5	9	5	3
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		1.1 U	0.98 U	1.0 U	1.0 U	1.1 U	0.95 U	1.1 U	0.90 U

				Sample Name	SL-672-SA5C-SB-5.0	SL-674-SA5C-SB-3.5	SL-676-SA5C-SB-5.0	SL-976-SA5C-SB-5.0	SL-677-SA5C-SB-5.0	SL-678-SA5C-SB-3.5	SL-681-SA5C-SB-5.0	SL-681-SA5C-SB-8.5	SL-682-SA5C-SB-5.0
				Sample Type	N	N	N	FD	N	N	N	N	N
				Sample Date	05/24/2012	05/23/2012	05/23/2012	05/23/2012	05/24/2012	05/23/2012	05/23/2012	05/23/2012	05/22/2012
				SDG	12E204	12E187	12E187	12E187	12E204	12E187	12E187	12E187	12E169
				Start Depth	5	3.5	5	5	5	3.5	5	8.5	5
				End Depth	5	3.5	5	5	5	3.5	5	8.5	5
Analytic Method	CAS Number	Chemical Name	Unit										
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg	0.99 U	1.1 U	0.94 U	0.98 U	1.2 U	1.0 U	1.0 U	0.99 U	0.92 U	

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 R - Result is rejected

				Sample Name	SL-682-SA5C-SB-10.0	SL-683-SA5C-SB-5.0	SL-683-SA5C-SB-8.0	SL-684-SA5C-SB-3.5	SL-685-SA5C-SB-5.0	SL-685-SA5C-SB-8.0	SL-686-SA5C-SB-5.0	SL-686-SA5C-SB-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/22/2012	06/13/2012	06/13/2012	06/13/2012	06/13/2012	06/13/2012	05/17/2012	05/17/2012
				SDG	12E169	12F093	12F093	12F093	12F093	12F093	12E134	12E134
				Start Depth	10	5	8	3.5	5	8	5	10
				End Depth	10	5	8	3.5	5	8	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		1.0 U	1.1 U	1.2 U	1.1 U	1.1 U	1.6 U	1.1 U	0.95 U

				Sample Name	SL-687-SA5C-SB-5.0	SL-688-SA5C-SB-5.0	SL-688-SA5C-SB-10.0	SL-689-SA5C-SB-5.0	SL-689-SA5C-SB-8.5	SL-690-SA5C-SB-4.5	SL-692-SA5C-SB-6.0	SL-693-SA5C-SB-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/12/2012	06/12/2012	06/12/2012	06/12/2012	06/12/2012	06/12/2012	06/12/2012	06/12/2012
				SDG	12F074	12F074	12F074	12F074	12F074	12F074	12F074	12F074
				Start Depth	5	5	10	5	8.5	4.5	6	5
				End Depth	5	5	10	5	8.5	4.5	6	5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		1.2 U	0.87 U	1.0 U	0.83 U	1.3 U	1.0 U	1.2 U	0.84 U

U - Compound not detected above the reporting limit  
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 R - Result is rejected

				Sample Name	SL-693-SA5C-SB-10.0	SL-694-SA5C-SB-5.0	SL-694-SA5C-SB-10.0	SL-695-SA5C-SB-5.0	SL-695-SA5C-SB-10.0	SL-697-SA5C-SB-5.0	SL-697-SA5C-SB-10.0	SL-698-SA5C-SB-5.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/12/2012	05/24/2012	05/24/2012	05/16/2012	05/16/2012	05/16/2012	05/16/2012	05/16/2012
				SDG	12F074	12E204	12E204	12E116	12E116	12E116	12E116	12E116
				Start Depth	9	5	10	5	10	5	10	5
				End Depth	10	5	10	5	10	5	10	5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		0.88 U	1.0 U	0.97 U	1.1 U	1.1 U	1.0 U	0.92 U	0.99 U

				Sample Name	SL-698-SA5C-SB-10.0	SL-699-SA5C-SB-5.0	SL-699-SA5C-SB-10.0	SL-1000-SA5C-SB-5.0	SL-700-SA5C-SB-5.0	SL-700-SA5C-SB-10.0	SL-701-SA5C-SB-5.0	SL-701-SA5C-SB-10.0
				Sample Type	N	N	N	FD	N	N	N	N
				Sample Date	05/16/2012	06/18/2012	06/18/2012	06/18/2012	06/18/2012	06/18/2012	06/18/2012	06/18/2012
				SDG	12E116	12F120	12F120	12F120	12F120	12F120	12F120	12F120
				Start Depth	10	5	10	5	5	10	5	10
				End Depth	10	5	10	5	5	10	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		1.0 U	0.87 U	1.0 U	1.1 U	0.94 U	1.0 U	0.87 U	1.1 U

U - Compound not detected above the reporting limit  
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 R - Result is rejected

				Sample Name	SL-703-SA5C-SB-5.0	SL-703-SA5C-SB-10.0	SL-704-SA5C-SB-5.0	SL-704-SA5C-SB-10.0	SL-705-SA5C-SB-5.0	SL-705-SA5C-SB-10.0	SL-706-SA5C-SB-5.0	SL-706-SA5C-SB-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/18/2012	06/18/2012	05/24/2012	05/24/2012	05/24/2012	05/24/2012	05/29/2012	05/29/2012
				SDG	12F120	12F120	12E204	12E204	12E204	12E204	12E229	12E229
				Start Depth	5	10	5	10	4	10	5	10
				End Depth	5	10	5	10	5	10	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		0.95 U	0.94 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U	0.93 U

				Sample Name	SL-707-SA5C-SB-14.0	SL-711-SA5C-SB-5.0	SL-711-SA5C-SB-10.0	SL-712-SA5C-SB-5.0	SL-712-SA5C-SB-10.0	SL-713-SA5C-SB-7.0	SL-715-SA5C-SB-7.0	SL-720-SA5C-SB-5.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	06/14/2012	06/14/2012	06/14/2012	06/14/2012	06/14/2012	06/14/2012	06/14/2012	06/13/2012
				SDG	12F102	12F102	12F102	12F102	12F102	12F102	12F102	12F093
				Start Depth	14	5	10	5	10	7	7	5.5
				End Depth	14	5	10	5	10	7	7	5.5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg	1.1 U	1.1 U	1.3 U	1.1 U	1.0 U	1.1 U	1.0 U	1.2 U	

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

				Sample Name	SL-722-SA5C-SB-7.0	SL-723-SA5C-SB-5.0	SL-723-SA5C-SB-10.0	SL-724-SA5C-SB-5.0	SL-724-SA5C-SB-10.0	SL-1027-SA5C-SB-5.0	SL-727-SA5C-SB-5.0	SL-727-SA5C-SB-10.0
				Sample Type	N	N	N	N	N	FD	N	N
				Sample Date	06/13/2012	05/29/2012	05/29/2012	05/29/2012	05/29/2012	05/21/2012	05/21/2012	05/21/2012
				SDG	12F093	12E229	12E229	12E229	12E229	12E155	12E155	12E155
				Start Depth	7	5	10	5	10	5	5	9
				End Depth	7	5	10	5	10	5	5	9
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		0.97 U	0.91 U	0.95 U	0.95 U	1.0 U	0.95 U	0.94 U	0.88 U

				Sample Name	SL-728-SA5C-SB-10.0	SL-728-SA5C-SB-5.0	SL-729-SA5C-SB-5.0	SL-729-SA5C-SB-10.0	SL-730-SA5C-SB-5.0	SL-730-SA5C-SB-10.0	SL-731-SA5C-SB-5.0	SL-731-SA5C-SB-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/21/2012	05/21/2012	05/21/2012	05/21/2012	05/22/2012	05/22/2012	05/22/2012	05/22/2012
				SDG	12E155	12E155	12E155	12E155	12E169	12E169	12E169	12E169
				Start Depth	5	5	5	10	5	10	5	10
				End Depth	5	5	5	10	5	10	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		0.94 U	0.92 U	0.93 U	0.90 U	0.89 U	0.93 U	0.89 U	1.0 U

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

				Sample Name	SL-732-SA5C-SB-6.0	SL-732-SA5C-SB-11.5	SL-733-SA5C-SB-5.0	SL-733-SA5C-SB-10.0	SL-734-SA5C-SB-5.0	SL-734-SA5C-SB-10.0	SL-735-SA5C-SB-5.0	SL-735-SA5C-SB-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/22/2012	05/22/2012	05/22/2012	05/22/2012	05/21/2012	05/21/2012	05/17/2012	05/17/2012
				SDG	12E169	12E169	12E169	12E169	12E155	12E155	12E134	12E134
				Start Depth	6	11.5	5	10	5	10	5	10
				End Depth	6	11.5	5	10	5	10	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		0.89 U	0.99 U	1.1 U	1.0 U	0.92 U	0.95 U	0.93 U	1.1 U

				Sample Name	SL-736-SA5C-SB-5.0	SL-736-SA5C-SB-10.0	SL-737-SA5C-SB-5.0	SL-737-SA5C-SB-10.0	SL-738-SA5C-SB-5.0	SL-738-SA5C-SB-10.0	SL-739-SA5C-SB-5.0	SL-739-SA5C-SB-10.0
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012	05/17/2012
				SDG	12E134	12E134	12E134	12E134	12E134	12E134	12E134	12E134
				Start Depth	5	10	5	10	5	10	5	10
				End Depth	5	10	5	10	5	10	5	10
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		1.0 U	1.1 U	0.99 U	1.0 U	0.92 U	1.0 U	0.92 U	0.98 U

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

				Sample Name	SL-740-SA5C-SB-10.0	SL-741-SA5C-SB-4.5	SL-741-SA5C-SB-9.5	SL-743-SA5C-SB-2.0	SL-743-SA5C-SB-5.0	SL-743-SA5C-SB-10.0	SL-743-SA5C-SB-15.0	SL-747-SA5C-SB-3.5
				Sample Type	N	N	N	N	N	N	N	N
				Sample Date	05/21/2012	07/24/2012	07/24/2012	06/12/2012	06/12/2012	06/12/2012	06/12/2012	06/26/2012
				SDG	12E155	12G199	12G199	12F074	12F074	12F074	12F074	12F197
				Start Depth	10	4.5	9.5	2	5	10	15	3.5
				End Depth	10	4.5	9.5	2	5	10	15	3.5
Analytic Method	CAS Number	Chemical Name	Unit									
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg		0.93 U	0.94 U	1.1 U	0.98 U	0.87 U	0.87 U	1.5 U	1.0 U

				Sample Name	SL-750-SA5C-SB-6.5	SL-755-SA5C-SB-4.5	SL-755-SA5C-SB-6.0
				Sample Type	N	N	N
				Sample Date	05/29/2012	07/10/2012	07/10/2012
				SDG	12E229	12G048	12G048
				Start Depth	6.5	4.5	6
				End Depth	6.5	4.5	6
Analytic Method	CAS Number	Chemical Name	Unit				
8015B GRO	GROC5C12	Gasoline Range Organics (C5-C12)	mg/kg	1.2 U	1.3 U	1.3 U	

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

		Sample Name	SL-592-SA5C-SB-0.5	SL-594-SA5C-SB-6.0	SL-594-SA5C-SB-9.0	SL-618-SA5C-SB-1.0	SL-628-SA5C-SB-10.5	SL-628-SA5C-SB-12.5	
		Sample Type	N	N	N	N	N	N	
		Sample Date	05/07/2012	06/21/2012	06/21/2012	05/31/2012	06/20/2012	06/20/2012	
		SDG	12E049	12F162	12F162	12E267	12F146	12F146	
		Start Depth	0.5	6	9	1	10.5	12.5	
		End Depth	0.5	6	9	1	10.5	12.5	
Analytic Method	CAS Number	Chemical Name	Unit						
8260B	100-41-4	Ethylbenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	100-42-5	Styrene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	10061-01-5	cis-1,3-Dichloropropene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	10061-02-6	trans-1,3-Dichloropropene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	103-65-1	n-Propylbenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	104-51-8	n-Butylbenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	106-43-4	4-Chlorotoluene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	106-46-7	1,4-Dichlorobenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	106-93-4	1,2-Dibromoethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	107-02-8	Acrolein	µg/kg	9.9 U	9.1 U	10 U	9.1 UJ R	10 U	11 U
8260B	107-06-2	1,2-Dichloroethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	107-13-1	Acrylonitrile	µg/kg	9.9 U	9.1 U	10 U	9.1 U	10 U	11 U
8260B	108-05-4	Vinyl Acetate	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	108-10-1	4-Methyl-2-pentanone (MIBK)	µg/kg	9.9 U	9.1 U	10 U	9.1 U	10 U	11 U
8260B	108-20-3	Di isopropyl Ether	µg/kg	9.9 U	9.1 U	10 U	9.1 U	10 U	11 U
8260B	108-67-8	1,3,5-Trimethylbenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	108-86-1	Bromobenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	108-88-3	Toluene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	108-90-7	Chlorobenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	110-75-8	2-Chloroethyl Vinyl Ether	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	120-82-1	1,2,4-Trichlorobenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	124-48-1	Dibromochloromethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	127-18-4	Tetrachloroethene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	135-98-8	2-Phenylbutane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	142-28-9	1,3-Dichloropropane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	156-59-2	cis-1,2-Dichloroethene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	156-60-5	trans-1,2-Dichloroethene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	1634-04-4	Methyl Tert-Butyl Ether	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	179601-23-1	m,p-Xylene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	541-73-1	1,3-Dichlorobenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	544-10-5	1-Chlorohexane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	56-23-5	Carbon Tetrachloride	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	563-58-6	1,1-Dichloropropene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	591-78-6	2-Hexanone	µg/kg	9.9 U	9.1 U	10 U	9.1 U	10 U	11 U
8260B	594-20-7	2,2-Dichloropropane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	630-20-6	1,1,1,2-Tetrachloroethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	637-92-3	tert-Butyl ethyl ether	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	67-64-1	Acetone	µg/kg	9.9 U	12	7.9 J Z	9.1 U	19	11 U
8260B	67-66-3	Chloroform	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	71-43-2	Benzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	71-55-6	1,1,1-Trichloroethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	74-83-9	Bromomethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	74-87-3	Chloromethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	74-88-4	Methyl Iodide	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	74-95-3	Dibromomethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	74-97-5	Bromochloromethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	75-00-3	Chloroethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	75-01-4	Vinyl Chloride	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	75-09-2	Methylene Chloride	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	75-15-0	Carbon Disulfide	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	75-25-2	Bromoform	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	75-27-4	Bromodichloromethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	75-34-3	1,1-Dichloroethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	75-35-4	1,1-Dichloroethene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	75-65-0	Tertiary butyl alcohol	µg/kg	20 U	18 U	20 U	18 U	21 U	22 U
8260B	75-69-4	Trichlorofluoromethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	75-71-8	Dichlorodifluoromethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	75-88-7	2-Chloro-1,1,1-trifluoroethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	78-87-5	1,2-Dichloropropane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	78-93-3	2-Butanone (MEK)	µg/kg	9.9 U	9.1 U	10 U	9.1 U	10 U F	11 U
8260B	79-00-5	1,1,2-Trichloroethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	79-01-6	Trichloroethene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	79-34-5	1,1,2,2-Tetrachloroethane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	79-38-9	Chlorotrifluoroethylene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	87-61-6	1,2,3-Trichlorobenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	87-68-3	Hexachloro-1,3-butadiene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	95-47-6	o-Xylene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	95-49-8	2-Chlorotoluene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	95-50-1	1,2-Dichlorobenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	95-63-6	1,2,4-Trimethylbenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	96-12-8	1,2-Dibromo-3-chloropropane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	96-18-4	1,2,3-Trichloropropane	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	98-06-6	tert-Butylbenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	98-82-8	Isopropylbenzene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	994-05-8	Tertiary amyl methyl ether	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U
8260B	99-87-6	Cymene	µg/kg	5.0 U	4.5 U	5.1 U	4.6 U	5.2 U	5.5 U

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

# **Appendix B**

## **Laboratory Reports**

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

April 27, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 04/14/2012  
Group Number: 1302316  
SDG: PH001  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

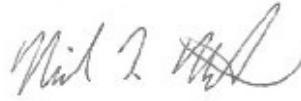
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-684-SA5C-SB-0.0-0.5 Soil	6617039
SL-685-SA5C-SB-0.0-0.5 Soil	6617040
SL-686-SA5C-SB-0.0-0.5 Soil	6617041
SL-735-SA5C-SB-0.0-0.5 Soil	6617042
SL-737-SA5C-SB-0.0-0.5 Soil	6617043
SL-683-SA5C-SB-0.0-0.5 Soil	6617044
SL-679-SA5C-SB-0.0-0.5 Soil	6617045
SL-681-SA5C-SB-0.0-0.5 Soil	6617046

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-684-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-684-SA5C-SB

LLI Sample # SW 6617039  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 13:45

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL684 SDG#: PH001-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-684-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-684-SA5C-SB

LLI Sample # SW 6617039  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 13:45

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL684 SDG#: PH001-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0503 JB	0.0263	1.19	1
11031	12378-PeCDD	40321-76-4	0.0952 JB	0.0227	5.94	1
11031	123478-HxCDD	39227-28-6	0.0916 JB	0.0360	5.94	1
11031	123678-HxCDD	57653-85-7	0.272 JB	0.0350	5.94	1
11031	123789-HxCDD	19408-74-3	0.287 JB	0.0356	5.94	1
11031	1234678-HpCDD	35822-46-9	4.90 JB	0.0302	5.94	1
11031	OCDD	3268-87-9	46.6 B	0.0253	11.9	1
11031	2378-TCDF	51207-31-9	0.0455 U	0.0455	1.19	1
11031	12378-PeCDF	57117-41-6	0.452 JB	0.0241	5.94	1
11031	23478-PeCDF	57117-31-4	0.118 JB	0.0235	5.94	1
11031	123478-HxCDF	70648-26-9	0.203 JB	0.0272	5.94	1
11031	123678-HxCDF	57117-44-9	0.128 JB	0.0266	5.94	1
11031	123789-HxCDF	72918-21-9	0.259 JB	0.0278	5.94	1
11031	234678-HxCDF	60851-34-5	0.111 JB	0.0258	5.94	1
11031	1234678-HpCDF	67562-39-4	0.993 JB	0.0130	5.94	1
11031	1234789-HpCDF	55673-89-7	0.132 JB	0.0209	5.94	1
11031	OCDF	39001-02-0	1.97 JB	0.0240	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	107	25 - 164
13C12-12378-PeCDD	115	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	115	24 - 185
13C12-23478-PeCDF	106	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	57	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-684-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-684-SA5C-SB

LLI Sample # SW 6617039  
 LLI Group # 1302316  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 13:45

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL684 SDG#: PH001-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-684-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-684-SA5C-SB

LLI Sample # SW 6617039  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 13:45

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL684 SDG#: PH001-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/26/2012 18:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401A	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-685-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-685-SA5C-SB

LLI Sample # SW 6617040  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 12:10

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

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Fairfax VA 22030

SL685 SDG#: PH001-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-685-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-685-SA5C-SB

LLI Sample # SW 6617040  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 12:10

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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Reported: 04/27/2012 15:18

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SL685 SDG#: PH001-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0395	JB	0.0271	1.11	1
11031	12378-PeCDD	40321-76-4	0.131	JB	0.0242	5.57	1
11031	123478-HxCDD	39227-28-6	0.341	JB	0.0364	5.57	1
11031	123678-HxCDD	57653-85-7	0.956	JB	0.0354	5.57	1
11031	123789-HxCDD	19408-74-3	0.530	JB	0.0401	5.57	1
11031	1234678-HpCDD	35822-46-9	17.8	B	0.0353	5.57	1
11031	OCDD	3268-87-9	160	B	0.0262	11.1	1
11031	2378-TCDF	51207-31-9	0.0889	J	0.0324	1.11	1
11031	12378-PeCDF	57117-41-6	0.336	JB	0.0225	5.57	1
11031	23478-PeCDF	57117-31-4	0.229	JB	0.0231	5.57	1
11031	123478-HxCDF	70648-26-9	0.372	JB	0.0258	5.57	1
11031	123678-HxCDF	57117-44-9	0.321	JB	0.0230	5.57	1
11031	123789-HxCDF	72918-21-9	0.236	JB	0.0275	5.57	1
11031	234678-HxCDF	60851-34-5	0.359	JB	0.0237	5.57	1
11031	1234678-HpCDF	67562-39-4	5.56	JB	0.0176	5.57	1
11031	1234789-HpCDF	55673-89-7	0.359	JB	0.0266	5.57	1
11031	OCDF	39001-02-0	7.14	JB	0.0206	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	56	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-685-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-685-SA5C-SB

LLI Sample # SW 6617040  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 12:10

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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SL685 SDG#: PH001-02

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-685-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-685-SA5C-SB

LLI Sample # SW 6617040  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 12:10

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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SL685 SDG#: PH001-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/26/2012 19:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401A	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-686-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-686-SA5C-SB

LLI Sample # SW 6617041  
 LLI Group # 1302316  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 11:40

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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Reported: 04/27/2012 15:18

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SL686 SDG#: PH001-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-686-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-686-SA5C-SB

LLI Sample # SW 6617041  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 11:40

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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Reported: 04/27/2012 15:18

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SL686 SDG#: PH001-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>						
11031	2378-TCDD	1746-01-6	0.0319	JB 0.0241	1.10	1
11031	12378-PeCDD	40321-76-4	0.221	JB 0.0244	5.51	1
11031	123478-HxCDD	39227-28-6	0.331	JB 0.0328	5.51	1
11031	123678-HxCDD	57653-85-7	1.90	JB 0.0339	5.51	1
11031	123789-HxCDD	19408-74-3	0.837	JB 0.0361	5.51	1
11031	1234678-HpCDD	35822-46-9	61.2	B 0.0731	5.51	1
11031	OCDD	3268-87-9	1.040	B 0.0417	11.0	1
11031	2378-TCDF	51207-31-9	0.123	J 0.0522	1.10	1
11031	12378-PeCDF	57117-41-6	1.04	JB 0.0310	5.51	1
11031	23478-PeCDF	57117-31-4	0.592	JB 0.0319	5.51	1
11031	123478-HxCDF	70648-26-9	0.615	JB 0.0275	5.51	1
11031	123678-HxCDF	57117-44-9	0.550	JB 0.0246	5.51	1
11031	123789-HxCDF	72918-21-9	0.285	JB 0.0291	5.51	1
11031	234678-HxCDF	60851-34-5	0.713	JB 0.0244	5.51	1
11031	1234678-HpCDF	67562-39-4	7.14	B 0.0234	5.51	1
11031	1234789-HpCDF	55673-89-7	1.04	JB 0.0361	5.51	1
11031	OCDF	39001-02-0	15.3	B 0.0229	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	103	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	56	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-686-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-686-SA5C-SB

**LLI Sample #** SW 6617041  
**LLI Group #** 1302316  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 11:40

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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Reported: 04/27/2012 15:18

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SL686 SDG#: PH001-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-686-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-686-SA5C-SB

LLI Sample # SW 6617041  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 11:40

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

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Fairfax VA 22030

SL686 SDG#: PH001-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/26/2012 20:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401A	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-735-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-735-SA5C-SB

LLI Sample # SW 6617042  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 10:00

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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Reported: 04/27/2012 15:18

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SL735 SDG#: PH001-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-735-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-735-SA5C-SB

LLI Sample # SW 6617042  
LLI Group # 1302316  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/12/2012 10:00

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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Reported: 04/27/2012 15:18

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SL735 SDG#: PH001-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0248 U	0.0248	1.09	1
11031	12378-PeCDD	40321-76-4	0.0663 JB	0.0236	5.45	1
11031	123478-HxCDD	39227-28-6	0.152 JBQ	0.0362	5.45	1
11031	123678-HxCDD	57653-85-7	0.545 JB	0.0326	5.45	1
11031	123789-HxCDD	19408-74-3	0.284 JB	0.0342	5.45	1
11031	1234678-HpCDD	35822-46-9	11.9 B	0.0432	5.45	1
11031	OCDD	3268-87-9	134 B	0.0266	10.9	1
11031	2378-TCDF	51207-31-9	0.0354 J	0.0258	1.09	1
11031	12378-PeCDF	57117-41-6	0.668 JB	0.0211	5.45	1
11031	23478-PeCDF	57117-31-4	0.0684 JB	0.0199	5.45	1
11031	123478-HxCDF	70648-26-9	0.207 JB	0.0265	5.45	1
11031	123678-HxCDF	57117-44-9	0.145 JB	0.0256	5.45	1
11031	123789-HxCDF	72918-21-9	0.152 JB	0.0264	5.45	1
11031	234678-HxCDF	60851-34-5	0.225 JB	0.0247	5.45	1
11031	1234678-HpCDF	67562-39-4	2.00 JB	0.0181	5.45	1
11031	1234789-HpCDF	55673-89-7	0.174 JB	0.0243	5.45	1
11031	OCDF	39001-02-0	3.43 JB	0.0188	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	101	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-735-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-735-SA5C-SB

LLI Sample # SW 6617042  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 10:00

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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Reported: 04/27/2012 15:18

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SL735 SDG#: PH001-04

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-735-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-735-SA5C-SB

LLI Sample # SW 6617042  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 10:00

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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Reported: 04/27/2012 15:18

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SL735 SDG#: PH001-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/26/2012 20:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401A	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-737-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-737-SA5C-SB

LLI Sample # SW 6617043  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 10:45

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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Reported: 04/27/2012 15:18

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SL737 SDG#: PH001-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-737-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-737-SA5C-SB

LLI Sample # SW 6617043  
LLI Group # 1302316  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/12/2012 10:45

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

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Reported: 04/27/2012 15:18

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Fairfax VA 22030

SL737 SDG#: PH001-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0567 JB	0.0309	1.07	1
11031	12378-PeCDD	40321-76-4	0.138 JBQ	0.0347	5.37	1
11031	123478-HxCDD	39227-28-6	0.267 JB	0.0485	5.37	1
11031	123678-HxCDD	57653-85-7	0.831 JB	0.0460	5.37	1
11031	123789-HxCDD	19408-74-3	0.463 JB	0.0478	5.37	1
11031	1234678-HpCDD	35822-46-9	21.0 B	0.0504	5.37	1
11031	OCDD	3268-87-9	234 B	0.0354	10.7	1
11031	2378-TCDF	51207-31-9	0.0591 JQ	0.0421	1.07	1
11031	12378-PeCDF	57117-41-6	0.248 JB	0.0252	5.37	1
11031	23478-PeCDF	57117-31-4	0.168 JB	0.0236	5.37	1
11031	123478-HxCDF	70648-26-9	0.344 JB	0.0343	5.37	1
11031	123678-HxCDF	57117-44-9	0.209 JB	0.0325	5.37	1
11031	123789-HxCDF	72918-21-9	0.0516 JB	0.0361	5.37	1
11031	234678-HxCDF	60851-34-5	0.282 JB	0.0335	5.37	1
11031	1234678-HpCDF	67562-39-4	3.42 JB	0.0251	5.37	1
11031	1234789-HpCDF	55673-89-7	0.295 JB	0.0345	5.37	1
11031	OCDF	39001-02-0	7.86 JB	0.0298	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	103	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	68	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-737-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-737-SA5C-SB

LLI Sample # SW 6617043  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 10:45

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL737 SDG#: PH001-05

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-737-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-737-SA5C-SB

LLI Sample # SW 6617043  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 10:45

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL737 SDG#: PH001-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/26/2012 21:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401A	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-683-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-683-SA5C-SB

LLI Sample # SW 6617044  
 LLI Group # 1302316  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 14:10

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL683 SDG#: PH001-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-683-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-683-SA5C-SB

LLI Sample # SW 6617044  
LLI Group # 1302316  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/12/2012 14:10

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL683 SDG#: PH001-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			<b>ng/kg</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.112	JB	0.0298	1.12	1
11031	12378-PeCDD	40321-76-4	0.437	JB	0.0344	5.60	1
11031	123478-HxCDD	39227-28-6	0.960	JB	0.0516	5.60	1
11031	123678-HxCDD	57653-85-7	2.84	JB	0.0520	5.60	1
11031	123789-HxCDD	19408-74-3	1.30	JB	0.0510	5.60	1
11031	1234678-HpCDD	35822-46-9	58.1	B	0.0649	5.60	1
11031	OCDD	3268-87-9	473	B	0.0324	11.2	1
11031	2378-TCDF	51207-31-9	0.408	J	0.0998	1.12	1
11031	12378-PeCDF	57117-41-6	1.13	JB	0.0457	5.60	1
11031	23478-PeCDF	57117-31-4	0.598	JB	0.0438	5.60	1
11031	123478-HxCDF	70648-26-9	1.20	JB	0.0463	5.60	1
11031	123678-HxCDF	57117-44-9	0.802	JB	0.0423	5.60	1
11031	123789-HxCDF	72918-21-9	0.318	JB	0.0492	5.60	1
11031	234678-HxCDF	60851-34-5	0.968	JB	0.0443	5.60	1
11031	1234678-HpCDF	67562-39-4	10.0	B	0.0293	5.60	1
11031	1234789-HpCDF	55673-89-7	0.969	JB	0.0451	5.60	1
11031	OCDF	39001-02-0	16.3	B	0.0297	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	104	25 - 164
13C12-12378-PeCDD	129	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	103	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	125	24 - 185
13C12-23478-PeCDF	116	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	67	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-683-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-683-SA5C-SB

LLI Sample # SW 6617044  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 14:10

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL683 SDG#: PH001-06

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-683-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-683-SA5C-SB

LLI Sample # SW 6617044  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 14:10

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL683 SDG#: PH001-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/26/2012 22:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401A	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-679-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-679-SA5C-SB

LLI Sample # SW 6617045  
 LLI Group # 1302316  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 15:07

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL679 SDG#: PH001-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-679-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-679-SA5C-SB

LLI Sample # SW 6617045  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 15:07

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL679 SDG#: PH001-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			<b>ng/kg</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.163	JB	0.0369	1.10	1
11031	12378-PeCDD	40321-76-4	0.706	JB	0.0401	5.51	1
11031	123478-HxCDD	39227-28-6	1.10	JB	0.0443	5.51	1
11031	123678-HxCDD	57653-85-7	2.66	JB	0.0401	5.51	1
11031	123789-HxCDD	19408-74-3	1.93	JB	0.0429	5.51	1
11031	1234678-HpCDD	35822-46-9	82.9	B	0.0717	5.51	1
11031	OCDD	3268-87-9	834	B	0.0524	11.0	1
11031	2378-TCDF	51207-31-9	0.231	J	0.0460	1.10	1
11031	12378-PeCDF	57117-41-6	0.894	JB	0.0337	5.51	1
11031	23478-PeCDF	57117-31-4	0.547	JB	0.0342	5.51	1
11031	123478-HxCDF	70648-26-9	0.892	JB	0.0368	5.51	1
11031	123678-HxCDF	57117-44-9	0.636	JB	0.0335	5.51	1
11031	123789-HxCDF	72918-21-9	0.343	JB	0.0385	5.51	1
11031	234678-HxCDF	60851-34-5	0.716	JB	0.0343	5.51	1
11031	1234678-HpCDF	67562-39-4	11.6	B	0.0319	5.51	1
11031	1234789-HpCDF	55673-89-7	1.09	JB	0.0483	5.51	1
11031	OCDF	39001-02-0	36.1	B	0.0278	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	98	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	62	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-679-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-679-SA5C-SB

LLI Sample # SW 6617045  
 LLI Group # 1302316  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 15:07

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL679 SDG#: PH001-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-679-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-679-SA5C-SB

LLI Sample # SW 6617045  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 15:07

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL679 SDG#: PH001-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/26/2012 23:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401A	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-681-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-681-SA5C-SB

LLI Sample # SW 6617046  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 14:35

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL681 SDG#: PH001-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-681-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-681-SA5C-SB

LLI Sample # SW 6617046  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 14:35

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL681 SDG#: PH001-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0791	JB	0.0265	1.11	1
11031	12378-PeCDD	40321-76-4	0.139	JB	0.0289	5.53	1
11031	123478-HxCDD	39227-28-6	2.02	JB	0.0489	5.53	1
11031	123678-HxCDD	57653-85-7	3.04	JB	0.0509	5.53	1
11031	123789-HxCDD	19408-74-3	1.08	JB	0.0476	5.53	1
11031	1234678-HpCDD	35822-46-9	33.3	B	0.0602	5.53	1
11031	OCDD	3268-87-9	139	B	0.0260	11.1	1
11031	2378-TCDF	51207-31-9	0.138	JQ	0.0568	1.11	1
11031	12378-PeCDF	57117-41-6	0.714	JB	0.0309	5.53	1
11031	23478-PeCDF	57117-31-4	0.380	JB	0.0294	5.53	1
11031	123478-HxCDF	70648-26-9	0.413	JB	0.0365	5.53	1
11031	123678-HxCDF	57117-44-9	0.387	JB	0.0343	5.53	1
11031	123789-HxCDF	72918-21-9	0.232	JB	0.0339	5.53	1
11031	234678-HxCDF	60851-34-5	0.544	JB	0.0322	5.53	1
11031	1234678-HpCDF	67562-39-4	21.2	B	0.0327	5.53	1
11031	1234789-HpCDF	55673-89-7	0.523	JB	0.0441	5.53	1
11031	OCDF	39001-02-0	18.7	B	0.0250	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	107	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	107	24 - 185
13C12-23478-PeCDF	101	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	58	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-681-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-681-SA5C-SB

LLI Sample # SW 6617046  
 LLI Group # 1302316  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 14:35

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL681 SDG#: PH001-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-681-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-681-SA5C-SB

LLI Sample # SW 6617046  
LLI Group # 1302316  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/12/2012 14:35

CDM Federal Programs Corp.

Submitted: 04/14/2012 10:00

3201 Jermantown Road

Reported: 04/27/2012 15:18

Suite 400

Fairfax VA 22030

SL681 SDG#: PH001-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 03:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401A	04/24/2012 12:21	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 04/27/12 at 03:18 PM

Group Number: 1302316

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12115162401A Moisture Content by 160.3	Sample number(s): 6617039-6617046				100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12116001	Sample number(s): 6617039-6617046								
2378-TCDD	0.0739 J	0.0350	1.00	ng/kg	105		67-158		
12378-PeCDD	0.0530 J	0.0184	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0333 J	0.0142	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0480 J	0.0158	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0509 J	0.0149	5.00	ng/kg	97		64-162		
1234678-HpCDD	0.329 J	0.0200	5.00	ng/kg	96		70-140		
OCDD	0.967 J	0.0197	10.0	ng/kg	90		78-144		
2378-TCDF	0.0256 U	0.0256	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0529 J	0.0165	5.00	ng/kg	92		80-134		
23478-PeCDF	0.103 J	0.0139	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0459 J	0.0122	5.00	ng/kg	95		72-134		
123678-HxCDF	0.0498 J	0.0107	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0309 J	0.0125	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0816 J	0.0113	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.135 J	0.00910	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0657 J	0.0144	5.00	ng/kg	92		78-138		
OCDF	0.161 J	0.0185	10.0	ng/kg	94		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12115162401A Moisture Content by 160.3	Sample number(s): 6617039-6617046					BKG: P622564 13.2	12.6	4	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 04/27/12 at 03:18 PM

Group Number: 1302316

### Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B  
Batch number: 12116001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6617039	107	106	72	74	71	71
6617040	74	73	68	74	70	66
6617041	93	90	65	71	67	62
6617042	80	85	75	77	75	76
6617043	85	84	76	78	77	77
6617044	104	116	82	86	83	78
6617045	78	85	72	78	73	70
6617046	84	101	73	75	73	78
Blank	68	95	65	73	68	65
OPR	69	73	66	73	68	61

Limits: 25-164      21-178      26-152      26-123      28-136      29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6617039	88	61	57	115	81	85
6617040	86	62	56	80	90	94
6617041	83	59	56	103	87	90
6617042	86	69	63	88	88	101
6617043	89	71	68	92	90	103
6617044	100	74	67	129	95	103
6617045	92	65	62	93	86	98
6617046	79	65	58	107	79	78
Blank	87	61	55	105	80	77
OPR	87	61	55	82	80	76

Limits: 28-143      26-138      17-157      25-181      32-141      28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6617039	81	80	76	73	115
6617040	83	80	73	69	79
6617041	79	76	72	80	102
6617042	93	81	75	77	86
6617043	91	86	83	69	90
6617044	96	93	85	84	125
6617045	86	83	79	83	92
6617046	80	76	69	75	107
Blank	78	78	73	62	85
OPR	78	78	75	65	80

Limits: 28-130      23-140      17-157      24-169      24-185

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct#

Cap# 1302316 Sample# 6617039-46  
**SSFL Phase 3 Chain of Custody**

CDM Smith

No:

20120413-01

Date Shipped: 4/13/2012

Contact Name: Pam Hartman

Cozier #:

Carrier Name: FedEx

Contact Phone: (818)466-8007

Lab:

Lancaster Laboratories, Inc.

Airbill No: 7982 8308 6668

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetic 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex C. 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm. 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes			
SL-684-SA5C-SB-0.0-0.5	4/12/2012 13:45	SO	None	1 - SS-Sleeve	10 day																																			
SL-685-SA5C-SB-0.0-0.5	4/12/2012 12:10	SO	None	1 - SS-Sleeve	10 day	X																																		
SL-686-SA5C-SB-0.0-0.5	4/12/2012 11:40	SO	None	1 - SS-Sleeve	10 day	X																																		
SL-735-SA5C-SB-0.0-0.5	4/12/2012 10:00	SO	None	1 - SS-Sleeve	10 day	X																																		
SL-737-SA5C-SB-0.0-0.5	4/12/2012 10:45	SO	None	1 - SS-Sleeve	10 day	X																																		
SL-683-SA5C-SB-0.0-0.5	4/12/2012 14:10	SO	None	1 - SS-Sleeve	10 day	X																																		
SL-679-SA5C-SB-0.0-0.5	4/12/2012 15:07	SO	None	1 - SS-Sleeve	10 day	X																																		
SL-681-SA5C-SB-0.0-0.5	4/12/2012 14:35	SO	None	1 - SS-Sleeve	10 day	X																																		

Special Instructions:

**SAMPLES TRANSFERRED FROM  
 CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	4/13/12									
									<i>[Signature]</i>	4/14/12	(KSC)

*[Signature]*  
*[Signature]*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

April 30, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 04/18/2012

Group Number: 1303085

SDG: PH001

PO Number: 1203-004-009-AL

Release Number: TRACKING #12571

State of Sample Origin: CA

Client Sample Description

SL-691-SA5C-SB-0.0-0.5 Soil

SL-690-SA5C-SB-0.0-0.5 Soil

SL-689-SA5C-SB-0.0-0.5 Soil

SL-688-SA5C-SB-0.0-0.5 Soil

SL-687-SA5C-SB-0.0-0.5 Soil

SL-692-SA5C-SB-0.0-0.5 Soil

SL-693-SA5C-SB-0.0-0.5 Soil

SL-514-SA5C-SB-0.0-0.5 Soil

SL-514-SA5C-SB-0.0-0.5 MS Soil

SL-514-SA5C-SB-0.0-0.5 MSD Soil

SL-814-SA5C-SB-0.0-0.5 Soil

SL-578-SA5C-SB-0.0-0.5 Soil

SL-680-SA5C-SB-0.0-0.5 Soil

Lancaster Labs (LLI) #

6620861

6620862

6620863

6620864

6620865

6620866

6620867

6620868

6620869

6620870

6620871

6620872

6620873

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program

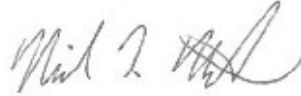
ELECTRONIC COPY TO

ELECTRONIC COPY TO Data Package Group

ELECTRONIC COPY TO

Attn: Todd Burgesser

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-691-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-691-SA5C-SB

LLI Sample # SW 6620861  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 11:35

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

3201 Jermantown Road

Reported: 04/30/2012 19:49

Suite 400

Fairfax VA 22030

SL691 SDG#: PH001-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	9.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-691-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-691-SA5C-SB

LLI Sample # SW 6620861  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 11:35

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

3201 Jermantown Road

Reported: 04/30/2012 19:49

Suite 400

Fairfax VA 22030

SL691 SDG#: PH001-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0336	U	0.0336	1.11	1
11031	12378-PeCDD	40321-76-4	0.0638	JB	0.0237	5.53	1
11031	123478-HxCDD	39227-28-6	0.0896	JB	0.0322	5.53	1
11031	123678-HxCDD	57653-85-7	0.320	JBQ	0.0324	5.53	1
11031	123789-HxCDD	19408-74-3	0.240	JB	0.0335	5.53	1
11031	1234678-HpCDD	35822-46-9	9.50	B	0.0295	5.53	1
11031	OCDD	3268-87-9	89.1	B	0.0235	11.1	1
11031	2378-TCDF	51207-31-9	0.0316	U	0.0316	1.11	1
11031	12378-PeCDF	57117-41-6	0.132	JB	0.0166	5.53	1
11031	23478-PeCDF	57117-31-4	0.144	JB	0.0163	5.53	1
11031	123478-HxCDF	70648-26-9	0.136	JB	0.0251	5.53	1
11031	123678-HxCDF	57117-44-9	0.111	JB	0.0223	5.53	1
11031	123789-HxCDF	72918-21-9	0.184	JB	0.0284	5.53	1
11031	234678-HxCDF	60851-34-5	0.120	JB	0.0236	5.53	1
11031	1234678-HpCDF	67562-39-4	0.950	JB	0.0144	5.53	1
11031	1234789-HpCDF	55673-89-7	0.197	JB	0.0266	5.53	1
11031	OCDF	39001-02-0	1.49	JB	0.0254	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	62	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	49	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-691-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-691-SA5C-SB

LLI Sample # SW 6620861  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 11:35

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

3201 Jermantown Road

Reported: 04/30/2012 19:49

Suite 400

Fairfax VA 22030

SL691 SDG#: PH001-09

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-691-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-691-SA5C-SB

LLI Sample # SW 6620861  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 11:35

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

3201 Jermantown Road

Reported: 04/30/2012 19:49

Suite 400

Fairfax VA 22030

SL691 SDG#: PH001-09

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 04:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-690-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-690-SA5C-SB

LLI Sample # SW 6620862  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 11:05

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

3201 Jermantown Road

Reported: 04/30/2012 19:49

Suite 400

Fairfax VA 22030

SL690 SDG#: PH001-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-690-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-690-SA5C-SB

LLI Sample # SW 6620862  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 11:05

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

3201 Jermantown Road

Reported: 04/30/2012 19:49

Suite 400

Fairfax VA 22030

SL690 SDG#: PH001-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.173	JB	0.0269	1.14	1
11031	12378-PeCDD	40321-76-4	0.550	JB	0.0403	5.69	1
11031	123478-HxCDD	39227-28-6	0.899	JB	0.0343	5.69	1
11031	123678-HxCDD	57653-85-7	2.90	JB	0.0357	5.69	1
11031	123789-HxCDD	19408-74-3	1.82	JB	0.0339	5.69	1
11031	1234678-HpCDD	35822-46-9	80.3	B	0.0578	5.69	1
11031	OCDD	3268-87-9	750	B	0.0372	11.4	1
11031	2378-TCDF	51207-31-9	0.338	J	0.0513	1.14	1
11031	12378-PeCDF	57117-41-6	0.590	JB	0.0317	5.69	1
11031	23478-PeCDF	57117-31-4	1.05	JB	0.0295	5.69	1
11031	123478-HxCDF	70648-26-9	0.878	JB	0.0221	5.69	1
11031	123678-HxCDF	57117-44-9	0.775	JB	0.0221	5.69	1
11031	123789-HxCDF	72918-21-9	0.720	JB	0.0225	5.69	1
11031	234678-HxCDF	60851-34-5	0.999	JB	0.0212	5.69	1
11031	1234678-HpCDF	67562-39-4	9.56	B	0.0372	5.69	1
11031	1234789-HpCDF	55673-89-7	0.985	JBQ	0.0432	5.69	1
11031	OCDF	39001-02-0	14.9	B	0.0203	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	60	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-690-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-690-SA5C-SB

LLI Sample # SW 6620862  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 11:05

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

3201 Jermantown Road

Reported: 04/30/2012 19:49

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SL690 SDG#: PH001-10

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-690-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-690-SA5C-SB

LLI Sample # SW 6620862  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 11:05

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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Fairfax VA 22030

SL690 SDG#: PH001-10

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 19:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-689-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-689-SA5C-SB

LLI Sample # SW 6620863  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 10:40

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

3201 Jermantown Road

Reported: 04/30/2012 19:49

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SL689 SDG#: PH001-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	17.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-689-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-689-SA5C-SB

LLI Sample # SW 6620863  
LLI Group # 1303085  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/16/2012 10:40

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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SL689 SDG#: PH001-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0477 JBQ	0.0306	1.21	1
11031	12378-PeCDD	40321-76-4	0.0886 JB	0.0203	6.04	1
11031	123478-HxCDD	39227-28-6	0.0893 JB	0.0343	6.04	1
11031	123678-HxCDD	57653-85-7	0.318 JB	0.0353	6.04	1
11031	123789-HxCDD	19408-74-3	0.323 JB	0.0346	6.04	1
11031	1234678-HpCDD	35822-46-9	5.93 JB	0.0323	6.04	1
11031	OCDD	3268-87-9	58.0 B	0.0274	12.1	1
11031	2378-TCDF	51207-31-9	0.0318 U	0.0318	1.21	1
11031	12378-PeCDF	57117-41-6	0.193 JB	0.0170	6.04	1
11031	23478-PeCDF	57117-31-4	0.0781 JB	0.0169	6.04	1
11031	123478-HxCDF	70648-26-9	0.133 JB	0.0241	6.04	1
11031	123678-HxCDF	57117-44-9	0.0972 JB	0.0214	6.04	1
11031	123789-HxCDF	72918-21-9	0.192 JB	0.0259	6.04	1
11031	234678-HxCDF	60851-34-5	0.110 JB	0.0244	6.04	1
11031	1234678-HpCDF	67562-39-4	0.878 JB	0.0144	6.04	1
11031	1234789-HpCDF	55673-89-7	0.127 JB	0.0245	6.04	1
11031	OCDF	39001-02-0	2.12 JB	0.0224	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	108	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	112	24 - 185
13C12-23478-PeCDF	100	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	55	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-689-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-689-SA5C-SB

LLI Sample # SW 6620863  
 LLI Group # 1303085  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 10:40

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SL689 SDG#: PH001-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-689-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-689-SA5C-SB

LLI Sample # SW 6620863  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 10:40

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

Suite 400

Fairfax VA 22030

SL689 SDG#: PH001-11

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 06:36	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-688-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-688-SA5C-SB

LLI Sample # SW 6620864  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 09:40

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Submitted: 04/18/2012 09:40

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SL688 SDG#: PH001-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-688-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-688-SA5C-SB

LLI Sample # SW 6620864  
LLI Group # 1303085  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/16/2012 09:40

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL688 SDG#: PH001-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>		
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>		
11031	2378-TCDD	1746-01-6	0.0785	JB	0.0315	1.12	1
11031	12378-PeCDD	40321-76-4	0.260	JB	0.0372	5.58	1
11031	123478-HxCDD	39227-28-6	0.396	JB	0.0401	5.58	1
11031	123678-HxCDD	57653-85-7	1.20	JB	0.0355	5.58	1
11031	123789-HxCDD	19408-74-3	0.845	JB	0.0347	5.58	1
11031	1234678-HpCDD	35822-46-9	31.1	B	0.0511	5.58	1
11031	OCDD	3268-87-9	312	B	0.0384	11.2	1
11031	2378-TCDF	51207-31-9	0.328	J	0.0687	1.12	1
11031	12378-PeCDF	57117-41-6	0.725	JB	0.0477	5.58	1
11031	23478-PeCDF	57117-31-4	0.997	JB	0.0449	5.58	1
11031	123478-HxCDF	70648-26-9	1.02	JB	0.0365	5.58	1
11031	123678-HxCDF	57117-44-9	0.604	JB	0.0349	5.58	1
11031	123789-HxCDF	72918-21-9	0.235	JB	0.0337	5.58	1
11031	234678-HxCDF	60851-34-5	0.834	JB	0.0345	5.58	1
11031	1234678-HpCDF	67562-39-4	4.90	JB	0.0261	5.58	1
11031	1234789-HpCDF	55673-89-7	0.456	JB	0.0335	5.58	1
11031	OCDF	39001-02-0	11.5	B	0.0212	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	101	28 - 130
13C12-123789-HxCDD	101	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	70	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-688-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-688-SA5C-SB

LLI Sample # SW 6620864  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 09:40

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Submitted: 04/18/2012 09:40

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SL688 SDG#: PH001-12

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-688-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-688-SA5C-SB

LLI Sample # SW 6620864  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 09:40

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL688 SDG#: PH001-12

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 07:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-687-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-687-SA5C-SB

LLI Sample # SW 6620865  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 10:10

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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SL687 SDG#: PH001-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-687-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-687-SA5C-SB

LLI Sample # SW 6620865  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 10:10

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Submitted: 04/18/2012 09:40

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SL687 SDG#: PH001-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0558	JB	0.0289	1.18	1
11031	12378-PeCDD	40321-76-4	0.113	JB	0.0255	5.92	1
11031	123478-HxCDD	39227-28-6	0.138	JB	0.0404	5.92	1
11031	123678-HxCDD	57653-85-7	0.628	JB	0.0368	5.92	1
11031	123789-HxCDD	19408-74-3	0.357	JB	0.0371	5.92	1
11031	1234678-HpCDD	35822-46-9	16.5	B	0.0555	5.92	1
11031	OCDD	3268-87-9	169	B	0.0367	11.8	1
11031	2378-TCDF	51207-31-9	0.0475	J	0.0352	1.18	1
11031	12378-PeCDF	57117-41-6	0.178	JB	0.0206	5.92	1
11031	23478-PeCDF	57117-31-4	0.107	JB	0.0199	5.92	1
11031	123478-HxCDF	70648-26-9	0.199	JB	0.0297	5.92	1
11031	123678-HxCDF	57117-44-9	0.141	JB	0.0263	5.92	1
11031	123789-HxCDF	72918-21-9	0.236	JB	0.0299	5.92	1
11031	234678-HxCDF	60851-34-5	0.204	JB	0.0267	5.92	1
11031	1234678-HpCDF	67562-39-4	2.81	JB	0.0291	5.92	1
11031	1234789-HpCDF	55673-89-7	0.222	JB	0.0403	5.92	1
11031	OCDF	39001-02-0	8.92	JB	0.0259	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	95	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	65	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-687-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-687-SA5C-SB

LLI Sample # SW 6620865  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 10:10

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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SL687 SDG#: PH001-13

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-687-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-687-SA5C-SB

LLI Sample # SW 6620865  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 10:10

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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Fairfax VA 22030

SL687 SDG#: PH001-13

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 08:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-692-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-692-SA5C-SB

LLI Sample # SW 6620866  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 13:05

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

3201 Jermantown Road

Reported: 04/30/2012 19:49

Suite 400

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SL692 SDG#: PH001-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	17.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-692-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-692-SA5C-SB

LLI Sample # SW 6620866  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 13:05

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL692 SDG#: PH001-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0497 JBQ	0.0349	1.20	1
11031	12378-PeCDD	40321-76-4	0.0786 JBQ	0.0253	6.02	1
11031	123478-HxCDD	39227-28-6	0.0230 U	0.0230	6.02	1
11031	123678-HxCDD	57653-85-7	0.160 JB	0.0231	6.02	1
11031	123789-HxCDD	19408-74-3	0.233 JBQ	0.0237	6.02	1
11031	1234678-HpCDD	35822-46-9	1.05 JB	0.0306	6.02	1
11031	OCDD	3268-87-9	8.09 JB	0.0306	12.0	1
11031	2378-TCDF	51207-31-9	0.0317 U	0.0317	1.20	1
11031	12378-PeCDF	57117-41-6	0.103 JB	0.0193	6.02	1
11031	23478-PeCDF	57117-31-4	0.0770 JBQ	0.0198	6.02	1
11031	123478-HxCDF	70648-26-9	0.0874 JBQ	0.0187	6.02	1
11031	123678-HxCDF	57117-44-9	0.0565 JBQ	0.0152	6.02	1
11031	123789-HxCDF	72918-21-9	0.217 JB	0.0223	6.02	1
11031	234678-HxCDF	60851-34-5	0.0560 JB	0.0178	6.02	1
11031	1234678-HpCDF	67562-39-4	0.196 JB	0.0130	6.02	1
11031	1234789-HpCDF	55673-89-7	0.0798 JB	0.0273	6.02	1
11031	OCDF	39001-02-0	0.346 JB	0.0363	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-12378-PeCDD	100	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	42	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-692-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-692-SA5C-SB

LLI Sample # SW 6620866  
 LLI Group # 1303085  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 13:05

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SL692 SDG#: PH001-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-692-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-692-SA5C-SB

LLI Sample # SW 6620866  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 13:05

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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SL692 SDG#: PH001-14

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 09:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-693-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-693-SA5C-SB

LLI Sample # SW 6620867  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 13:30

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Submitted: 04/18/2012 09:40

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SL693 SDG#: PH001-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	18.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-693-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-693-SA5C-SB

LLI Sample # SW 6620867  
LLI Group # 1303085  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/16/2012 13:30

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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SL693 SDG#: PH001-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0522 JBQ	0.0333	1.22	1
11031	12378-PeCDD	40321-76-4	0.111 JBQ	0.0233	6.09	1
11031	123478-HxCDD	39227-28-6	0.0397 JBQ	0.0217	6.09	1
11031	123678-HxCDD	57653-85-7	0.147 JBQ	0.0216	6.09	1
11031	123789-HxCDD	19408-74-3	0.214 JBQ	0.0216	6.09	1
11031	1234678-HpCDD	35822-46-9	1.65 JB	0.0254	6.09	1
11031	OCDD	3268-87-9	15.6 B	0.0211	12.2	1
11031	2378-TCDF	51207-31-9	0.0447 JQ	0.0325	1.22	1
11031	12378-PeCDF	57117-41-6	0.135 JB	0.0156	6.09	1
11031	23478-PeCDF	57117-31-4	0.147 JB	0.0166	6.09	1
11031	123478-HxCDF	70648-26-9	0.119 JB	0.0197	6.09	1
11031	123678-HxCDF	57117-44-9	0.0934 JB	0.0164	6.09	1
11031	123789-HxCDF	72918-21-9	0.166 JB	0.0234	6.09	1
11031	234678-HxCDF	60851-34-5	0.0972 JB	0.0188	6.09	1
11031	1234678-HpCDF	67562-39-4	0.272 JB	0.0125	6.09	1
11031	1234789-HpCDF	55673-89-7	0.0773 JB	0.0274	6.09	1
11031	OCDF	39001-02-0	0.500 JB	0.0315	12.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	96	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	108	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	45	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-693-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-693-SA5C-SB

LLI Sample # SW 6620867  
 LLI Group # 1303085  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 13:30

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Submitted: 04/18/2012 09:40

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SL693 SDG#: PH001-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-693-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-693-SA5C-SB

LLI Sample # SW 6620867  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/16/2012 13:30

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL693 SDG#: PH001-15

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 10:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-514-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6620868  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:15

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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SL514 SDG#: PH001-16BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-514-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6620868  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:15

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL514 SDG#: PH001-16BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0875 JBQ	0.0344	1.19	1
11031	12378-PeCDD	40321-76-4	0.495 JB	0.0518	5.93	1
11031	123478-HxCDD	39227-28-6	0.661 JB	0.0346	5.93	1
11031	123678-HxCDD	57653-85-7	2.45 JB	0.0319	5.93	1
11031	123789-HxCDD	19408-74-3	1.96 JB	0.0348	5.93	1
11031	1234678-HpCDD	35822-46-9	48.3 B	0.0530	5.93	1
11031	OCDD	3268-87-9	570 B	0.0390	11.9	1
11031	2378-TCDF	51207-31-9	0.313 J	0.0772	1.19	1
11031	12378-PeCDF	57117-41-6	0.908 JB	0.0405	5.93	1
11031	23478-PeCDF	57117-31-4	0.450 JBQ	0.0392	5.93	1
11031	123478-HxCDF	70648-26-9	0.605 JB	0.0323	5.93	1
11031	123678-HxCDF	57117-44-9	0.487 JB	0.0298	5.93	1
11031	123789-HxCDF	72918-21-9	0.737 JB	0.0354	5.93	1
11031	234678-HxCDF	60851-34-5	0.513 JB	0.0308	5.93	1
11031	1234678-HpCDF	67562-39-4	6.59 B	0.0267	5.93	1
11031	1234789-HpCDF	55673-89-7	0.569 JB	0.0410	5.93	1
11031	OCDF	39001-02-0	18.2 B	0.0229	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	106	25 - 164
13C12-12378-PeCDD	112	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	107	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	112	24 - 185
13C12-23478-PeCDF	103	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	63	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-514-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6620868  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:15

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL514 SDG#: PH001-16BKG

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-514-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6620868  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:15

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Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL514 SDG#: PH001-16BKG

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 11:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-514-SA5C-SB-0.0-0.5 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-514-SA5C-SB

LLI Sample # SW 6620869  
 LLI Group # 1303085  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:15

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Submitted: 04/18/2012 09:40

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SL514 SDG#: PH001-16MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

\*=This limit was used in the evaluation of the final result

Sample Description: SL-514-SA5C-SB-0.0-0.5 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6620869  
LLI Group # 1303085  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/17/2012 10:15

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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SL514 SDG#: PH001-16MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	24.2	B	0.0333	1.19	1
11031	12378-PeCDD	40321-76-4	116	B	0.0431	5.93	1
11031	123478-HxCDD	39227-28-6	109	B	0.0324	5.93	1
11031	123678-HxCDD	57653-85-7	114	B	0.0297	5.93	1
11031	123789-HxCDD	19408-74-3	118	B	0.0281	5.93	1
11031	1234678-HpCDD	35822-46-9	154	B	0.0627	5.93	1
11031	OCDD	3268-87-9	699	B	0.0349	11.9	1
11031	2378-TCDF	51207-31-9	21.8		0.0600	1.19	1
11031	12378-PeCDF	57117-41-6	113	B	0.0404	5.93	1
11031	23478-PeCDF	57117-31-4	110	B	0.0391	5.93	1
11031	123478-HxCDF	70648-26-9	116	B	0.0512	5.93	1
11031	123678-HxCDF	57117-44-9	115	B	0.0481	5.93	1
11031	123789-HxCDF	72918-21-9	116	B	0.0498	5.93	1
11031	234678-HxCDF	60851-34-5	111	B	0.0470	5.93	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0330	5.93	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0454	5.93	1
11031	OCDF	39001-02-0	237	B	0.0299	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	104	28 - 130
13C12-123789-HxCDD	104	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	71	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-514-SA5C-SB-0.0-0.5 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-514-SA5C-SB

LLI Sample # SW 6620869  
 LLI Group # 1303085  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:15

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL514 SDG#: PH001-16MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-514-SA5C-SB-0.0-0.5 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6620869  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:15

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

Suite 400

Fairfax VA 22030

SL514 SDG#: PH001-16MS

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 12:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-514-SA5C-SB-0.0-0.5 MSD Soil  
 SSFL Phase 3 Soil Sampling  
 SL-514-SA5C-SB

LLI Sample # SW 6620870  
 LLI Group # 1303085  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:15

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Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL514 SDG#: PH001-16MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11626	28a Moisture Content by 160.3	n.a.	15.3	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1

\*=This limit was used in the evaluation of the final result

Sample Description: SL-514-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6620870  
LLI Group # 1303085  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/17/2012 10:15

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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SL514 SDG#: PH001-16MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>					<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>					<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	23.9	B	0.0386	1.19	1
11031	12378-PeCDD	40321-76-4	115	B	0.0439	5.93	1
11031	123478-HxCDD	39227-28-6	112	B	0.0378	5.93	1
11031	123678-HxCDD	57653-85-7	109	B	0.0352	5.93	1
11031	123789-HxCDD	19408-74-3	116	B	0.0374	5.93	1
11031	1234678-HpCDD	35822-46-9	156	B	0.0690	5.93	1
11031	OCDD	3268-87-9	836	B	0.0425	11.9	1
11031	2378-TCDF	51207-31-9	21.5		0.0580	1.19	1
11031	12378-PeCDF	57117-41-6	114	B	0.0448	5.93	1
11031	23478-PeCDF	57117-31-4	106	B	0.0423	5.93	1
11031	123478-HxCDF	70648-26-9	114	B	0.0454	5.93	1
11031	123678-HxCDF	57117-44-9	113	B	0.0431	5.93	1
11031	123789-HxCDF	72918-21-9	115	B	0.0444	5.93	1
11031	234678-HxCDF	60851-34-5	110	B	0.0412	5.93	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0428	5.93	1
11031	1234789-HpCDF	55673-89-7	112	B	0.0533	5.93	1
11031	OCDF	39001-02-0	235	B	0.0284	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	60	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-514-SA5C-SB-0.0-0.5 MSD Soil  
 SSFL Phase 3 Soil Sampling  
 SL-514-SA5C-SB

LLI Sample # SW 6620870  
 LLI Group # 1303085  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:15

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SL514 SDG#: PH001-16MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-514-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6620870  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:15

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Submitted: 04/18/2012 09:40

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SL514 SDG#: PH001-16MSD

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 20:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-814-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-814-SA5C-SB

LLI Sample # SW 6620871  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:10

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Submitted: 04/18/2012 09:40

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SL814 SDG#: PH001-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	12.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-814-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-814-SA5C-SB

LLI Sample # SW 6620871  
LLI Group # 1303085  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/17/2012 10:10

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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SL814 SDG#: PH001-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>		
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>		
11031	2378-TCDD	1746-01-6	0.0776	JB	0.0294	1.15	1
11031	12378-PeCDD	40321-76-4	0.390	JB	0.0433	5.73	1
11031	123478-HxCDD	39227-28-6	0.512	JB	0.0384	5.73	1
11031	123678-HxCDD	57653-85-7	2.16	JB	0.0365	5.73	1
11031	123789-HxCDD	19408-74-3	1.72	JB	0.0388	5.73	1
11031	1234678-HpCDD	35822-46-9	35.6	B	0.0580	5.73	1
11031	OCDD	3268-87-9	394	B	0.0364	11.5	1
11031	2378-TCDF	51207-31-9	0.284	J	0.0412	1.15	1
11031	12378-PeCDF	57117-41-6	0.529	JB	0.0288	5.73	1
11031	23478-PeCDF	57117-31-4	0.416	JBQ	0.0292	5.73	1
11031	123478-HxCDF	70648-26-9	0.451	JB	0.0309	5.73	1
11031	123678-HxCDF	57117-44-9	0.401	JB	0.0270	5.73	1
11031	123789-HxCDF	72918-21-9	0.839	JB	0.0345	5.73	1
11031	234678-HxCDF	60851-34-5	0.469	JB	0.0302	5.73	1
11031	1234678-HpCDF	67562-39-4	4.57	JB	0.0194	5.73	1
11031	1234789-HpCDF	55673-89-7	0.479	JB	0.0361	5.73	1
11031	OCDF	39001-02-0	10.9	JB	0.0326	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	46	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-814-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-814-SA5C-SB

**LLI Sample #** SW 6620871  
**LLI Group #** 1303085  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:10

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Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL814 SDG#: PH001-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-814-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-814-SA5C-SB

LLI Sample # SW 6620871  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 10:10

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL814 SDG#: PH001-17

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 20:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-578-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-578-SA5C-SB

LLI Sample # SW 6620872  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 11:35

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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SL578 SDG#: PH001-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-578-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-578-SA5C-SB

LLI Sample # SW 6620872  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 11:35

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL578 SDG#: PH001-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0697	JB	0.0262	1.16	1
11031	12378-PeCDD	40321-76-4	0.438	JB	0.0434	5.81	1
11031	123478-HxCDD	39227-28-6	0.489	JB	0.0302	5.81	1
11031	123678-HxCDD	57653-85-7	1.76	JB	0.0286	5.81	1
11031	123789-HxCDD	19408-74-3	1.82	JB	0.0286	5.81	1
11031	1234678-HpCDD	35822-46-9	27.5	B	0.0480	5.81	1
11031	OCDD	3268-87-9	446	B	0.0373	11.6	1
11031	2378-TCDF	51207-31-9	0.252	J	0.0537	1.16	1
11031	12378-PeCDF	57117-41-6	1.10	JB	0.0321	5.81	1
11031	23478-PeCDF	57117-31-4	0.370	JB	0.0338	5.81	1
11031	123478-HxCDF	70648-26-9	0.431	JB	0.0356	5.81	1
11031	123678-HxCDF	57117-44-9	0.279	JB	0.0284	5.81	1
11031	123789-HxCDF	72918-21-9	1.07	JB	0.0399	5.81	1
11031	234678-HxCDF	60851-34-5	0.356	JB	0.0344	5.81	1
11031	1234678-HpCDF	67562-39-4	2.94	JB	0.0134	5.81	1
11031	1234789-HpCDF	55673-89-7	0.276	JB	0.0310	5.81	1
11031	OCDF	39001-02-0	7.92	JB	0.0364	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	66	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	47	26 - 138
13C12-OCDF	40	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-578-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-578-SA5C-SB

LLI Sample # SW 6620872  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 11:35

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Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL578 SDG#: PH001-18

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-578-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-578-SA5C-SB

LLI Sample # SW 6620872  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 11:35

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Reported: 04/30/2012 19:49

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SL578 SDG#: PH001-18

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 21:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-680-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-680-SA5C-SB

LLI Sample # SW 6620873  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 09:05

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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SL680 SDG#: PH001-19\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-680-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-680-SA5C-SB

LLI Sample # SW 6620873  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 09:05

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

3201 Jermantown Road

Reported: 04/30/2012 19:49

Suite 400

Fairfax VA 22030

SL680 SDG#: PH001-19\*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0692	JB	0.0221	1.15	1
11031	12378-PeCDD	40321-76-4	0.306	JB	0.0282	5.74	1
11031	123478-HxCDD	39227-28-6	0.753	JB	0.0506	5.74	1
11031	123678-HxCDD	57653-85-7	3.27	JB	0.0503	5.74	1
11031	123789-HxCDD	19408-74-3	1.34	JB	0.0452	5.74	1
11031	1234678-HpCDD	35822-46-9	83.2	B	0.0671	5.74	1
11031	OCDD	3268-87-9	646	B	0.0408	11.5	1
11031	2378-TCDF	51207-31-9	0.411	J	0.0883	1.15	1
11031	12378-PeCDF	57117-41-6	1.34	JB	0.0433	5.74	1
11031	23478-PeCDF	57117-31-4	0.845	JB	0.0403	5.74	1
11031	123478-HxCDF	70648-26-9	0.697	JB	0.0323	5.74	1
11031	123678-HxCDF	57117-44-9	0.469	JB	0.0310	5.74	1
11031	123789-HxCDF	72918-21-9	0.530	JB	0.0318	5.74	1
11031	234678-HxCDF	60851-34-5	0.584	JB	0.0308	5.74	1
11031	1234678-HpCDF	67562-39-4	9.23	B	0.0279	5.74	1
11031	1234789-HpCDF	55673-89-7	0.880	JB	0.0345	5.74	1
11031	OCDF	39001-02-0	26.8	B	0.0236	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	62	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-680-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-680-SA5C-SB

LLI Sample # SW 6620873  
 LLI Group # 1303085  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

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Fairfax VA 22030

SL680 SDG#: PH001-19\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-680-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-680-SA5C-SB

LLI Sample # SW 6620873  
LLI Group # 1303085  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 09:05

CDM Federal Programs Corp.

Submitted: 04/18/2012 09:40

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Fairfax VA 22030

SL680 SDG#: PH001-19\*

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was 8.6C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 10.2-11.5 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12116001	04/27/2012 22:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12116001	04/25/2012 12:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401A	04/25/2012 12:05	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 04/30/12 at 07:49 PM

Group Number: 1303085

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12116162401A	Sample number(s): 6620861-6620873								
28a Moisture Content by 160.3					99		80-120		
Moisture Content by 160.3					99		80-120		
Moisture Content by 160.3					99		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12116001	Sample number(s): 6620861-6620873								
2378-TCDD	0.0739 J	0.0350	1.00	ng/kg	105		67-158		
12378-PeCDD	0.0530 J	0.0184	5.00	ng/kg	100		70-142		
123478-HxCDD	0.0333 J	0.0142	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0480 J	0.0158	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0509 J	0.0149	5.00	ng/kg	97		64-162		
1234678-HpCDD	0.329 J	0.0200	5.00	ng/kg	96		70-140		
OCDD	0.967 J	0.0197	10.0	ng/kg	90		78-144		
2378-TCDF	0.0256 U	0.0256	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0529 J	0.0165	5.00	ng/kg	92		80-134		
23478-PeCDF	0.103 J	0.0139	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0459 J	0.0122	5.00	ng/kg	95		72-134		
123678-HxCDF	0.0498 J	0.0107	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0309 J	0.0125	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0816 J	0.0113	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.135 J	0.00910	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0657 J	0.0144	5.00	ng/kg	92		78-138		
OCDF	0.161 J	0.0185	10.0	ng/kg	94		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12116162401A	Sample number(s): 6620861-6620873						BKG: 6620868		
28a Moisture Content by 160.3						15.8	15.3	3	20
Moisture Content by 160.3						15.8	15.3	3	20
Moisture Content by 160.3						15.8	15.3	3	20
Batch number: 12116001	Sample number(s): 6620861-6620873						UNSPK: 6620868		
2378-TCDD	101	100	67-158	1	25				
12378-PeCDD	97	96	70-142	1	25				

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 04/30/12 at 07:49 PM

Group Number: 1303085

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
123478-HxCDD	91	94	70-164	3	25				
123678-HxCDD	94	90	76-134	5	25				
123789-HxCDD	98	96	64-162	2	25				
1234678-HpCDD	89	91	70-140	1	25				
OCDD	55*	112	78-144	18	25				
2378-TCDF	91	89	75-158	2	25				
12378-PeCDF	95	95	80-134	1	25				
23478-PeCDF	92	89	68-160	4	25				
123478-HxCDF	97	96	72-134	2	25				
123678-HxCDF	96	95	84-130	1	25				
123789-HxCDF	97	97	78-130	0	25				
234678-HxCDF	93	92	70-156	1	25				
1234678-HpCDF	88	88	82-122	0	25				
1234789-HpCDF	94	94	78-138	0	25				
OCDF	92	91	63-170	1	25				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B  
Batch number: 12116001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6620861	62	75	67	73	67	62
6620862	80	79	75	74	74	74
6620863	80	100	70	76	69	68
6620864	82	78	74	76	74	80
6620865	79	76	72	76	72	73
6620866	91	88	64	77	67	57
6620867	63	77	70	82	72	60
6620868	106	103	79	83	78	74
6620869	88	82	79	81	80	84
6620870	78	74	72	74	72	73
6620871	73	69	69	77	69	64
6620872	76	66	66	79	67	59
6620873	84	75	77	75	76	81
Blank	68	95	65	73	68	65
MS	88	82	79	81	80	84
MSD	78	74	72	74	72	73
OPR	69	73	66	73	68	61
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6620861	91	55	49	83	85	90
6620862	73	66	60	80	81	80
6620863	90	59	55	108	83	85

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 04/30/12 at 07:49 PM

Group Number: 1303085

### Surrogate Quality Control

6620864	87	72	70	84	89	101
6620865	89	69	65	82	83	95
6620866	97	50	42	100	87	90
6620867	108	54	45	86	88	96
6620868	94	68	63	112	95	107
6620869	90	73	71	89	90	104
6620870	74	63	60	79	84	93
6620871	90	52	46	74	88	93
6620872	97	47	40	75	83	93
6620873	79	71	62	81	84	94
Blank	87	61	55	105	80	77
MS	90	73	71	89	90	104
MSD	74	63	60	79	84	93
OPR	87	61	55	82	80	76

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
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	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
--	--------------------	---------------------	------------	-----------------	-------------------	--

6620861	82	78	71	54	81
6620862	81	76	68	77	80
6620863	80	77	73	75	112
6620864	101	86	82	72	79
6620865	89	83	79	58	81
6620866	82	80	71	75	103
6620867	89	86	79	55	90
6620868	93	87	82	77	112
6620869	104	87	82	82	87
6620870	84	74	67	74	75
6620871	85	73	68	68	77
6620872	91	76	71	66	77
6620873	94	79	70	79	78
Blank	78	78	73	62	85
MS	104	87	82	82	87
MSD	84	74	67	74	75
OPR	78	78	75	65	80

Limits:	28-130	23-140	17-157	24-169	24-185
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\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct# 13013 Cup# 1303085

Sample# 6620861-73

# SSFL Phase 3 Chain of Custody

CDM Smith

No:

20120417-02

Date Shipped: 4/17/2012

Contact Name: Pam Hartman

Cooler #:

Carrier Name: FedEx

Contact Phone: (818)466-8007

Lab:

Lancaster Laboratories, Inc.

Airbill No:

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EH 8015	TPH-SRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes		
SL-691-SA5C-SB-0.0-0.5	4/16/12 11:35	SO	None	1 - SS-Sleeve	10 day																																		
SL-690-SA5C-SB-0.0-0.5	4/16/12 11:05	SO	None	1 - SS-Sleeve	10 day																																		
SL-689-SA5C-SB-0.0-0.5	4/16/12 10:40	SO	None	1 - SS-Sleeve	10 day																																		
SL-688-SA5C-SB-0.0-0.5	4/16/12 09:40	SO	None	1 - SS-Sleeve	10 day																																		
SL-687-SA5C-SB-0.0-0.5	4/16/12 10:10	SO	None	1 - SS-Sleeve	10 day																																		
SL-692-SA5C-SB-0.0-0.5	4/16/12 13:05	SO	None	1 - SS-Sleeve	10 day																																		
SL-693-SA5C-SB-0.0-0.5	4/16/12 13:30	SO	None	1 - SS-Sleeve	10 day																																		
SL-514-SA5C-SB-0.0-0.5MS	4/17/12 10:15	SO	None	3 - SS-Sleeve	10 day																																		
SL-814-SA5C-SB-0.0-0.5	4/17/12 10:10	SO	None	1 - SS-Sleeve	10 day																																		
SL-578-SA5C-SB-0.0-0.5	4/17/12 11:35	SO	None	1 - SS-Sleeve	10 day																																		
SL-680-SA5C-SB-0.0-0.5	4/17/12 09:05	SO	None	1 - SS-Sleeve	10 day																																		

Special Instructions: **SAMPLES TRANSFERRED FROM**  
**CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>										
									<i>[Signature]</i>	4/18/12	0940

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

April 27, 2012

Project: SSFL Phase 3 Sampling

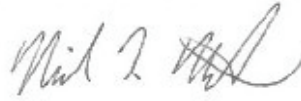
Submittal Date: 04/19/2012  
Group Number: 1303408  
SDG: PT001  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-581-SA5C-SB-0.0-0.5 Soil  
SL-570-SA5C-SB-0.0-0.5 Soil  
SL-570-SA5C-SB-2.0-3.0 Soil  
SL-580-SA5C-SB-0.0-0.5 Soil  
SL-580-SA5C-SB-4.0-5.0 SoilLancaster Labs (LLI) #6622588  
6622589  
6622590  
6622591  
6622592

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
1 COPY TO      Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-581-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6622588  
LLI Group # 1303408  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 14:40

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 04/27/2012 19:40

Suite 400

Fairfax VA 22030

T0101 SDG#: PT001-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,300	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121150001A	04/26/2012 22:54	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121150001A	04/24/2012 14:15	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401B	04/24/2012 12:21	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-570-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-570-SA5C-SB

LLI Sample # SW 6622589  
LLI Group # 1303408  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 09:00

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 04/27/2012 19:40

Suite 400

Fairfax VA 22030

T0102 SDG#: PT001-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,300	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121150001A	04/26/2012 23:23	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121150001A	04/24/2012 14:15	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401B	04/24/2012 12:21	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-570-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-570-SA5C-SB

LLI Sample # SW 6622590  
LLI Group # 1303408  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 10:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 04/27/2012 19:40

Suite 400

Fairfax VA 22030

T0103 SDG#: PT001-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,300	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121150001A	04/26/2012 23:42	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121150001A	04/24/2012 14:15	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401B	04/24/2012 12:21	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-580-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-580-SA5C-SB

LLI Sample # SW 6622591  
LLI Group # 1303408  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 11:00

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 04/27/2012 19:40

Suite 400

Fairfax VA 22030

T0104 SDG#: PT001-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,400	U 1,400	3,500	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121150001A	04/26/2012 23:51	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121150001A	04/24/2012 14:15	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401B	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-580-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-580-SA5C-SB

LLI Sample # SW 6622592  
LLI Group # 1303408  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 11:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 04/27/2012 19:40

Suite 400

Fairfax VA 22030

T0105 SDG#: PT001-05\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,400	U 1,400	3,400	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121150001A	04/27/2012 00:01	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121150001A	04/24/2012 14:15	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401B	04/24/2012 12:21	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 04/27/12 at 07:40 PM

Group Number: 1303408

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121150001A 20a Formaldehyde 8315A	1,200 J	1,200.	3,000	ug/kg	105		80-126		
Batch number: 12115162401B Moisture Content by 160.3					100		80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121150001A 20a Formaldehyde 8315A	97	101	80-120	4	50	UNSPK: 6622588			
Batch number: 12115162401B Moisture Content by 160.3						BKG: 6622590 8.2	8.3	1	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121150001A  
Butyraldehyde

---

6622588	105
6622589	104
6622590	100
6622591	101
6622592	99
Blank	107
LCS	100
MS	100
MSD	103

---

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

**Quality Control Summary**

Client Name: CDM Federal Programs Corp.  
Reported: 04/27/12 at 07:40 PM

Group Number: 1303408

**Surrogate Quality Control**

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Acc# 13013 Cup# 1303408  
 Sample# 6622588-92

# SSFL Phase 3 Chain of Custody

CDM Smith  
 Date Shipped: 4/18/2012  
 Carrier Name: FedEx  
 Airbill No:

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120418-02  
 Cooler #:  
 Lab: Lancaster Laboratories, Inc.  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Organotin	NDMA 1635	Formaldehyde 8315	Cyanide 9012	Energetic 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EH 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6030 and 6020	Other Analysis/Notes				
SL-577-SASC-SB-0.0-0.5	4/17/12 13:30	SO	None	1 - SS-Sleeve	10 day																																			
SL-581-SASC-SB-0.0-0.5	4/17/12 14:40	SO	None	1 - SS-Sleeve	10 day																																			
SL-747-SASC-SB-0.0-0.5	4/17/12 14:05	SO	None	1 - SS-Sleeve	10 day																																			
SL-570-SASC-SB-0.0-0.5	4/18/12 09:00	SO	None	1 - SS-Sleeve	10 day																																			
SL-570-SASC-SB-2.0-3.0	4/18/12 10:30	SO	None	1 - SS-Sleeve	10 day																																			
SL-580-SASC-SB-0.0-0.5	4/18/12 11:00	SO	None	1 - SS-Sleeve	10 day																																			
SL-580-SASC-SB-4.0-5.0	4/18/12 11:30	SO	None	1 - SS-Sleeve	10 day																																			

Special Instructions: SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
<del>_____</del>											
			Bundy	4-19-12	9:10						
			Bundy								

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 02, 2012

Project: SSFL Phase 3 Sampling

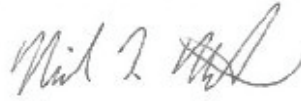
Submittal Date: 04/19/2012  
Group Number: 1303409  
SDG: PH002  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-577-SA5C-SB-0.0-0.5 Soil  
SL-581-SA5C-SB-0.0-0.5 Soil  
SL-747-SA5C-SB-0.0-0.5 Soil  
SL-570-SA5C-SB-0.0-0.5 Soil  
SL-570-SA5C-SB-2.0-3.0 Soil  
SL-580-SA5C-SB-0.0-0.5 Soil  
SL-580-SA5C-SB-4.0-5.0 SoilLancaster Labs (LLI) #6622593  
6622594  
6622595  
6622596  
6622597  
6622598  
6622599

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

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CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-577-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-577-SA5C-SB

LLI Sample # SW 6622593  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 13:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

Suite 400

Fairfax VA 22030

H0201 SDG#: PH002-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-577-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-577-SA5C-SB

LLI Sample # SW 6622593  
LLI Group # 1303409  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/17/2012 13:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

Suite 400

Fairfax VA 22030

H0201 SDG#: PH002-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0587	JQ	0.0228	1
11031	12378-PeCDD	40321-76-4	0.366	JB	0.0571	1
11031	123478-HxCDD	39227-28-6	0.823	JB	0.0550	1
11031	123678-HxCDD	57653-85-7	4.35	JB	0.0518	1
11031	123789-HxCDD	19408-74-3	1.80	JB	0.0542	1
11031	1234678-HpCDD	35822-46-9	152	B	0.101	1
11031	OCDD	3268-87-9	2,650	B	0.0636	1
11031	2378-TCDF	51207-31-9	1.34	BC	0.260	1
11031	12378-PeCDF	57117-41-6	45.9	B	0.105	1
11031	23478-PeCDF	57117-31-4	2.40	JB	0.101	1
11031	123478-HxCDF	70648-26-9	9.07	B	0.0801	1
11031	123678-HxCDF	57117-44-9	1.95	JB	0.0787	1
11031	123789-HxCDF	72918-21-9	0.0794	U	0.0794	1
11031	234678-HxCDF	60851-34-5	2.09	JB	0.0763	1
11031	1234678-HpCDF	67562-39-4	16.5	B	0.0302	1
11031	1234789-HpCDF	55673-89-7	2.16	JB	0.0379	1
11031	OCDF	39001-02-0	33.9	B	0.0215	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	65	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-577-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-577-SA5C-SB

**LLI Sample #** SW 6622593  
**LLI Group #** 1303409  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 13:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

Suite 400

Fairfax VA 22030

H0201 SDG#: PH002-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-577-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-577-SA5C-SB

LLI Sample # SW 6622593  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 13:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

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Reported: 05/02/2012 12:34

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Fairfax VA 22030

H0201 SDG#: PH002-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 02:39	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401B	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-581-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6622594  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 14:40

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

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Fairfax VA 22030

H0202 SDG#: PH002-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-581-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6622594  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 14:40

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

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Reported: 05/02/2012 12:34

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H0202 SDG#: PH002-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0234	U	0.0234	1.08	1
11031	12378-PeCDD	40321-76-4	0.205	JB	0.0366	5.38	1
11031	123478-HxCDD	39227-28-6	0.210	JB	0.0432	5.38	1
11031	123678-HxCDD	57653-85-7	1.45	JB	0.0389	5.38	1
11031	123789-HxCDD	19408-74-3	1.22	JB	0.0408	5.38	1
11031	1234678-HpCDD	35822-46-9	21.2	B	0.0454	5.38	1
11031	OCDD	3268-87-9	169	B	0.0261	10.8	1
11031	2378-TCDF	51207-31-9	0.0254	JB	0.0211	1.08	1
11031	12378-PeCDF	57117-41-6	0.329	JB	0.0149	5.38	1
11031	23478-PeCDF	57117-31-4	0.0791	JB	0.0145	5.38	1
11031	123478-HxCDF	70648-26-9	0.148	JB	0.0216	5.38	1
11031	123678-HxCDF	57117-44-9	0.160	JB	0.0201	5.38	1
11031	123789-HxCDF	72918-21-9	0.684	JB	0.0226	5.38	1
11031	234678-HxCDF	60851-34-5	0.157	JB	0.0210	5.38	1
11031	1234678-HpCDF	67562-39-4	2.39	JB	0.0193	5.38	1
11031	1234789-HpCDF	55673-89-7	0.239	JB	0.0268	5.38	1
11031	OCDF	39001-02-0	5.61	JB	0.0189	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	53	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-581-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6622594  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 14:40

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Submitted: 04/19/2012 09:10

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H0202 SDG#: PH002-02

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-581-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6622594  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 14:40

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

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H0202 SDG#: PH002-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 03:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401B	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-747-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-747-SA5C-SB

LLI Sample # SW 6622595  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 14:05

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

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Reported: 05/02/2012 12:34

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H0203 SDG#: PH002-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	16.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-747-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-747-SA5C-SB

LLI Sample # SW 6622595  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 14:05

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

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H0203 SDG#: PH002-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
	<b>EPA 1613B</b>					
11031	2378-TCDD	1746-01-6	3.45	0.117	1.19	1
11031	12378-PeCDD	40321-76-4	30.1	0.142	5.94	1
			B			
11031	123478-HxCDD	39227-28-6	60.4	0.155	5.94	1
			B			
11031	123678-HxCDD	57653-85-7	248	0.163	5.94	1
			B			
11031	123789-HxCDD	19408-74-3	117	0.149	5.94	1
			B			
11031	1234678-HpCDD	35822-46-9	4,900	0.239	5.94	1
			EB			
11031	OCDD	3268-87-9	42,600	0.185	11.9	1
			EB			
11031	2378-TCDF	51207-31-9	1.80	0.116	1.19	1
			BC			
11031	12378-PeCDF	57117-41-6	4.93	0.0573	5.94	1
			JB			
11031	23478-PeCDF	57117-31-4	6.08	0.0539	5.94	1
			B			
11031	123478-HxCDF	70648-26-9	19.0	0.111	5.94	1
			B			
11031	123678-HxCDF	57117-44-9	18.4	0.101	5.94	1
			B			
11031	123789-HxCDF	72918-21-9	5.01	0.113	5.94	1
			JB			
11031	234678-HxCDF	60851-34-5	32.2	0.106	5.94	1
			B			
11031	1234678-HpCDF	67562-39-4	476	0.0848	5.94	1
			B			
11031	1234789-HpCDF	55673-89-7	57.1	0.117	5.94	1
			B			
11031	OCDF	39001-02-0	943	0.0460	11.9	1
			B			

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	101	25 - 164
13C12-12378-PeCDD	104	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	99	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	75	29 - 147

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-747-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-747-SA5C-SB

LLI Sample # SW 6622595  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 14:05

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

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Reported: 05/02/2012 12:34

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H0203 SDG#: PH002-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Labeled Compounds</b>						
		<b>%Rec</b>	<b>Windows</b>			
	13C12-1234678-HpCDF	82	28 - 143			
	13C12-1234789-HpCDF	67	26 - 138			
	13C12-OCDF	67	17 - 157			

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present
- S* Saturation of detection signal

**Sample Description:** SL-747-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-747-SA5C-SB

LLI Sample # SW 6622595  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/17/2012 14:05

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

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Reported: 05/02/2012 12:34

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H0203 SDG#: PH002-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 07:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12116162401B	04/25/2012 12:05	William C Schwebel	1

**Sample Description:** SL-570-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-570-SA5C-SB

LLI Sample # SW 6622596  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 09:00

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

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Reported: 05/02/2012 12:34

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H0204 SDG#: PH002-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.4	0.50	0.50	1

Sample Description: SL-570-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-570-SA5C-SB

LLI Sample # SW 6622596  
LLI Group # 1303409  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/18/2012 09:00

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

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Reported: 05/02/2012 12:34

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H0204 SDG#: PH002-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0222	U	0.0222	1.09	1
11031	12378-PeCDD	40321-76-4	0.257	JB	0.0429	5.46	1
11031	123478-HxCDD	39227-28-6	0.419	JB	0.0432	5.46	1
11031	123678-HxCDD	57653-85-7	1.37	JB	0.0464	5.46	1
11031	123789-HxCDD	19408-74-3	0.898	JB	0.0439	5.46	1
11031	1234678-HpCDD	35822-46-9	28.5	B	0.0505	5.46	1
11031	OCDD	3268-87-9	250	B	0.0273	10.9	1
11031	2378-TCDF	51207-31-9	0.0839	JB	0.0346	1.09	1
11031	12378-PeCDF	57117-41-6	0.473	JB	0.0265	5.46	1
11031	23478-PeCDF	57117-31-4	0.114	JB	0.0254	5.46	1
11031	123478-HxCDF	70648-26-9	0.405	JB	0.0295	5.46	1
11031	123678-HxCDF	57117-44-9	0.227	JB	0.0283	5.46	1
11031	123789-HxCDF	72918-21-9	0.140	JB	0.0286	5.46	1
11031	234678-HxCDF	60851-34-5	0.287	JB	0.0265	5.46	1
11031	1234678-HpCDF	67562-39-4	3.97	JB	0.0228	5.46	1
11031	1234789-HpCDF	55673-89-7	0.319	JB	0.0298	5.46	1
11031	OCDF	39001-02-0	8.62	JB	0.0162	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	75	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-570-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-570-SA5C-SB

LLI Sample # SW 6622596  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 09:00

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Submitted: 04/19/2012 09:10

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H0204 SDG#: PH002-04

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-570-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-570-SA5C-SB

LLI Sample # SW 6622596  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 09:00

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

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Reported: 05/02/2012 12:34

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H0204 SDG#: PH002-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	05/02/2012 01:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401B	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-570-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-570-SA5C-SB

LLI Sample # SW 6622597  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 10:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

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Reported: 05/02/2012 12:34

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H0205 SDG#: PH002-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1

**Sample Description:** SL-570-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-570-SA5C-SB

LLI Sample # SW 6622597  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 10:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

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Reported: 05/02/2012 12:34

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H0205 SDG#: PH002-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0279 JQ	0.0202	1.07	1
11031	12378-PeCDD	40321-76-4	0.156 JB	0.0305	5.36	1
11031	123478-HxCDD	39227-28-6	0.306 JB	0.0376	5.36	1
11031	123678-HxCDD	57653-85-7	0.990 JB	0.0358	5.36	1
11031	123789-HxCDD	19408-74-3	0.610 JB	0.0374	5.36	1
11031	1234678-HpCDD	35822-46-9	28.9 B	0.0718	5.36	1
11031	OCDD	3268-87-9	302 B	0.0351	10.7	1
11031	2378-TCDF	51207-31-9	0.0781 JBQ	0.0236	1.07	1
11031	12378-PeCDF	57117-41-6	0.328 JB	0.0183	5.36	1
11031	23478-PeCDF	57117-31-4	0.0828 JB	0.0184	5.36	1
11031	123478-HxCDF	70648-26-9	0.257 JB	0.0268	5.36	1
11031	123678-HxCDF	57117-44-9	0.162 JB	0.0252	5.36	1
11031	123789-HxCDF	72918-21-9	0.122 JB	0.0261	5.36	1
11031	234678-HxCDF	60851-34-5	0.248 JB	0.0256	5.36	1
11031	1234678-HpCDF	67562-39-4	2.39 JB	0.0225	5.36	1
11031	1234789-HpCDF	55673-89-7	0.288 JB	0.0320	5.36	1
11031	OCDF	39001-02-0	6.07 JB	0.0254	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	57	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-570-SA5C-SB-2.0-3.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-570-SA5C-SB

LLI Sample # SW 6622597  
 LLI Group # 1303409  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 10:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

Suite 400

Fairfax VA 22030

H0205 SDG#: PH002-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-570-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-570-SA5C-SB

LLI Sample # SW 6622597  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 10:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

Suite 400

Fairfax VA 22030

H0205 SDG#: PH002-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 09:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401B	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-580-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-580-SA5C-SB

LLI Sample # SW 6622598  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 11:00

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

Suite 400

Fairfax VA 22030

H0206 SDG#: PH002-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1

**Sample Description:** SL-580-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-580-SA5C-SB

LLI Sample # SW 6622598  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 11:00

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

Suite 400

Fairfax VA 22030

H0206 SDG#: PH002-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.112	J	0.0375	1.14	1
11031	12378-PeCDD	40321-76-4	0.521	JB	0.0586	5.72	1
11031	123478-HxCDD	39227-28-6	0.720	JB	0.0362	5.72	1
11031	123678-HxCDD	57653-85-7	2.57	JB	0.0362	5.72	1
11031	123789-HxCDD	19408-74-3	1.77	JB	0.0345	5.72	1
11031	1234678-HpCDD	35822-46-9	57.5	B	0.0647	5.72	1
11031	OCDD	3268-87-9	717	B	0.0421	11.4	1
11031	2378-TCDF	51207-31-9	0.789	JB	0.136	1.14	1
11031	12378-PeCDF	57117-41-6	12.4	B	0.0684	5.72	1
11031	23478-PeCDF	57117-31-4	0.816	JB	0.0663	5.72	1
11031	123478-HxCDF	70648-26-9	2.45	JB	0.0559	5.72	1
11031	123678-HxCDF	57117-44-9	0.541	JB	0.0513	5.72	1
11031	123789-HxCDF	72918-21-9	0.613	JB	0.0588	5.72	1
11031	234678-HxCDF	60851-34-5	0.720	JB	0.0539	5.72	1
11031	1234678-HpCDF	67562-39-4	6.84	B	0.0328	5.72	1
11031	1234789-HpCDF	55673-89-7	0.720	JB	0.0453	5.72	1
11031	OCDF	39001-02-0	20.2	B	0.0310	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	101	28 - 130
13C12-123789-HxCDD	98	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	71	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-580-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-580-SA5C-SB

LLI Sample # SW 6622598  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 11:00

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

Suite 400

Fairfax VA 22030

H0206 SDG#: PH002-06

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-580-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-580-SA5C-SB

LLI Sample # SW 6622598  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 11:00

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

Suite 400

Fairfax VA 22030

H0206 SDG#: PH002-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 10:25	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401B	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-580-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-580-SA5C-SB

LLI Sample # SW 6622599  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 11:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

Suite 400

Fairfax VA 22030

H0207 SDG#: PH002-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1

Sample Description: SL-580-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-580-SA5C-SB

LLI Sample # SW 6622599  
LLI Group # 1303409  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/18/2012 11:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

Suite 400

Fairfax VA 22030

H0207 SDG#: PH002-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0783 J	0.0247	1.13	1
11031	12378-PeCDD	40321-76-4	0.189 JB	0.0223	5.64	1
11031	123478-HxCDD	39227-28-6	0.0915 JB	0.0234	5.64	1
11031	123678-HxCDD	57653-85-7	0.136 JB	0.0207	5.64	1
11031	123789-HxCDD	19408-74-3	0.156 JBQ	0.0188	5.64	1
11031	1234678-HpCDD	35822-46-9	0.607 JB	0.0312	5.64	1
11031	OCDD	3268-87-9	4.05 JB	0.0308	11.3	1
11031	2378-TCDF	51207-31-9	0.0602 JB	0.0196	1.13	1
11031	12378-PeCDF	57117-41-6	0.210 JB	0.0159	5.64	1
11031	23478-PeCDF	57117-31-4	0.182 JB	0.0167	5.64	1
11031	123478-HxCDF	70648-26-9	0.131 JBQ	0.0231	5.64	1
11031	123678-HxCDF	57117-44-9	0.139 JB	0.0206	5.64	1
11031	123789-HxCDF	72918-21-9	0.106 JBQ	0.0227	5.64	1
11031	234678-HxCDF	60851-34-5	0.0957 JB	0.0210	5.64	1
11031	1234678-HpCDF	67562-39-4	0.115 JB	0.0227	5.64	1
11031	1234789-HpCDF	55673-89-7	0.113 JB	0.0362	5.64	1
11031	OCDF	39001-02-0	0.183 JB	0.0339	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	97	28 - 130
13C12-123789-HxCDD	101	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	55	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-580-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-580-SA5C-SB

LLI Sample # SW 6622599  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 11:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

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H0207 SDG#: PH002-07

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-580-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-580-SA5C-SB

LLI Sample # SW 6622599  
LLI Group # 1303409  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 11:30

CDM Federal Programs Corp.

Submitted: 04/19/2012 09:10

3201 Jermantown Road

Reported: 05/02/2012 12:34

Suite 400

Fairfax VA 22030

H0207 SDG#: PH002-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 11:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401B	04/24/2012 12:21	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/02/12 at 12:34 PM

Group Number: 1303409

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12115162401B Moisture Content by 160.3	Sample number(s): 6622594,6622596-6622599				100		80-120		
Batch number: 12116162401B Moisture Content by 160.3	Sample number(s): 6622593,6622595				99		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12117001	Sample number(s): 6622593-6622599								
2378-TCDD	0.0167 U	0.0167	1.00	ng/kg	101		67-158		
12378-PeCDD	0.0153 J	0.0135	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0226 J	0.0127	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0346 J	0.0137	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0282 J	0.0130	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.271 J	0.0170	5.00	ng/kg	95		70-140		
OCDD	0.445 J	0.0168	10.0	ng/kg	92		78-144		
2378-TCDF	0.0206 J	0.0135	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0223 J	0.0102	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0520 J	0.0101	5.00	ng/kg	88		68-160		
123478-HxCDF	0.0424 J	0.00860	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0309 J	0.00750	5.00	ng/kg	96		84-130		
123789-HxCDF	0.0201 J	0.00890	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0334 J	0.00830	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.0949 J	0.00840	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0348 J	0.0138	5.00	ng/kg	92		78-138		
OCDF	0.111 J	0.0177	10.0	ng/kg	93		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>	
Batch number: 12115162401B Moisture Content by 160.3	Sample number(s): 6622594,6622596-6622599						BKG: P622590 8.2	8.3	1	20
Batch number: 12116162401B Moisture Content by 160.3	Sample number(s): 6622593,6622595						BKG: P624302 15.6	17.5	11	20
Batch number: 12117001	Sample number(s): 6622593-6622599						UNSPK: P625134			

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/02/12 at 12:34 PM

Group Number: 1303409

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
2378-TCDD	104	101	67-158	5	25				
12378-PeCDD	100	98	70-142	4	25				
123478-HxCDD	96	95	70-164	3	25				
123678-HxCDD	108	104	76-134	6	25				
123789-HxCDD	109	107	64-162	4	25				
1234678-HpCDD	476*	340*	70-140	27*	25				
OCDD	4283 (2)	2190 (2)	78-144	46*	25				
2378-TCDF	93	93	75-158	2	25				
12378-PeCDF	96	94	80-134	4	25				
23478-PeCDF	91	88	68-160	6	25				
123478-HxCDF	97	97	72-134	2	25				
123678-HxCDF	94	98	84-130	1	25				
123789-HxCDF	97	99	78-130	1	25				
234678-HxCDF	93	94	70-156	2	25				
1234678-HpCDF	114	107	82-122	8	25				
1234789-HpCDF	95	96	78-138	1	25				
OCDF	135	120	63-170	13	25				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B  
Batch number: 12117001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6622593	84	75	74	76	75	77
6622594	76	69	69	74	69	68
6622595	101	99	75	77	76	75
6622596	86	78	77	80	81	83
6622597	79	69	71	75	71	75
6622598	87	83	80	85	83	79
6622599	73	69	67	75	69	70
Blank	80	72	71	78	72	71
MS	83	75	75	82	76	74
MSD	79	73	70	74	70	72
OPR	71	65	67	73	69	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6622593	77	68	65	79	82	88
6622594	79	60	53	76	82	90
6622595	82	67	67	104	84	82
6622596	90	77	75	86	89	85
6622597	81	62	57	75	83	89
6622598	92	73	71	90	95	101

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/02/12 at 12:34 PM

Group Number: 1303409

### Surrogate Quality Control

6622599	88	59	55	77	85	97
Blank	90	63	57	81	86	85
MS	91	68	64	84	93	100
MSD	84	63	61	81	83	92
OPR	83	60	54	76	83	92
<hr/>						
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
<hr/>						
6622593	82	77	76	78	79	
6622594	86	74	66	69	75	
6622595	84	86	92	89	103	
6622596	85	88	85	73	80	
6622597	83	75	69	72	75	
6622598	98	89	87	76	90	
6622599	101	82	72	65	76	
Blank	85	82	73	70	80	
MS	93	87	86	77	83	
MSD	96	81	79	73	80	
OPR	86	77	71	62	71	
<hr/>						
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

Acct# 13013 Cup# 1303409  
 Sample# 6022593-99

# SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 4/18/2012

Carrier Name: FedEx

Airbill No:

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No:

20120418-02

Cooler #:

Lab:

Lancaster Laboratories, Inc.

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Oranotin	NDMA 1625	Fornaldehyde 8315	Cyanide 9012	Emeretics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EEH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex C- 7196/7199	PH 9040 (Water)	PH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes				
SL-577-SASC-SB-0.0-0.5	4/17/12 13:30	SO	None	1 - SS-Sleeve	10 day																																				
SL-581-SASC-SB-0.0-0.5	4/17/12 14:40	SO	None	1 - SS-Sleeve	10 day					X																															
SL-747-SASC-SB-0.0-0.5	4/17/12 14:05	SO	None	1 - SS-Sleeve	10 day																																				
SL-570-SASC-SB-0.0-0.5	4/18/12 09:00	SO	None	1 - SS-Sleeve	10 day																																				
SL-570-SASC-SB-2.0-3.0	4/18/12 10:30	SO	None	1 - SS-Sleeve	10 day																																				
SL-580-SASC-SB-0.0-0.5	4/18/12 11:00	SO	None	1 - SS-Sleeve	10 day																																				
SL-580-SASC-SB-4.0-5.0	4/18/12 11:30	SO	None	1 - SS-Sleeve	10 day																																				

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
<del>_____</del>											
			Bruny	4-19-12	910						
			Bruny								

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

April 30, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 04/20/2012  
Group Number: 1303746  
SDG: PT002  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

Client Sample Description

SL-579-SA5C-SB-0.0-0.5 Soil  
SL-579-SA5C-SB-4.0-5.0 Soil  
EB-041912 Water

Lancaster Labs (LLI) #

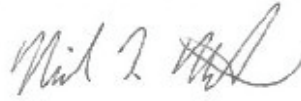
6624287  
6624288  
6624289

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
1 COPY TO CDM Federal Services Program  
Data Package Group

Attn: Todd Burgesser

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-579-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-579-SA5C-SB

LLI Sample # SW 6624287  
LLI Group # 1303746  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 14:04

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

3201 Jermantown Road

Reported: 04/30/2012 17:57

Suite 400

Fairfax VA 22030

T0201 SDG#: PT002-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,400	U 1,400	3,400	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121150001A	04/27/2012 00:10	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121150001A	04/24/2012 14:15	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12117162401B	04/26/2012 12:36	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-579-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-579-SA5C-SB

LLI Sample # SW 6624288  
LLI Group # 1303746  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 14:30

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

3201 Jermantown Road

Reported: 04/30/2012 17:57

Suite 400

Fairfax VA 22030

T0202 SDG#: PT002-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,300	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121150001A	04/27/2012 00:20	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121150001A	04/24/2012 14:15	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12117162401B	04/26/2012 12:36	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB-041912 Water  
SSFL Phase 3 Soil Sampling  
EB

LLI Sample # WW 6624289  
LLI Group # 1303746  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 13:00

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

3201 Jermantown Road

Reported: 04/30/2012 17:57

Suite 400

Fairfax VA 22030

T02EB SDG#: PT002-03EB\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	ug/l	ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10 U	10	50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	20b Formaldehyde 8315A	SW-846 8315A	1	121110009A	04/23/2012 18:01	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	121110009A	04/21/2012 10:15	Denise L Trimby	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 04/30/12 at 05:57 PM

Group Number: 1303746

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121110009A 20b Formaldehyde 8315A	Sample number(s): 6624289 10 U	10.	50	ug/l	96	98	69-130	2	30
Batch number: 121150001A 20a Formaldehyde 8315A	Sample number(s): 6624287-6624288 1,200 J	1,200.	3,000	ug/kg	105		80-126		
Batch number: 12117162401B Moisture Content by 160.3	Sample number(s): 6624287-6624288				100		80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121150001A 20a Formaldehyde 8315A	Sample number(s): 6624287-6624288 UNSPK: P622588 97	101	80-120	4	50				
Batch number: 12117162401B Moisture Content by 160.3	Sample number(s): 6624287-6624288 BKG: P624298 13.3					13.3	14.0	5	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20b Formaldehyde 8315A  
Batch number: 121110009A  
Butyraldehyde

6624289	106
Blank	96
LCS	104
LCSD	103

Limits: 45-145

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 04/30/12 at 05:57 PM

Group Number: 1303746

### Surrogate Quality Control

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121150001A  
Butyraldehyde

---

6624287	98
6624288	98
Blank	107
LCS	100
MS	100
MSD	103

---

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

acct# 13013 Cup# 1303746

Sample# 6624287-89  
**SSFL Phase 3 Chain of Custody**

CDM Smith  
 Date Shipped: 4/19/2012  
 Carrier Name: FedEx  
 Airbill No:

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120419-02  
 Cooler #:   
 Lab: Lancaster Laboratories, Inc.  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Orknoten	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cl 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirms 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes			
SL-579-SA5C-SB-0.0-0.5	4/18/12 14:04	SO	None	1 - SS-Sleeve	10 day				X																															
SL-579-SA5C-SB-4.0-5.0	4/18/12 14:30	SO	None	1 - SS-Sleeve	10 day				X																															
EB-041912	4/19/12 13:00	WQ	None	1 - 250 mL Amber	10 day				X																															
EB-041912	4/19/12 13:00	WQ	None	1 - 1 L Amber	10 day																																			
SL-513-SA5C-SB-0.0-0.5	4/19/12 10:50	SO	None	1 - SS-Sleeve	10 day																																			
SL-515-SA5C-SB-0.0-0.5	4/19/12 10:10	SO	None	1 - SS-Sleeve	10 day																																			
SL-516-SA5C-SB-0.0-0.5	4/19/12 09:15	SO	None	1 - SS-Sleeve	10 day																																			
SL-516-SA5C-SB-4.0-5.0	4/19/12 09:40	SO	None	1 - SS-Sleeve	10 day																																			
SL-575-SA5C-SB-0.0-0.5	4/19/12 11:15	SO	None	1 - SS-Sleeve	10 day																																			

Special Instructions:						SAMPLES TRANSFERRED FROM					
						CHAIN OF CUSTODY #					
Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time

The signed COC was not received. The samples were entered per the pre-entry COC that was emailed on 4/19/12 at 19:18. NM 4/25/12

Nicole Maljovec

---

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]  
**Sent:** Thursday, April 19, 2012 7:18 PM  
**To:** Nicole Maljovec; Burgesser, Todd  
**Subject:** SSFL COC 4/19/12

**Attachments:** Lancaster 041912 COC.pdf; COC\_LLI\_04\_19\_12.xlsx



Lancaster 041912 COC\_LLI\_04\_19\_12  
COC.pdf (99 K... .xlsx (22 KB)

Nicole

We are shipping one cooler with Phase 1, Phase 3 soil samples and the Phase 3 EB.

Thanks!

Pam

Pamela Hartman  
CDM Smith  
523 West Sixth Street Suite 400  
Los Angeles, CA 90014  
818 466 8007 (Santa Susana Field Site)  
714 900 0916 (Cell)

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

## Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 03, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 04/20/2012  
Group Number: 1303748  
SDG: PH002  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

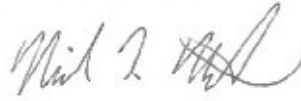
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-579-SA5C-SB-0.0-0.5 Soil	6624292
SL-579-SA5C-SB-4.0-5.0 Soil	6624293
EB-041912 Water	6624294
SL-513-SA5C-SB-0.0-0.5 Soil	6624295
SL-515-SA5C-SB-0.0-0.5 Soil	6624296
SL-516-SA5C-SB-0.0-0.5 Soil	6624297
SL-516-SA5C-SB-4.0-5.0 Soil	6624298
SL-575-SA5C-SB-0.0-0.5 Soil	6624299

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-579-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-579-SA5C-SB

LLI Sample # SW 6624292  
 LLI Group # 1303748  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 14:04

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

3201 Jermantown Road

Reported: 05/03/2012 14:22

Suite 400

Fairfax VA 22030

H0208 SDG#: PH002-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-579-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-579-SA5C-SB

LLI Sample # SW 6624292  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 14:04

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

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Reported: 05/03/2012 14:22

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Fairfax VA 22030

H0208 SDG#: PH002-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.110	J	0.0337	1.10	1
11031	12378-PeCDD	40321-76-4	0.424	JB	0.0541	5.51	1
11031	123478-HxCDD	39227-28-6	0.554	JB	0.0365	5.51	1
11031	123678-HxCDD	57653-85-7	2.51	JB	0.0354	5.51	1
11031	123789-HxCDD	19408-74-3	1.55	JB	0.0359	5.51	1
11031	1234678-HpCDD	35822-46-9	54.0	B	0.0743	5.51	1
11031	OCDD	3268-87-9	568	B	0.0383	11.0	1
11031	2378-TCDF	51207-31-9	0.558	JB	0.134	1.10	1
11031	12378-PeCDF	57117-41-6	14.2	B	0.0660	5.51	1
11031	23478-PeCDF	57117-31-4	0.776	JB	0.0637	5.51	1
11031	123478-HxCDF	70648-26-9	2.47	JB	0.0466	5.51	1
11031	123678-HxCDF	57117-44-9	0.476	JB	0.0440	5.51	1
11031	123789-HxCDF	72918-21-9	0.533	JB	0.0485	5.51	1
11031	234678-HxCDF	60851-34-5	0.620	JB	0.0448	5.51	1
11031	1234678-HpCDF	67562-39-4	6.05	B	0.0356	5.51	1
11031	1234789-HpCDF	55673-89-7	0.881	JB	0.0477	5.51	1
11031	OCDF	39001-02-0	14.7	B	0.0214	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	62	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-579-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-579-SA5C-SB

**LLI Sample #** SW 6624292  
**LLI Group #** 1303748  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 14:04

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

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H0208 SDG#: PH002-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-579-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-579-SA5C-SB

LLI Sample # SW 6624292  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 14:04

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

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H0208 SDG#: PH002-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 12:18	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12117162401B	04/26/2012 12:36	William C Schwebel	1

**Sample Description:** SL-579-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-579-SA5C-SB

LLI Sample # SW 6624293  
 LLI Group # 1303748  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 14:30

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

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Reported: 05/03/2012 14:22

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H0209 SDG#: PH002-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1

\*=This limit was used in the evaluation of the final result

Sample Description: SL-579-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-579-SA5C-SB

LLI Sample # SW 6624293  
LLI Group # 1303748  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/18/2012 14:30

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

3201 Jermantown Road

Reported: 05/03/2012 14:22

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H0209 SDG#: PH002-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0175	U	0.0175	1.09	1
11031	12378-PeCDD	40321-76-4	0.107	JB	0.0283	5.44	1
11031	123478-HxCDD	39227-28-6	0.138	JB	0.0283	5.44	1
11031	123678-HxCDD	57653-85-7	0.815	JB	0.0269	5.44	1
11031	123789-HxCDD	19408-74-3	0.484	JB	0.0253	5.44	1
11031	1234678-HpCDD	35822-46-9	15.9	B	0.0372	5.44	1
11031	OCDD	3268-87-9	193	B	0.0317	10.9	1
11031	2378-TCDF	51207-31-9	0.0910	JB	0.0566	1.09	1
11031	12378-PeCDF	57117-41-6	1.97	JB	0.0331	5.44	1
11031	23478-PeCDF	57117-31-4	0.122	JB	0.0314	5.44	1
11031	123478-HxCDF	70648-26-9	0.416	JB	0.0253	5.44	1
11031	123678-HxCDF	57117-44-9	0.116	JB	0.0241	5.44	1
11031	123789-HxCDF	72918-21-9	0.221	JB	0.0246	5.44	1
11031	234678-HxCDF	60851-34-5	0.151	JB	0.0250	5.44	1
11031	1234678-HpCDF	67562-39-4	1.74	JB	0.0153	5.44	1
11031	1234789-HpCDF	55673-89-7	0.177	JB	0.0205	5.44	1
11031	OCDF	39001-02-0	3.96	JB	0.0160	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	61	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-579-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-579-SA5C-SB

LLI Sample # SW 6624293  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 14:30

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

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Reported: 05/03/2012 14:22

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H0209 SDG#: PH002-09

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-579-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-579-SA5C-SB

LLI Sample # SW 6624293  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/18/2012 14:30

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

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H0209 SDG#: PH002-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 13:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12117162401B	04/26/2012 12:36	William C Schwebel	1

Sample Description: **EB-041912 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB**

LLI Sample # **WW 6624294**  
 LLI Group # **1303748**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 04/19/2012 13:00

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

3201 Jermantown Road

Reported: 05/03/2012 14:22

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H0210 SDG#: PH002-10EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.329 U	0.329	2.08	1
10915	12378-PeCDD	40321-76-4	0.347 U	0.347	10.4	1
10915	123478-HxCDD	39227-28-6	0.380 JBQ	0.256	10.4	1
10915	123678-HxCDD	57653-85-7	0.630 JBQ	0.282	10.4	1
10915	123789-HxCDD	19408-74-3	0.721 JB	0.259	10.4	1
10915	1234678-HpCDD	35822-46-9	3.88 JB	0.336	10.4	1
10915	OCDD	3268-87-9	7.86 JB	0.461	20.8	1
10915	2378-TCDF	51207-31-9	0.257 JB	0.240	2.08	1
10915	12378-PeCDF	57117-41-6	0.246 U	0.246	10.4	1
10915	23478-PeCDF	57117-31-4	0.264 JBQ	0.223	10.4	1
10915	123478-HxCDF	70648-26-9	0.666 JB	0.177	10.4	1
10915	123678-HxCDF	57117-44-9	0.716 JB	0.169	10.4	1
10915	123789-HxCDF	72918-21-9	0.159 JB	0.159	10.4	1
10915	234678-HxCDF	60851-34-5	0.484 JB	0.153	10.4	1
10915	1234678-HpCDF	67562-39-4	0.987 JBQ	0.172	10.4	1
10915	1234789-HpCDF	55673-89-7	0.322 JB	0.180	10.4	1
10915	OCDF	39001-02-0	1.10 JB	0.314	20.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	61	28 - 130
13C12-123789-HxCDD	62	28 - 130
13C12-1234678-HpCDD	58	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	57	24 - 185
13C12-23478-PeCDF	58	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	57	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	54	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	51	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB-041912 Water  
SSFL Phase 3 Soil Sampling  
EB

LLI Sample # WW 6624294  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 13:00

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

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Reported: 05/03/2012 14:22

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H0210 SDG#: PH002-10EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	12121001	05/02/2012 16:03	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12121001	04/30/2012 10:30	Ginelle L Haines	1

**Sample Description:** SL-513-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-513-SA5C-SB

LLI Sample # SW 6624295  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 10:50

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

3201 Jermantown Road

Reported: 05/03/2012 14:22

Suite 400

Fairfax VA 22030

H0211 SDG#: PH002-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-513-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-513-SA5C-SB

LLI Sample # SW 6624295  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 10:50

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

3201 Jermantown Road

Reported: 05/03/2012 14:22

Suite 400

Fairfax VA 22030

H0211 SDG#: PH002-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0890	J	0.0198	1.15	1
11031	12378-PeCDD	40321-76-4	0.498	JB	0.0354	5.74	1
11031	123478-HxCDD	39227-28-6	0.872	JB	0.0318	5.74	1
11031	123678-HxCDD	57653-85-7	3.12	JB	0.0300	5.74	1
11031	123789-HxCDD	19408-74-3	2.41	JB	0.0326	5.74	1
11031	1234678-HpCDD	35822-46-9	69.7	B	0.0643	5.74	1
11031	OCDD	3268-87-9	883	B	0.0384	11.5	1
11031	2378-TCDF	51207-31-9	0.362	JB	0.0651	1.15	1
11031	12378-PeCDF	57117-41-6	1.19	JB	0.0455	5.74	1
11031	23478-PeCDF	57117-31-4	0.937	JB	0.0406	5.74	1
11031	123478-HxCDF	70648-26-9	0.816	JB	0.0263	5.74	1
11031	123678-HxCDF	57117-44-9	0.610	JB	0.0256	5.74	1
11031	123789-HxCDF	72918-21-9	0.989	JB	0.0252	5.74	1
11031	234678-HxCDF	60851-34-5	0.725	JB	0.0252	5.74	1
11031	1234678-HpCDF	67562-39-4	9.01	B	0.0262	5.74	1
11031	1234789-HpCDF	55673-89-7	0.630	JB	0.0301	5.74	1
11031	OCDF	39001-02-0	23.7	B	0.0185	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	97	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	70	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-513-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-513-SA5C-SB

LLI Sample # SW 6624295  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 10:50

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

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H0211 SDG#: PH002-11

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-513-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-513-SA5C-SB

LLI Sample # SW 6624295  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 10:50

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

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H0211 SDG#: PH002-11

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 14:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12117162401B	04/26/2012 12:36	William C Schwebel	1

**Sample Description:** SL-515-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-515-SA5C-SB

LLI Sample # SW 6624296  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 10:10

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Submitted: 04/20/2012 09:15

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H0212 SDG#: PH002-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-515-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-515-SA5C-SB

LLI Sample # SW 6624296  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 10:10

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H0212 SDG#: PH002-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0538	J	0.0181	1.10	1
11031	12378-PeCDD	40321-76-4	0.363	JB	0.0346	5.51	1
11031	123478-HxCDD	39227-28-6	0.438	JB	0.0302	5.51	1
11031	123678-HxCDD	57653-85-7	1.66	JB	0.0276	5.51	1
11031	123789-HxCDD	19408-74-3	1.75	JB	0.0268	5.51	1
11031	1234678-HpCDD	35822-46-9	31.1	B	0.0454	5.51	1
11031	OCDD	3268-87-9	466	B	0.0290	11.0	1
11031	2378-TCDF	51207-31-9	0.539	JB	0.0901	1.10	1
11031	12378-PeCDF	57117-41-6	3.67	JB	0.0492	5.51	1
11031	23478-PeCDF	57117-31-4	0.577	JB	0.0492	5.51	1
11031	123478-HxCDF	70648-26-9	1.19	JB	0.0388	5.51	1
11031	123678-HxCDF	57117-44-9	0.372	JB	0.0353	5.51	1
11031	123789-HxCDF	72918-21-9	1.24	JB	0.0389	5.51	1
11031	234678-HxCDF	60851-34-5	0.452	JB	0.0360	5.51	1
11031	1234678-HpCDF	67562-39-4	3.77	JB	0.0182	5.51	1
11031	1234789-HpCDF	55673-89-7	0.416	JB	0.0282	5.51	1
11031	OCDF	39001-02-0	9.52	JB	0.0206	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	56	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-515-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-515-SA5C-SB

**LLI Sample #** SW 6624296  
**LLI Group #** 1303748  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 10:10

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H0212 SDG#: PH002-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-515-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-515-SA5C-SB

LLI Sample # SW 6624296  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 10:10

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Submitted: 04/20/2012 09:15

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H0212 SDG#: PH002-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 15:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12117162401B	04/26/2012 12:36	William C Schwebel	1

**Sample Description:** SL-516-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-516-SA5C-SB

LLI Sample # SW 6624297  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 09:15

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Submitted: 04/20/2012 09:15

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H0213 SDG#: PH002-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	14.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-516-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-516-SA5C-SB

LLI Sample # SW 6624297  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 09:15

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Submitted: 04/20/2012 09:15

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H0213 SDG#: PH002-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>			
			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	7.68	0.172	1.15	1
11031	12378-PeCDD	40321-76-4	49.6 B	0.232	5.75	1
11031	123478-HxCDD	39227-28-6	113 B	0.317	5.75	1
11031	123678-HxCDD	57653-85-7	663 B	0.285	5.75	1
11031	123789-HxCDD	19408-74-3	255 B	0.293	5.75	1
11031	1234678-HpCDD	35822-46-9	16,800 EB	0.440	5.75	1
11031	OCDD	3268-87-9	105,000 EB	1.12	115	10
11031	2378-TCDF	51207-31-9	2.34 BC	0.177	1.15	1
11031	12378-PeCDF	57117-41-6	8.17 B	0.106	5.75	1
11031	23478-PeCDF	57117-31-4	11.4 B	0.0982	5.75	1
11031	123478-HxCDF	70648-26-9	38.3 B	0.177	5.75	1
11031	123678-HxCDF	57117-44-9	33.5 B	0.185	5.75	1
11031	123789-HxCDF	72918-21-9	0.174 U	0.174	5.75	1
11031	234678-HxCDF	60851-34-5	71.6 B	0.174	5.75	1
11031	1234678-HpCDF	67562-39-4	1,350 B	0.172	5.75	1
11031	1234789-HpCDF	55673-89-7	126 B	0.194	5.75	1
11031	OCDF	39001-02-0	2,380 B	0.0881	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	72	17 - 157

**Dioxins/Furans Data Qualifiers:**

*B* Detected in Method Blank

*U* Undetected

*J* Estimated concentration between Estimated Detection Limit and Minimum Level

*E* Exceeds calibration range

*C* Confirmed quantitation on secondary GC column

*Q* EMPC - Estimated Maximum Possible Concentration

**Sample Description:** SL-516-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-516-SA5C-SB

LLI Sample # SW 6624297  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 09:15

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Submitted: 04/20/2012 09:15

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H0213 SDG#: PH002-13

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

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**Sample Description:** SL-516-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-516-SA5C-SB

LLI Sample # SW 6624297  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 09:15

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Submitted: 04/20/2012 09:15

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Reported: 05/03/2012 14:22

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H0213 SDG#: PH002-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 16:05	Joseph D Anderson	1
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	05/02/2012 02:37	Joseph D Anderson	10
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12117162401B	04/26/2012 12:36	William C Schwebel	1

**Sample Description:** SL-516-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-516-SA5C-SB

LLI Sample # SW 6624298  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 09:40

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

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H0214 SDG#: PH002-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-516-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-516-SA5C-SB

LLI Sample # SW 6624298  
LLI Group # 1303748  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/19/2012 09:40

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

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Reported: 05/03/2012 14:22

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H0214 SDG#: PH002-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.900	J 0.0971	1.14	1
11031	12378-PeCDD	40321-76-4	4.60	JB 0.121	5.70	1
11031	123478-HxCDD	39227-28-6	7.58	B 0.0978	5.70	1
11031	123678-HxCDD	57653-85-7	40.8	B 0.104	5.70	1
11031	123789-HxCDD	19408-74-3	16.1	B 0.0956	5.70	1
11031	1234678-HpCDD	35822-46-9	927	B 0.159	5.70	1
11031	OCDD	3268-87-9	6,990	EB 0.0967	11.4	1
11031	2378-TCDF	51207-31-9	0.281	JB 0.0630	1.14	1
11031	12378-PeCDF	57117-41-6	0.964	JB 0.0381	5.70	1
11031	23478-PeCDF	57117-31-4	1.03	JB 0.0379	5.70	1
11031	123478-HxCDF	70648-26-9	2.76	JB 0.0700	5.70	1
11031	123678-HxCDF	57117-44-9	2.66	JB 0.0642	5.70	1
11031	123789-HxCDF	72918-21-9	0.813	JB 0.0729	5.70	1
11031	234678-HxCDF	60851-34-5	5.01	JB 0.0676	5.70	1
11031	1234678-HpCDF	67562-39-4	81.0	B 0.0518	5.70	1
11031	1234789-HpCDF	55673-89-7	8.46	B 0.0728	5.70	1
11031	OCDF	39001-02-0	175	B 0.0437	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	104	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	104	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	61	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-516-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-516-SA5C-SB

LLI Sample # SW 6624298  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 09:40

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Submitted: 04/20/2012 09:15

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H0214 SDG#: PH002-14

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-516-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-516-SA5C-SB

LLI Sample # SW 6624298  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 09:40

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Submitted: 04/20/2012 09:15

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H0214 SDG#: PH002-14

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 20:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12117162401B	04/26/2012 12:36	William C Schwebel	1

**Sample Description:** SL-575-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-575-SA5C-SB

LLI Sample # SW 6624299  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 11:15

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Submitted: 04/20/2012 09:15

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H0215 SDG#: PH002-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-575-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-575-SA5C-SB

LLI Sample # SW 6624299  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 11:15

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

3201 Jermantown Road

Reported: 05/03/2012 14:22

Suite 400

Fairfax VA 22030

H0215 SDG#: PH002-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			<b>ng/kg</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.105	J	0.0242	1.15	1
11031	12378-PeCDD	40321-76-4	0.592	JB	0.0519	5.73	1
11031	123478-HxCDD	39227-28-6	0.792	JB	0.0484	5.73	1
11031	123678-HxCDD	57653-85-7	3.82	JB	0.0446	5.73	1
11031	123789-HxCDD	19408-74-3	2.75	JB	0.0479	5.73	1
11031	1234678-HpCDD	35822-46-9	85.6	B	0.0999	5.73	1
11031	OCDD	3268-87-9	1,570	B	0.0605	11.5	1
11031	2378-TCDF	51207-31-9	0.885	JB	0.151	1.15	1
11031	12378-PeCDF	57117-41-6	5.52	JB	0.0778	5.73	1
11031	23478-PeCDF	57117-31-4	1.42	JB	0.0825	5.73	1
11031	123478-HxCDF	70648-26-9	2.85	JB	0.0639	5.73	1
11031	123678-HxCDF	57117-44-9	0.697	JB	0.0598	5.73	1
11031	123789-HxCDF	72918-21-9	1.31	JB	0.0676	5.73	1
11031	234678-HxCDF	60851-34-5	0.676	JB	0.0595	5.73	1
11031	1234678-HpCDF	67562-39-4	8.20	B	0.0482	5.73	1
11031	1234789-HpCDF	55673-89-7	0.753	JB	0.0711	5.73	1
11031	OCDF	39001-02-0	24.7	B	0.0254	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	55	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-575-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-575-SA5C-SB

LLI Sample # SW 6624299  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 11:15

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

3201 Jermantown Road

Reported: 05/03/2012 14:22

Suite 400

Fairfax VA 22030

H0215 SDG#: PH002-15

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-575-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-575-SA5C-SB

LLI Sample # SW 6624299  
LLI Group # 1303748  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 11:15

CDM Federal Programs Corp.

Submitted: 04/20/2012 09:15

3201 Jermantown Road

Reported: 05/03/2012 14:22

Suite 400

Fairfax VA 22030

H0215 SDG#: PH002-15

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 21:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12117162401B	04/26/2012 12:36	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/03/12 at 02:22 PM

Group Number: 1303748

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12117162401B	Sample number(s): 6624292-6624293, 6624295-6624299								
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12117001	Sample number(s): 6624292-6624293, 6624295-6624299								
2378-TCDD	0.0167	U	0.0167	1.00	ng/kg	101	67-158		
12378-PeCDD	0.0153	J	0.0135	5.00	ng/kg	96	70-142		
123478-HxCDD	0.0226	J	0.0127	5.00	ng/kg	91	70-164		
123678-HxCDD	0.0346	J	0.0137	5.00	ng/kg	93	76-134		
123789-HxCDD	0.0282	J	0.0130	5.00	ng/kg	95	64-162		
1234678-HpCDD	0.271	J	0.0170	5.00	ng/kg	95	70-140		
OCDD	0.445	J	0.0168	10.0	ng/kg	92	78-144		
2378-TCDF	0.0206	J	0.0135	1.00	ng/kg	92	75-158		
12378-PeCDF	0.0223	J	0.0102	5.00	ng/kg	93	80-134		
23478-PeCDF	0.0520	J	0.0101	5.00	ng/kg	88	68-160		
123478-HxCDF	0.0424	J	0.00860	5.00	ng/kg	96	72-134		
123678-HxCDF	0.0309	J	0.00750	5.00	ng/kg	96	84-130		
123789-HxCDF	0.0201	J	0.00890	5.00	ng/kg	97	78-130		
234678-HxCDF	0.0334	J	0.00830	5.00	ng/kg	93	70-156		
1234678-HpCDF	0.0949	J	0.00840	5.00	ng/kg	89	82-122		
1234789-HpCDF	0.0348	J	0.0138	5.00	ng/kg	92	78-138		
OCDF	0.111	J	0.0177	10.0	ng/kg	93	63-170		

Batch number: 12121001	Sample number(s): 6624294								
2378-TCDD	0.270	J	0.263	2.00	pg/l	93	67-158		
12378-PeCDD	0.409	J	0.243	10.0	pg/l	96	70-142		
123478-HxCDD	0.408	J	0.198	10.0	pg/l	91	70-164		
123678-HxCDD	0.426	J	0.209	10.0	pg/l	92	76-134		
123789-HxCDD	0.506	J	0.194	10.0	pg/l	98	64-162		
1234678-HpCDD	3.29	J	0.253	10.0	pg/l	97	70-140		
OCDD	6.72	J	0.337	20.0	pg/l	95	78-144		
2378-TCDF	0.288	J	0.180	2.00	pg/l	88	75-158		
12378-PeCDF	0.185	U	0.185	10.0	pg/l	94	80-134		
23478-PeCDF	0.690	J	0.159	10.0	pg/l	91	68-160		
123478-HxCDF	0.479	J	0.128	10.0	pg/l	97	72-134		
123678-HxCDF	0.378	J	0.123	10.0	pg/l	97	84-130		
123789-HxCDF	0.336	J	0.127	10.0	pg/l	96	78-130		
234678-HxCDF	0.468	J	0.117	10.0	pg/l	93	70-156		
1234678-HpCDF	0.720	J	0.119	10.0	pg/l	91	82-122		
1234789-HpCDF	0.566	J	0.141	10.0	pg/l	95	78-138		
OCDF	1.02	J	0.197	20.0	pg/l	97	63-170		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/03/12 at 02:22 PM

Group Number: 1303748

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12117162401B	Sample number(s): 6624292-6624293,6624295-6624299					BKG: 6624298			
Moisture Content by 160.3						13.3	14.0	5	20
Moisture Content by 160.3						13.3	14.0	5	20
Batch number: 12117001	Sample number(s): 6624292-6624293,6624295-6624299					UNSPK: P625134			
2378-TCDD	104	101	67-158	5	25				
12378-PeCDD	100	98	70-142	4	25				
123478-HxCDD	96	95	70-164	3	25				
123678-HxCDD	108	104	76-134	6	25				
123789-HxCDD	109	107	64-162	4	25				
1234678-HpCDD	476*	340*	70-140	27*	25				
OCDD	4283	2190	78-144	46*	25				
	(2)	(2)							
2378-TCDF	93	93	75-158	2	25				
12378-PeCDF	96	94	80-134	4	25				
23478-PeCDF	91	88	68-160	6	25				
123478-HxCDF	97	97	72-134	2	25				
123678-HxCDF	94	98	84-130	1	25				
123789-HxCDF	97	99	78-130	1	25				
234678-HxCDF	93	94	70-156	2	25				
1234678-HpCDF	114	107	82-122	8	25				
1234789-HpCDF	95	96	78-138	1	25				
OCDF	135	120	63-170	13	25				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B

Batch number: 12117001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6624292	79	71	72	76	71	73
6624293	78	71	71	74	72	76
6624295	80	76	76	76	76	81
6624296	78	70	68	73	68	69
6624297	80	78	78	75	75	83
6624298	83	95	72	74	71	71
6624299	74	67	64	67	66	63
Blank	80	72	71	78	72	71
MS	83	75	75	82	76	74
MSD	79	73	70	74	70	72
OPR	71	65	67	73	69	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/03/12 at 02:22 PM

Group Number: 1303748

### Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6624292	78	65	62	75	83	87
6624293	80	64	61	76	83	91
6624295	77	73	70	79	92	97
6624296	83	60	56	77	81	91
6624297	78	72	72	80	85	94
6624298	83	66	61	104	80	81
6624299	74	57	55	75	78	84
Blank	90	63	57	81	86	85
MS	91	68	64	84	93	100
MSD	84	63	61	81	83	92
OPR	83	60	54	76	83	92

Limits: 28-143 26-138 17-157 25-181 32-141 28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6624292	82	77	75	72	74
6624293	94	77	71	70	75
6624295	87	80	76	79	77
6624296	90	77	72	69	77
6624297	91	89	96	78	78
6624298	80	82	79	74	104
6624299	77	71	69	68	73
Blank	85	82	73	70	80
MS	93	87	86	77	83
MSD	96	81	79	73	80
OPR	86	77	71	62	71

Limits: 28-130 23-140 17-157 24-169 24-185

Analysis Name: 10b Dioxin/Furan by EPA 1613B

Batch number: 12121001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6624294	70	58	58	57	63	64
Blank	83	80	75	76	79	79
OPR	75	73	75	75	78	80

Limits: 25-164 21-178 26-152 26-123 28-136 29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6624294	54	55	51	63	64	61
Blank	80	74	69	84	82	80
OPR	79	78	76	78	82	80

Limits: 28-143 26-138 17-157 25-181 32-141 28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6624294	62	58	53	62	57
Blank	82	78	73	74	76
OPR	80	82	80	68	74

Limits: 28-130 23-140 17-157 24-169 24-185

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

**Quality Control Summary**

Client Name: CDM Federal Programs Corp.  
Reported: 05/03/12 at 02:22 PM

Group Number: 1303748

**Surrogate Quality Control**

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1303748

Sample# 6624292-99  
**SSFL Phase 3 Chain of Custody**

CDM Smith  
 Date Shipped: 4/19/2012  
 Carrier Name: FedEx  
 Airbill No:

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120419-02  
 Cooler #:   
 Lab: Lancaster Laboratories, Inc.  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Organoph	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Emeralds 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	pH 9045 (Water)	Perrchlorate Confirm 6850/6860	Perrchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes			
SL-579-SASC-SB-0.0-0.5	4/18/12 14:04	SO	None	1 - SS-Sleeve	10 day				X																														
SL-579-SASC-SB-4.0-5.0	4/18/12 14:30	SO	None	1 - SS-Sleeve	10 day				X																														
EB-041912	4/19/12 13:00	WQ	None	1 - 250 mL Amber	10 day				X																														
EB-041912	4/19/12 13:00	WQ	None	1 - 1 L Amber	10 day				X																														
SL-513-SASC-SB-0.0-0.5	4/19/12 10:50	SO	None	1 - SS-Sleeve	10 day																																		
SL-515-SASC-SB-0.0-0.5	4/19/12 10:10	SO	None	1 - SS-Sleeve	10 day																																		
SL-516-SASC-SB-0.0-0.5	4/19/12 09:15	SO	None	1 - SS-Sleeve	10 day																																		
SL-516-SASC-SB-4.0-5.0	4/19/12 09:40	SO	None	1 - SS-Sleeve	10 day																																		
SL-575-SASC-SB-0.0-0.5	4/19/12 11:15	SO	None	1 - SS-Sleeve	10 day																																		

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time

The signed field COC was not received. The samples were entered per the pre-entry COC emailed on 4/19/12 at 19:18.

NLM 4/25/12

Nicole Maljovec

---

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]  
**Sent:** Thursday, April 19, 2012 7:18 PM  
**To:** Nicole Maljovec; Burgess, Todd  
**Subject:** SSFL COC 4/19/12

**Attachments:** Lancaster 041912 COC.pdf; COC\_LLI\_04\_19\_12.xlsx



Lancaster 041912 COC\_LLI\_04\_19\_12  
COC.pdf (99 K... .xlsx (22 KB)

Nicole

We are shipping one cooler with Phase 1, Phase 3 soil samples and the Phase 3 EB.

Thanks!

Pam

Pamela Hartman  
CDM Smith  
523 West Sixth Street Suite 400  
Los Angeles, CA 90014  
818 466 8007 (Santa Susana Field Site)  
714 900 0916 (Cell)

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

April 30, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 04/21/2012  
Group Number: 1303879  
SDG: PT003  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

Client Sample Description

SL-501-SA5C-SB-0.0-0.5 Soil

Lancaster Labs (LLI) #

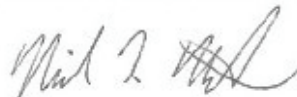
6625129

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
1 COPY TO CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259



Lancaster  
Laboratories

# ***Analysis Report***

---

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

**Sample Description:** SL-501-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-501-SA5C-SB

LLI Sample # SW 6625129  
LLI Group # 1303879  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 09:30

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 04/30/2012 17:59

Suite 400

Fairfax VA 22030

FO501 SDG#: PT003-01\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,300	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121150001A	04/27/2012 00:29	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121150001A	04/24/2012 14:15	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401B	04/24/2012 12:21	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 04/30/12 at 05:59 PM

Group Number: 1303879

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121150001A 20a Formaldehyde 8315A	Sample number(s): 6625129 1,200 J	1,200.	3,000	ug/kg	105		80-126		
Batch number: 12115162401B Moisture Content by 160.3	Sample number(s): 6625129				100		80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121150001A 20a Formaldehyde 8315A	Sample number(s): 6625129 97	101	80-120	4	50	UNSPK: P622588			
Batch number: 12115162401B Moisture Content by 160.3	Sample number(s): 6625129					BKG: P622590	8.2	8.3	1

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121150001A  
Butyraldehyde

6625129	96
Blank	107
LCS	100
MS	100
MSD	103

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 01, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 04/21/2012  
Group Number: 1303880  
SDG: PH002  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

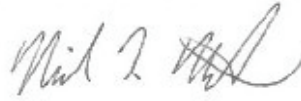
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-510-SA5C-SB-0.0-0.5 Soil	6625130
SL-518-SA5C-SB-0.0-0.5 Soil	6625131
SL-517-SA5C-SB-0.0-0.5 Soil	6625132
SL-501-SA5C-SB-0.0-0.5 Soil	6625133
SL-502-SA5C-SB-0.0-0.5 Soil	6625134
SL-502-SA5C-SB-0.0-0.5 MS Soil	6625135
SL-502-SA5C-SB-0.0-0.5 MSD Soil	6625136
SL-802-SA5C-SB-0.0-0.5 Soil	6625137

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
ELECTRONIC COPY TO  
CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-510-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-510-SA5C-SB

LLI Sample # SW 6625130  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 14:35

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL510 SDG#: PH002-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-510-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-510-SA5C-SB

LLI Sample # SW 6625130  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 14:35

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL510 SDG#: PH002-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>			
			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	1.56	0.0370	1.18	1
11031	12378-PeCDD	40321-76-4	12.3	0.0840	5.88	1
			B			
11031	123478-HxCDD	39227-28-6	25.3	0.134	5.88	1
			B			
11031	123678-HxCDD	57653-85-7	70.8	0.125	5.88	1
			B			
11031	123789-HxCDD	19408-74-3	49.3	0.118	5.88	1
			B			
11031	1234678-HpCDD	35822-46-9	1,640	0.271	5.88	1
			B			
11031	OCDD	3268-87-9	27,500	0.170	11.8	1
			EB			
11031	2378-TCDF	51207-31-9	0.509	0.0753	1.18	1
			JB			
11031	12378-PeCDF	57117-41-6	1.59	0.0462	5.88	1
			JB			
11031	23478-PeCDF	57117-31-4	1.06	0.0427	5.88	1
			JB			
11031	123478-HxCDF	70648-26-9	4.90	0.0806	5.88	1
			JB			
11031	123678-HxCDF	57117-44-9	3.24	0.0766	5.88	1
			JB			
11031	123789-HxCDF	72918-21-9	1.56	0.0798	5.88	1
			JB			
11031	234678-HxCDF	60851-34-5	6.33	0.0806	5.88	1
			B			
11031	1234678-HpCDF	67562-39-4	124	0.0759	5.88	1
			B			
11031	1234789-HpCDF	55673-89-7	10.6	0.0983	5.88	1
			B			
11031	OCDF	39001-02-0	389	0.0438	11.8	1
			B			

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	105	28 - 130
13C12-123789-HxCDD	106	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	87	29 - 147

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-510-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-510-SA5C-SB

LLI Sample # SW 6625130  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 14:35

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL510 SDG#: PH002-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Labeled Compounds</b>						
	%Rec	Windows				
	13C12-1234678-HpCDF	88	28 - 143			
	13C12-1234789-HpCDF	75	26 - 138			
	13C12-OCDF	74	17 - 157			

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present
- S* Saturation of detection signal

**Sample Description:** SL-510-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-510-SA5C-SB

LLI Sample # SW 6625130  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 14:35

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL510 SDG#: PH002-16

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 21:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401A	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-518-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-518-SA5C-SB

LLI Sample # SW 6625131  
 LLI Group # 1303880  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 14:00

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL518 SDG#: PH002-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-518-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-518-SA5C-SB

LLI Sample # SW 6625131  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 14:00

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL518 SDG#: PH002-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			<b>ng/kg</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.111	J	0.0183	1.02	1
11031	12378-PeCDD	40321-76-4	0.619	JB	0.0297	5.08	1
11031	123478-HxCDD	39227-28-6	0.865	JB	0.0347	5.08	1
11031	123678-HxCDD	57653-85-7	5.19	B	0.0314	5.08	1
11031	123789-HxCDD	19408-74-3	3.25	JB	0.0314	5.08	1
11031	1234678-HpCDD	35822-46-9	136	B	0.100	5.08	1
11031	OCDD	3268-87-9	2,970	B	0.0616	10.2	1
11031	2378-TCDF	51207-31-9	0.313	JB	0.0520	1.02	1
11031	12378-PeCDF	57117-41-6	0.621	JB	0.0304	5.08	1
11031	23478-PeCDF	57117-31-4	0.756	JB	0.0283	5.08	1
11031	123478-HxCDF	70648-26-9	0.726	JB	0.0233	5.08	1
11031	123678-HxCDF	57117-44-9	0.417	JB	0.0230	5.08	1
11031	123789-HxCDF	72918-21-9	1.85	JB	0.0235	5.08	1
11031	234678-HxCDF	60851-34-5	0.559	JB	0.0228	5.08	1
11031	1234678-HpCDF	67562-39-4	9.59	B	0.0274	5.08	1
11031	1234789-HpCDF	55673-89-7	0.520	JB	0.0332	5.08	1
11031	OCDF	39001-02-0	47.4	B	0.0232	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	102	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	68	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-518-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-518-SA5C-SB

LLI Sample # SW 6625131  
 LLI Group # 1303880  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 14:00

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL518 SDG#: PH002-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-518-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-518-SA5C-SB

LLI Sample # SW 6625131  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 14:00

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL518 SDG#: PH002-17

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 22:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401A	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-517-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-517-SA5C-SB

LLI Sample # SW 6625132  
 LLI Group # 1303880  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 15:00

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL517 SDG#: PH002-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-517-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-517-SA5C-SB

LLI Sample # SW 6625132  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 15:00

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL517 SDG#: PH002-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>			
			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	1.91	0.0411	1.15	1
11031	12378-PeCDD	40321-76-4	16.9	0.0510	5.73	1
			B			
11031	123478-HxCDD	39227-28-6	29.3	0.0643	5.73	1
			B			
11031	123678-HxCDD	57653-85-7	63.7	0.0607	5.73	1
			B			
11031	123789-HxCDD	19408-74-3	55.7	0.0598	5.73	1
			B			
11031	1234678-HpCDD	35822-46-9	1,440	0.218	5.73	1
			B			
11031	OCDD	3268-87-9	32,500	0.177	11.5	1
			EB			
11031	2378-TCDF	51207-31-9	0.425	0.0506	1.15	1
			JB			
11031	12378-PeCDF	57117-41-6	1.19	0.0366	5.73	1
			JB			
11031	23478-PeCDF	57117-31-4	1.53	0.0350	5.73	1
			JB			
11031	123478-HxCDF	70648-26-9	5.64	0.0439	5.73	1
			JB			
11031	123678-HxCDF	57117-44-9	2.21	0.0425	5.73	1
			JB			
11031	123789-HxCDF	72918-21-9	1.60	0.0433	5.73	1
			JB			
11031	234678-HxCDF	60851-34-5	2.90	0.0432	5.73	1
			JB			
11031	1234678-HpCDF	67562-39-4	79.3	0.0535	5.73	1
			B			
11031	1234789-HpCDF	55673-89-7	4.21	0.0642	5.73	1
			JB			
11031	OCDF	39001-02-0	345	0.0404	11.5	1
			B			

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	96	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	85	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	79	29 - 147

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-517-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-517-SA5C-SB

LLI Sample # SW 6625132  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 15:00

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

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SL517 SDG#: PH002-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Labeled Compounds</b>						
	%Rec	Windows				
	13C12-1234678-HpCDF	76	28 - 143			
	13C12-1234789-HpCDF	70	26 - 138			
	13C12-OCDF	67	17 - 157			

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present
- S* Saturation of detection signal

**Sample Description:** SL-517-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-517-SA5C-SB

LLI Sample # SW 6625132  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/19/2012 15:00

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

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Reported: 05/01/2012 09:45

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SL517 SDG#: PH002-18

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/28/2012 23:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401A	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-501-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-501-SA5C-SB

LLI Sample # SW 6625133  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 09:30

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

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Reported: 05/01/2012 09:45

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SL501 SDG#: PH002-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture Content by 160.3	n.a.	8.9	0.50	0.50	1

**Sample Description:** SL-501-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-501-SA5C-SB

LLI Sample # SW 6625133  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 09:30

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

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Reported: 05/01/2012 09:45

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SL501 SDG#: PH002-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.288	J 0.0543	1.08	1
11031	12378-PeCDD	40321-76-4	2.69	JB 0.106	5.42	1
11031	123478-HxCDD	39227-28-6	5.95	B 0.0992	5.42	1
11031	123678-HxCDD	57653-85-7	27.1	B 0.0955	5.42	1
11031	123789-HxCDD	19408-74-3	13.5	B 0.0941	5.42	1
11031	1234678-HpCDD	35822-46-9	645	B 0.162	5.42	1
11031	OCDD	3268-87-9	6,870	EB 0.0881	10.8	1
11031	2378-TCDF	51207-31-9	0.940	JB 0.128	1.08	1
11031	12378-PeCDF	57117-41-6	1.66	JB 0.0577	5.42	1
11031	23478-PeCDF	57117-31-4	1.15	JB 0.0571	5.42	1
11031	123478-HxCDF	70648-26-9	3.53	JB 0.0746	5.42	1
11031	123678-HxCDF	57117-44-9	3.46	JB 0.0666	5.42	1
11031	123789-HxCDF	72918-21-9	1.04	JB 0.0749	5.42	1
11031	234678-HxCDF	60851-34-5	5.48	B 0.0696	5.42	1
11031	1234678-HpCDF	67562-39-4	72.4	B 0.0474	5.42	1
11031	1234789-HpCDF	55673-89-7	11.3	B 0.0723	5.42	1
11031	OCDF	39001-02-0	178	B 0.0396	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	57	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-501-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-501-SA5C-SB

LLI Sample # SW 6625133  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 09:30

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

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Reported: 05/01/2012 09:45

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SL501 SDG#: PH002-19

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-501-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-501-SA5C-SB

LLI Sample # SW 6625133  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 09:30

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL501 SDG#: PH002-19

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/29/2012 00:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12115162401B	04/24/2012 12:21	William C Schwebel	1

**Sample Description:** SL-502-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6625134  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:50

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

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SL502 SDG#: PH002-20BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	16.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-502-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6625134  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:50

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

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Reported: 05/01/2012 09:45

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SL502 SDG#: PH002-20BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.136	J	0.0226	1.18	1
11031	12378-PeCDD	40321-76-4	1.05	JB	0.0380	5.89	1
11031	123478-HxCDD	39227-28-6	1.84	JB	0.0365	5.89	1
11031	123678-HxCDD	57653-85-7	5.53	JB	0.0329	5.89	1
11031	123789-HxCDD	19408-74-3	4.31	JB	0.0359	5.89	1
11031	1234678-HpCDD	35822-46-9	149	B	0.100	5.89	1
11031	OCDD	3268-87-9	3,350	B	0.0847	11.8	1
11031	2378-TCDF	51207-31-9	0.133	JB	0.0382	1.18	1
11031	12378-PeCDF	57117-41-6	0.306	JB	0.0239	5.89	1
11031	23478-PeCDF	57117-31-4	0.256	JB	0.0250	5.89	1
11031	123478-HxCDF	70648-26-9	0.777	JB	0.0323	5.89	1
11031	123678-HxCDF	57117-44-9	0.375	JB	0.0270	5.89	1
11031	123789-HxCDF	72918-21-9	0.519	JB	0.0359	5.89	1
11031	234678-HxCDF	60851-34-5	0.526	JB	0.0295	5.89	1
11031	1234678-HpCDF	67562-39-4	9.95	B	0.0285	5.89	1
11031	1234789-HpCDF	55673-89-7	0.723	JB	0.0547	5.89	1
11031	OCDF	39001-02-0	31.3	B	0.0327	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	71	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	47	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-502-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6625134  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:50

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

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Reported: 05/01/2012 09:45

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SL502 SDG#: PH002-20BKG

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-502-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6625134  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:50

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

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SL502 SDG#: PH002-20BKG

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/29/2012 01:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401A	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-502-SA5C-SB-0.0-0.5 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-502-SA5C-SB

LLI Sample # SW 6625135  
 LLI Group # 1303880  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:50

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL502 SDG#: PH002-20MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture Content by 160.3	n.a.	16.4	0.50	0.50	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-502-SA5C-SB-0.0-0.5 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6625135  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:50

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL502 SDG#: PH002-20MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>			
			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	24.7	0.0490	1.19	1
11031	12378-PeCDD	40321-76-4	119 B	0.0779	5.93	1
11031	123478-HxCDD	39227-28-6	116 B	0.0889	5.93	1
11031	123678-HxCDD	57653-85-7	133 B	0.0864	5.93	1
11031	123789-HxCDD	19408-74-3	133 B	0.0873	5.93	1
11031	1234678-HpCDD	35822-46-9	714 B	0.173	5.93	1
11031	OCDD	3268-87-9	13,500 EB	0.128	11.9	1
11031	2378-TCDF	51207-31-9	22.2 B	0.0895	1.19	1
11031	12378-PeCDF	57117-41-6	114 B	0.0555	5.93	1
11031	23478-PeCDF	57117-31-4	109 B	0.0569	5.93	1
11031	123478-HxCDF	70648-26-9	115 B	0.0762	5.93	1
11031	123678-HxCDF	57117-44-9	112 B	0.0667	5.93	1
11031	123789-HxCDF	72918-21-9	115 B	0.0776	5.93	1
11031	234678-HxCDF	60851-34-5	111 B	0.0727	5.93	1
11031	1234678-HpCDF	67562-39-4	145 B	0.0465	5.93	1
11031	1234789-HpCDF	55673-89-7	114 B	0.0690	5.93	1
11031	OCDF	39001-02-0	352 B	0.0365	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	100	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	74	29 - 147

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-502-SA5C-SB-0.0-0.5 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6625135  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:50

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL502 SDG#: PH002-20MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Labeled Compounds</b>						
	%Rec	Windows				
	91	28 - 143				
	68	26 - 138				
	64	17 - 157				

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present
- S* Saturation of detection signal

**Sample Description:** SL-502-SA5C-SB-0.0-0.5 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6625135  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:50

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL502 SDG#: PH002-20MS

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/29/2012 02:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401A	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-502-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6625136  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:50

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL502 SDG#: PH002-20MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11626	28a Moisture Content by 160.3	n.a.	15.6	0.50	0.50	1
	The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.					
11625	Moisture Content by 160.3	n.a.	16.4	0.50	0.50	1

Sample Description: SL-502-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6625136  
LLI Group # 1303880  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/20/2012 08:50

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL502 SDG#: PH002-20MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
	<b>EPA 1613B</b>					
11031	2378-TCDD	1746-01-6	23.4	0.0456	1.16	1
11031	12378-PeCDD	40321-76-4	114	B 0.0720	5.78	1
11031	123478-HxCDD	39227-28-6	112	B 0.0955	5.78	1
11031	123678-HxCDD	57653-85-7	125	B 0.0898	5.78	1
11031	123789-HxCDD	19408-74-3	129	B 0.0813	5.78	1
11031	1234678-HpCDD	35822-46-9	543	B 0.148	5.78	1
11031	OCDD	3268-87-9	8,420	EB 0.113	11.6	1
11031	2378-TCDF	51207-31-9	21.7	B 0.0818	1.16	1
11031	12378-PeCDF	57117-41-6	109	B 0.0553	5.78	1
11031	23478-PeCDF	57117-31-4	102	B 0.0543	5.78	1
11031	123478-HxCDF	70648-26-9	113	B 0.0677	5.78	1
11031	123678-HxCDF	57117-44-9	113	B 0.0616	5.78	1
11031	123789-HxCDF	72918-21-9	115	B 0.0694	5.78	1
11031	234678-HxCDF	60851-34-5	109	B 0.0652	5.78	1
11031	1234678-HpCDF	67562-39-4	134	B 0.0434	5.78	1
11031	1234789-HpCDF	55673-89-7	112	B 0.0658	5.78	1
11031	OCDF	39001-02-0	310	B 0.0356	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	61	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-502-SA5C-SB-0.0-0.5 MSD Soil  
 SSFL Phase 3 Soil Sampling  
 SL-502-SA5C-SB

LLI Sample # SW 6625136  
 LLI Group # 1303880  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:50

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL502 SDG#: PH002-20MSD

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-502-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6625136  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:50

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL502 SDG#: PH002-20MSD

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/29/2012 03:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	12121162401A	04/30/2012 11:45	William C Schwebel	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401A	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-802-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-802-SA5C-SB

LLI Sample # SW 6625137  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:55

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL802 SDG#: PH002-21\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-802-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-802-SA5C-SB

LLI Sample # SW 6625137  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:55

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL802 SDG#: PH002-21\*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0297	J	0.0182	1.18	1
11031	12378-PeCDD	40321-76-4	0.144	JB	0.0205	5.89	1
11031	123478-HxCDD	39227-28-6	0.190	JB	0.0340	5.89	1
11031	123678-HxCDD	57653-85-7	0.477	JB	0.0310	5.89	1
11031	123789-HxCDD	19408-74-3	0.526	JB	0.0298	5.89	1
11031	1234678-HpCDD	35822-46-9	8.92	B	0.0403	5.89	1
11031	OCDD	3268-87-9	153	B	0.0299	11.8	1
11031	2378-TCDF	51207-31-9	0.0365	JB	0.0183	1.18	1
11031	12378-PeCDF	57117-41-6	0.102	JB	0.0154	5.89	1
11031	23478-PeCDF	57117-31-4	0.0986	JB	0.0148	5.89	1
11031	123478-HxCDF	70648-26-9	0.0894	JB	0.0238	5.89	1
11031	123678-HxCDF	57117-44-9	0.0555	JBQ	0.0214	5.89	1
11031	123789-HxCDF	72918-21-9	0.226	JB	0.0241	5.89	1
11031	234678-HxCDF	60851-34-5	0.0975	JB	0.0223	5.89	1
11031	1234678-HpCDF	67562-39-4	0.658	JB	0.0194	5.89	1
11031	1234789-HpCDF	55673-89-7	0.212	JB	0.0324	5.89	1
11031	OCDF	39001-02-0	1.72	JB	0.0265	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	53	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-802-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-802-SA5C-SB

LLI Sample # SW 6625137  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:55

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL802 SDG#: PH002-21\*

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-802-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-802-SA5C-SB

LLI Sample # SW 6625137  
LLI Group # 1303880  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 08:55

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/01/2012 09:45

Suite 400

Fairfax VA 22030

SL802 SDG#: PH002-21\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12117001	04/29/2012 04:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12117001	04/26/2012 13:50	Ginelle L Haines	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401A	04/30/2012 11:45	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/01/12 at 09:45 AM

Group Number: 1303880

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12115162401B Moisture Content by 160.3	Sample number(s): 6625133				100		80-120		
Batch number: 12121162401A 28a Moisture Content by 160.3	Sample number(s): 6625130-6625132,6625134-6625137				100		80-120		
Moisture Content by 160.3					100		80-120		
Moisture Content by 160.3					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12117001	Sample number(s): 6625130-6625137								
2378-TCDD	0.0167 U	0.0167	1.00	ng/kg	101		67-158		
12378-PeCDD	0.0153 J	0.0135	5.00	ng/kg	96		70-142		
123478-HxCDD	0.0226 J	0.0127	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0346 J	0.0137	5.00	ng/kg	93		76-134		
123789-HxCDD	0.0282 J	0.0130	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.271 J	0.0170	5.00	ng/kg	95		70-140		
OCDD	0.445 J	0.0168	10.0	ng/kg	92		78-144		
2378-TCDF	0.0206 J	0.0135	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0223 J	0.0102	5.00	ng/kg	93		80-134		
23478-PeCDF	0.0520 J	0.0101	5.00	ng/kg	88		68-160		
123478-HxCDF	0.0424 J	0.00860	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0309 J	0.00750	5.00	ng/kg	96		84-130		
123789-HxCDF	0.0201 J	0.00890	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0334 J	0.00830	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.0949 J	0.00840	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0348 J	0.0138	5.00	ng/kg	92		78-138		
OCDF	0.111 J	0.0177	10.0	ng/kg	93		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12115162401B Moisture Content by 160.3	Sample number(s): 6625133			BKG: P622590		8.2	8.3	1	20
Batch number: 12121162401A 28a Moisture Content by 160.3	Sample number(s): 6625130-6625132,6625134-6625137			BKG: 6625134		16.4	15.6	5	20

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/01/12 at 09:45 AM

Group Number: 1303880

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Moisture Content by 160.3						16.4	15.6	5	20
Moisture Content by 160.3						16.4	15.6	5	20

Batch number: 12117001	Sample number(s): 6625130-6625137 UNSPK: 6625134								
2378-TCDD	104	101	67-158	5	25				
12378-PeCDD	100	98	70-142	4	25				
123478-HxCDD	96	95	70-164	3	25				
123678-HxCDD	108	104	76-134	6	25				
123789-HxCDD	109	107	64-162	4	25				
1234678-HpCDD	476*	340*	70-140	27*	25				
OCDD	4283	2190	78-144	46*	25				
	(2)	(2)							
2378-TCDF	93	93	75-158	2	25				
12378-PeCDF	96	94	80-134	4	25				
23478-PeCDF	91	88	68-160	6	25				
123478-HxCDF	97	97	72-134	2	25				
123678-HxCDF	94	98	84-130	1	25				
123789-HxCDF	97	99	78-130	1	25				
234678-HxCDF	93	94	70-156	2	25				
1234678-HpCDF	114	107	82-122	8	25				
1234789-HpCDF	95	96	78-138	1	25				
OCDF	135	120	63-170	13	25				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a Dioxin/Furan by EPA 1613B  
Batch number: 12117001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6625130	91	82	83	84	81	87
6625131	90	82	79	80	78	84
6625132	80	73	75	75	74	79
6625133	74	72	70	75	70	70
6625134	68	62	60	71	62	56
6625135	83	75	75	82	76	74
6625136	79	73	70	74	70	72
6625137	75	68	69	74	70	68
Blank	80	72	71	78	72	71
MS	83	75	75	82	76	74
MSD	79	73	70	74	70	72
OPR	71	65	67	73	69	63
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6625130	88	75	74	88	95	105

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/01/12 at 09:45 AM

Group Number: 1303880

### Surrogate Quality Control

6625131	79	72	68	86	89	102
6625132	76	70	67	79	85	96
6625133	85	61	57	78	84	90
6625134	85	51	47	71	80	89
6625135	91	68	64	84	93	100
6625136	84	63	61	81	83	92
6625137	88	59	53	76	83	94
Blank	90	63	57	81	86	85
MS	91	68	64	84	93	100
MSD	84	63	61	81	83	92
OPR	83	60	54	76	83	92

Limits: 28-143      26-138      17-157      25-181      32-141      28-130

13C12-123789-HxCDD      13C12-1234678-HpCDD      13C12-OCDD      13C12-2378-TCDF      13C12-12378-PeCDF

6625130	106	88	95	82	86
6625131	95	80	77	85	82
6625132	92	82	85	76	77
6625133	88	78	75	71	80
6625134	82	74	71	59	70
6625135	93	87	86	77	83
6625136	96	81	79	73	80
6625137	95	78	71	67	74
Blank	85	82	73	70	80
MS	93	87	86	77	83
MSD	96	81	79	73	80
OPR	86	77	71	62	71

Limits: 28-130      23-140      17-157      24-169      24-185

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct# 13013

cup# 1303880

# sample# 6625130-37 SSFL Phase 3 Chain of Custody

CDM Smith  
Date Shipped: 4/20/2012  
Carrier Name: FedEx  
Airbill No: 7983 1085 3893

Contact Name: Pam Hartman  
Contact Phone: (818)466-8007

No: 20120420-02  
Cooler #:   
Lab: Lancaster Laboratories, Inc.  
Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Method Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Enthalpic 8330	Nitrates 300.0/9056	Terphenols 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-G80 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex C 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confim 6850/6960	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7471 (Soil)	Mercury 7471 and 6020	Other Analysis/Notes			
SL-510-SA5C-SB-0.0-0.5	4/19/12 14:35	SO	None	1 - 55-Sleeve	10 day																																		
SL-518-SA5C-SB-0.0-0.5	4/19/12 14:00	SO	None	1 - 55-Sleeve	10 day																																		
SL-517-SA5C-SB-0.0-0.5	4/19/12 15:00	SO	None	1 - 55-Sleeve	10 day																																		
SL-5D1-SA5C-SB-0.0-0.5	4/20/12 09:30	SO	None	1 - 55-Sleeve	10 day																																		
SL-5D2-SA5C-SB-0.0-0.5MS	4/20/12 08:50	SO	None	3 - 55-Sleeve	10 day																																		
SL-8D2-SA5C-SB-0.0-0.5	4/20/12 08:55	SO	None	1 - 55-Sleeve	10 day																																		
SL-5D7-SA5C-SB-0.0-0.5	4/20/12 10:45	SO	None	1 - 55-Sleeve	10 day																																		
SL-5D8-SA5C-SB-0.0-0.5	4/20/12 11:05	SO	None	1 - 55-Sleeve	10 day																																		
SL-5D9-SA5C-SB-0.0-0.5	4/20/12 10:05	SO	None	1 - 55-Sleeve	10 day																																		
SL-574-SA5C-SB-0.0-0.5	4/20/12 13:00	SO	None	1 - 55-Sleeve	10 day																																		

Special Instructions:						SAMPLES TRANSFERRED FROM					
						CHAIN OF CUSTODY #					
Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	4/20/12									
									<i>[Signature]</i>	4/20/12	1000

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 08, 2012

Project: SSFL Phase 3 Sampling

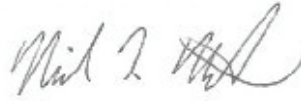
Submittal Date: 04/21/2012  
Group Number: 1303882  
SDG: PH003  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-507-SA5C-SB-0.0-0.5 Soil  
SL-508-SA5C-SB-0.0-0.5 Soil  
SL-509-SA5C-SB-0.0-0.5 Soil  
SL-574-SA5C-SB-0.0-0.5 SoilLancaster Labs (LLI) #6625140  
6625141  
6625142  
6625143

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
ELECTRONIC COPY TO  
CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-507-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-507-SA5C-SB

LLI Sample # SW 6625140  
LLI Group # 1303882  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 10:45

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL507 SDG#: PH003-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-507-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-507-SA5C-SB

LLI Sample # SW 6625140  
LLI Group # 1303882  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/20/2012 10:45

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL507 SDG#: PH003-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			<b>ng/kg</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0720	JB	0.0349	1.07	1
11031	12378-PeCDD	40321-76-4	0.321	J	0.0453	5.34	1
11031	123478-HxCDD	39227-28-6	0.343	JB	0.0644	5.34	1
11031	123678-HxCDD	57653-85-7	1.28	JB	0.0659	5.34	1
11031	123789-HxCDD	19408-74-3	1.58	JB	0.0615	5.34	1
11031	1234678-HpCDD	35822-46-9	18.5	B	0.0543	5.34	1
11031	OCDD	3268-87-9	373	B	0.0369	10.7	1
11031	2378-TCDF	51207-31-9	0.163	J	0.0405	1.07	1
11031	12378-PeCDF	57117-41-6	0.405	JB	0.0264	5.34	1
11031	23478-PeCDF	57117-31-4	0.292	JB	0.0255	5.34	1
11031	123478-HxCDF	70648-26-9	0.154	JB	0.0386	5.34	1
11031	123678-HxCDF	57117-44-9	0.173	JB	0.0357	5.34	1
11031	123789-HxCDF	72918-21-9	1.35	JB	0.0403	5.34	1
11031	234678-HxCDF	60851-34-5	0.208	JB	0.0341	5.34	1
11031	1234678-HpCDF	67562-39-4	1.24	JB	0.0164	5.34	1
11031	1234789-HpCDF	55673-89-7	0.115	JB	0.0235	5.34	1
11031	OCDF	39001-02-0	4.00	JB	0.0285	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	72	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-507-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-507-SA5C-SB

LLI Sample # SW 6625140  
 LLI Group # 1303882  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 10:45

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL507 SDG#: PH003-01

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-507-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-507-SA5C-SB

LLI Sample # SW 6625140  
LLI Group # 1303882  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 10:45

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL507 SDG#: PH003-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/07/2012 18:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401A	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-508-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5C-SB

LLI Sample # SW 6625141  
LLI Group # 1303882  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 11:05

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL508 SDG#: PH003-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-508-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5C-SB

LLI Sample # SW 6625141  
LLI Group # 1303882  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/20/2012 11:05

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL508 SDG#: PH003-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0276	U	0.0276	1.04	1
11031	12378-PeCDD	40321-76-4	0.367	J	0.0324	5.22	1
11031	123478-HxCDD	39227-28-6	0.531	JB	0.0398	5.22	1
11031	123678-HxCDD	57653-85-7	1.44	JB	0.0451	5.22	1
11031	123789-HxCDD	19408-74-3	1.34	JB	0.0447	5.22	1
11031	1234678-HpCDD	35822-46-9	29.7	B	0.0609	5.22	1
11031	OCDD	3268-87-9	518	B	0.0324	10.4	1
11031	2378-TCDF	51207-31-9	0.109	J	0.0314	1.04	1
11031	12378-PeCDF	57117-41-6	0.217	JB	0.0235	5.22	1
11031	23478-PeCDF	57117-31-4	0.258	JB	0.0227	5.22	1
11031	123478-HxCDF	70648-26-9	0.223	JB	0.0334	5.22	1
11031	123678-HxCDF	57117-44-9	0.200	JB	0.0326	5.22	1
11031	123789-HxCDF	72918-21-9	0.534	JB	0.0323	5.22	1
11031	234678-HxCDF	60851-34-5	0.230	JB	0.0264	5.22	1
11031	1234678-HpCDF	67562-39-4	2.49	JB	0.0200	5.22	1
11031	1234789-HpCDF	55673-89-7	0.204	JB	0.0242	5.22	1
11031	OCDF	39001-02-0	7.91	JB	0.0235	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	100	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	102	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	79	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-508-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5C-SB

LLI Sample # SW 6625141  
LLI Group # 1303882  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 11:05

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL508 SDG#: PH003-02

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-508-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5C-SB

LLI Sample # SW 6625141  
LLI Group # 1303882  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 11:05

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL508 SDG#: PH003-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/07/2012 19:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401A	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-509-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6625142  
LLI Group # 1303882  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 10:05

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL509 SDG#: PH003-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-509-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6625142  
LLI Group # 1303882  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/20/2012 10:05

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL509 SDG#: PH003-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>		
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>		
11031	2378-TCDD	1746-01-6	0.0401	JB	0.0293	1.04	1
11031	12378-PeCDD	40321-76-4	0.174	J	0.0328	5.22	1
11031	123478-HxCDD	39227-28-6	0.157	JB	0.0304	5.22	1
11031	123678-HxCDD	57653-85-7	0.765	JB	0.0331	5.22	1
11031	123789-HxCDD	19408-74-3	1.02	JB	0.0345	5.22	1
11031	1234678-HpCDD	35822-46-9	7.17	B	0.0325	5.22	1
11031	OCDD	3268-87-9	102	B	0.0249	10.4	1
11031	2378-TCDF	51207-31-9	0.0707	J	0.0283	1.04	1
11031	12378-PeCDF	57117-41-6	0.360	JB	0.0195	5.22	1
11031	23478-PeCDF	57117-31-4	0.101	JB	0.0190	5.22	1
11031	123478-HxCDF	70648-26-9	0.0950	JB	0.0294	5.22	1
11031	123678-HxCDF	57117-44-9	0.118	JB	0.0277	5.22	1
11031	123789-HxCDF	72918-21-9	1.17	JB	0.0297	5.22	1
11031	234678-HxCDF	60851-34-5	0.109	JB	0.0225	5.22	1
11031	1234678-HpCDF	67562-39-4	0.833	JB	0.0132	5.22	1
11031	1234789-HpCDF	55673-89-7	0.134	JB	0.0212	5.22	1
11031	OCDF	39001-02-0	2.00	JB	0.0216	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	104	32 - 141
13C12-123678-HxCDD	95	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	100	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	109	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	68	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-509-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-509-SA5C-SB

**LLI Sample #** SW 6625142  
**LLI Group #** 1303882  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 10:05

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL509 SDG#: PH003-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-509-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6625142  
LLI Group # 1303882  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 10:05

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL509 SDG#: PH003-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/07/2012 20:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401A	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-574-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-574-SA5C-SB

LLI Sample # SW 6625143  
LLI Group # 1303882  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 13:00

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL574 SDG#: PH003-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	15.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-574-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-574-SA5C-SB

LLI Sample # SW 6625143  
LLI Group # 1303882  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 13:00

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL574 SDG#: PH003-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0636	JB	0.0318	1.18	1
11031	12378-PeCDD	40321-76-4	0.620	J	0.0466	5.88	1
11031	123478-HxCDD	39227-28-6	0.867	JB	0.0559	5.88	1
11031	123678-HxCDD	57653-85-7	2.52	JB	0.0631	5.88	1
11031	123789-HxCDD	19408-74-3	2.88	JB	0.0612	5.88	1
11031	1234678-HpCDD	35822-46-9	48.0	B	0.0736	5.88	1
11031	OCDD	3268-87-9	721	B	0.0422	11.8	1
11031	2378-TCDF	51207-31-9	0.176	J	0.0491	1.18	1
11031	12378-PeCDF	57117-41-6	0.425	JB	0.0401	5.88	1
11031	23478-PeCDF	57117-31-4	0.289	JB	0.0355	5.88	1
11031	123478-HxCDF	70648-26-9	0.366	JB	0.0411	5.88	1
11031	123678-HxCDF	57117-44-9	0.346	JB	0.0389	5.88	1
11031	123789-HxCDF	72918-21-9	1.27	JB	0.0369	5.88	1
11031	234678-HxCDF	60851-34-5	0.311	JB	0.0284	5.88	1
11031	1234678-HpCDF	67562-39-4	4.25	JB	0.0266	5.88	1
11031	1234789-HpCDF	55673-89-7	0.291	JB	0.0317	5.88	1
11031	OCDF	39001-02-0	12.2	B	0.0264	11.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	99	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	104	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	82	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-574-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-574-SA5C-SB

LLI Sample # SW 6625143  
 LLI Group # 1303882  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 13:00

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL574 SDG#: PH003-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-574-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-574-SA5C-SB

LLI Sample # SW 6625143  
LLI Group # 1303882  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/20/2012 13:00

CDM Federal Programs Corp.

Submitted: 04/21/2012 10:00

3201 Jermantown Road

Reported: 05/08/2012 19:26

Suite 400

Fairfax VA 22030

SL574 SDG#: PH003-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/07/2012 21:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401A	04/30/2012 11:45	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/08/12 at 07:26 PM

Group Number: 1303882

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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Batch number: 12121162401A  
Moisture Content by 160.3

Sample number(s): 6625140-6625143

100

80-120

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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Batch number: 12125001

Sample number(s): 6625140-6625143

2378-TCDD	0.0503 J	0.0283	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0229 U	0.0229	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0260 J	0.0179	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0496 J	0.0188	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0466 J	0.0182	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.257 J	0.0189	5.00	ng/kg	99		70-140		
OCDD	0.477 J	0.0203	10.0	ng/kg	95		78-144		
2378-TCDF	0.0204 U	0.0204	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0295 J	0.0169	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0397 J	0.0167	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0393 J	0.0120	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0305 J	0.0111	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0347 J	0.0118	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0243 J	0.0113	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0686 J	0.00880	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0388 J	0.0135	5.00	ng/kg	97		78-138		
OCDF	0.151 J	0.0165	10.0	ng/kg	95		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
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Batch number: 12121162401A  
Moisture Content by 160.3

Sample number(s): 6625140-6625143 BKG: P625134

16.4

15.6

5

20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/08/12 at 07:26 PM

Group Number: 1303882

### Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B  
Batch number: 12125001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6625140	80	79	80	84	85	79
6625141	83	82	80	80	102	84
6625142	74	83	79	83	100	80
6625143	81	81	76	79	104	91
Blank	80	77	83	89	83	85
OPR	80	76	81	85	84	87
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6625140	100	77	72	83	86	83
6625141	89	80	79	84	100	90
6625142	109	73	68	87	104	95
6625143	87	82	82	81	99	92
Blank	117	82	82	82	91	92
OPR	103	74	69	80	89	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6625140	85	85	89	73	84	
6625141	89	84	87	80	85	
6625142	90	90	90	71	86	
6625143	88	85	87	78	81	
Blank	91	99	107	72	83	
OPR	87	86	85	69	81	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct# 13013

Cap# 1303882

sample# 6625140-43  
**SSFL Phase 3 Chain of Custody**

CDM Smith  
 Date Shipped: 4/20/2012  
 Carrier Name: FedEx  
 Airbill No: 7983 1085 3893

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120420-02  
 Cooler #:   
 Lab: Lancaster Laboratories, Inc.  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Dioxins 1613	PAHs 8270 SIM	Fluoride 300.0/9056	Mercury 7471 (Soil)	Metals 8010 and 8020	Other Analysis/Notes
SL-510-SA5C-SB-0.0-0.5	4/19/12 14:35	SO	None	1 - 55-Sleeve	10 day		X					
SL-518-SA5C-SB-0.0-0.5	4/19/12 14:00	SO	None	1 - 55-Sleeve	10 day		X					
SL-517-SA5C-SB-0.0-0.5	4/19/12 15:00	SO	None	1 - 55-Sleeve	10 day		X					
SL-501-SA5C-SB-0.0-0.5	4/20/12 09:30	SO	None	1 - 55-Sleeve	10 day		X					X
SL-502-SA5C-SB-0.0-0.5MS	4/20/12 08:50	SO	None	3 - 55-Sleeve	10 day		X					
SL-802-SA5C-SB-0.0-0.5	4/20/12 08:55	SO	None	1 - 55-Sleeve	10 day		X					
SL-507-SA5C-SB-0.0-0.5	4/20/12 10:45	SO	None	1 - 55-Sleeve	10 day		X					
SL-508-SA5C-SB-0.0-0.5	4/20/12 11:05	SO	None	1 - 55-Sleeve	10 day		X					
SL-509-SA5C-SB-0.0-0.5	4/20/12 10:05	SO	None	1 - 55-Sleeve	10 day		X					
SL-574-SA5C-SB-0.0-0.5	4/20/12 13:00	SO	None	1 - 55-Sleeve	10 day		X					

Special Instructions:						SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #					
Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	4/20/12									
									<i>[Signature]</i>	4/20/12	1000

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

## Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 08, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 04/24/2012  
Group Number: 1304248  
SDG: PH003  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

Client Sample Description

SL-512-SA5C-SB-0.0-0.5 Soil  
SL-520-SA5C-SB-0.0-0.5 Soil  
SL-532-SA5C-SB-0.0-0.5 Soil  
SL-533-SA5C-SB-0.0-0.5 Soil

Lancaster Labs (LLI) #

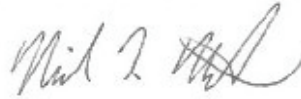
6626916  
6626917  
6626918  
6626919

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
ELECTRONIC COPY TO  
CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6626916  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 11:20

CDM Federal Programs Corp.

Submitted: 04/24/2012 09:20

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Reported: 05/08/2012 19:38

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DL512 SDG#: PH003-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6626916  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

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DL512 SDG#: PH003-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.136	JB	0.0289	1.08	1
11031	12378-PeCDD	40321-76-4	0.385	J	0.0335	5.41	1
11031	123478-HxCDD	39227-28-6	0.701	JB	0.0530	5.41	1
11031	123678-HxCDD	57653-85-7	2.95	JB	0.0530	5.41	1
11031	123789-HxCDD	19408-74-3	1.63	JB	0.0535	5.41	1
11031	1234678-HpCDD	35822-46-9	69.9	B	0.0813	5.41	1
11031	OCDD	3268-87-9	948	B	0.0434	10.8	1
11031	2378-TCDF	51207-31-9	0.310	J	0.0779	1.08	1
11031	12378-PeCDF	57117-41-6	1.10	JB	0.0570	5.41	1
11031	23478-PeCDF	57117-31-4	0.620	JB	0.0514	5.41	1
11031	123478-HxCDF	70648-26-9	1.13	JB	0.0468	5.41	1
11031	123678-HxCDF	57117-44-9	0.488	JB	0.0477	5.41	1
11031	123789-HxCDF	72918-21-9	0.670	JB	0.0451	5.41	1
11031	234678-HxCDF	60851-34-5	0.565	JB	0.0370	5.41	1
11031	1234678-HpCDF	67562-39-4	7.67	B	0.0339	5.41	1
11031	1234789-HpCDF	55673-89-7	0.537	JB	0.0380	5.41	1
11031	OCDF	39001-02-0	20.5	B	0.0252	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	98	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	81	26 - 138
13C12-OCDF	80	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6626916  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 11:20

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DL512 SDG#: PH003-05

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6626916  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 11:20

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DL512 SDG#: PH003-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/07/2012 22:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401B	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-520-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-520-SA5C-SB

LLI Sample # SW 6626917  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 14:15

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DL520 SDG#: PH003-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	10.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-520-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-520-SA5C-SB

LLI Sample # SW 6626917  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 14:15

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DL520 SDG#: PH003-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0649	JB	0.0356	1.10	1
11031	12378-PeCDD	40321-76-4	0.331	J	0.0382	5.49	1
11031	123478-HxCDD	39227-28-6	0.591	JB	0.0680	5.49	1
11031	123678-HxCDD	57653-85-7	2.67	JB	0.0768	5.49	1
11031	123789-HxCDD	19408-74-3	1.56	JB	0.0698	5.49	1
11031	1234678-HpCDD	35822-46-9	72.5	B	0.0776	5.49	1
11031	OCDD	3268-87-9	584	B	0.0518	11.0	1
11031	2378-TCDF	51207-31-9	0.246	J	0.0714	1.10	1
11031	12378-PeCDF	57117-41-6	0.499	JB	0.0442	5.49	1
11031	23478-PeCDF	57117-31-4	0.191	JB	0.0385	5.49	1
11031	123478-HxCDF	70648-26-9	0.419	JB	0.0517	5.49	1
11031	123678-HxCDF	57117-44-9	0.337	JB	0.0496	5.49	1
11031	123789-HxCDF	72918-21-9	0.579	JB	0.0498	5.49	1
11031	234678-HxCDF	60851-34-5	0.427	JB	0.0421	5.49	1
11031	1234678-HpCDF	67562-39-4	7.41	B	0.0464	5.49	1
11031	1234789-HpCDF	55673-89-7	0.510	JB	0.0493	5.49	1
11031	OCDF	39001-02-0	23.9	B	0.0301	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	93	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	88	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-520-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-520-SA5C-SB

LLI Sample # SW 6626917  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 14:15

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Submitted: 04/24/2012 09:20

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DL520 SDG#: PH003-06

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-520-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-520-SA5C-SB

LLI Sample # SW 6626917  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 14:15

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DL520 SDG#: PH003-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/07/2012 22:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401B	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-532-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-532-SA5C-SB

LLI Sample # SW 6626918  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 13:25

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DL532 SDG#: PH003-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-532-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-532-SA5C-SB

LLI Sample # SW 6626918  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

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DL532 SDG#: PH003-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
	<b>EPA 1613B</b>					
11031	2378-TCDD	1746-01-6	1.09 JB	0.0481	1.11	1
11031	12378-PeCDD	40321-76-4	10.0	0.0806	5.55	1
11031	123478-HxCDD	39227-28-6	16.9 B	0.139	5.55	1
11031	123678-HxCDD	57653-85-7	37.6 B	0.132	5.55	1
11031	123789-HxCDD	19408-74-3	28.8 B	0.110	5.55	1
11031	1234678-HpCDD	35822-46-9	1,020 B	0.340	5.55	1
11031	OCDD	3268-87-9	10,900 EB	0.213	11.1	1
11031	2378-TCDF	51207-31-9	1.02 J	0.116	1.11	1
11031	12378-PeCDF	57117-41-6	1.30 JB	0.0802	5.55	1
11031	23478-PeCDF	57117-31-4	2.28 JB	0.0726	5.55	1
11031	123478-HxCDF	70648-26-9	6.57 B	0.208	5.55	1
11031	123678-HxCDF	57117-44-9	4.23 JB	0.115	5.55	1
11031	123789-HxCDF	72918-21-9	1.51 JB	0.0749	5.55	1
11031	234678-HxCDF	60851-34-5	5.94 B	0.0707	5.55	1
11031	1234678-HpCDF	67562-39-4	141 B	0.283	5.55	1
11031	1234789-HpCDF	55673-89-7	10.7 B	0.191	5.55	1
11031	OCDF	39001-02-0	560 B	0.0932	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	55	23 - 140
13C12-OCDD	37	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	28	26 - 152
13C12-123678-HxCDF	45	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	69	29 - 147

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-532-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-532-SA5C-SB

LLI Sample # SW 6626918  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 13:25

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DL532 SDG#: PH003-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Labeled Compounds</b>						
	%Rec	Windows				
	13C12-1234678-HpCDF	33	28 - 143			
	13C12-1234789-HpCDF	54	26 - 138			
	13C12-OCDF	35	17 - 157			

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present
- S* Saturation of detection signal

**Sample Description:** SL-532-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-532-SA5C-SB

LLI Sample # SW 6626918  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 13:25

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Submitted: 04/24/2012 09:20

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DL532 SDG#: PH003-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/07/2012 23:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401B	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-533-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-533-SA5C-SB

LLI Sample # SW 6626919  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 15:15

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Submitted: 04/24/2012 09:20

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Reported: 05/08/2012 19:38

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DL533 SDG#: PH003-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	3.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-533-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-533-SA5C-SB

LLI Sample # SW 6626919  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 15:15

CDM Federal Programs Corp.

Submitted: 04/24/2012 09:20

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Reported: 05/08/2012 19:38

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DL533 SDG#: PH003-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0377	JB	0.0143	1.01	1
11031	12378-PeCDD	40321-76-4	0.110	J	0.0146	5.05	1
11031	123478-HxCDD	39227-28-6	0.0377	JB	0.0238	5.05	1
11031	123678-HxCDD	57653-85-7	0.270	JB	0.0254	5.05	1
11031	123789-HxCDD	19408-74-3	0.376	JB	0.0240	5.05	1
11031	1234678-HpCDD	35822-46-9	1.50	JB	0.0274	5.05	1
11031	OCDD	3268-87-9	20.5	B	0.0261	10.1	1
11031	2378-TCDF	51207-31-9	0.0434	J	0.0108	1.01	1
11031	12378-PeCDF	57117-41-6	0.204	JB	0.00994	5.05	1
11031	23478-PeCDF	57117-31-4	0.118	JBQ	0.0100	5.05	1
11031	123478-HxCDF	70648-26-9	0.0906	JBQ	0.0164	5.05	1
11031	123678-HxCDF	57117-44-9	0.0819	JB	0.0142	5.05	1
11031	123789-HxCDF	72918-21-9	0.407	JB	0.0172	5.05	1
11031	234678-HxCDF	60851-34-5	0.0655	JB	0.0129	5.05	1
11031	1234678-HpCDF	67562-39-4	0.281	JB	0.0126	5.05	1
11031	1234789-HpCDF	55673-89-7	0.0364	JB	0.0215	5.05	1
11031	OCDF	39001-02-0	0.816	JB	0.0285	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	93	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	46	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-533-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-533-SA5C-SB

LLI Sample # SW 6626919  
 LLI Group # 1304248  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 15:15

CDM Federal Programs Corp.

Submitted: 04/24/2012 09:20

3201 Jermantown Road

Reported: 05/08/2012 19:38

Suite 400

Fairfax VA 22030

DL533 SDG#: PH003-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-533-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-533-SA5C-SB

LLI Sample # SW 6626919  
LLI Group # 1304248  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/23/2012 15:15

CDM Federal Programs Corp.

Submitted: 04/24/2012 09:20

3201 Jermantown Road

Reported: 05/08/2012 19:38

Suite 400

Fairfax VA 22030

DL533 SDG#: PH003-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/08/2012 12:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401B	04/30/2012 11:45	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/08/12 at 07:38 PM

Group Number: 1304248

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
----------------------	---------------------	--------------------	------------------	---------------------	-----------------	------------------	------------------------	------------	----------------

Batch number: 12121162401B  
Moisture Content by 160.3

Sample number(s): 6626916-6626919

100 80-120

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
----------------------	---------------------	--------------------	------------------	---------------------	-----------------	------------------	------------------------	------------	----------------

Batch number: 12125001

Sample number(s): 6626916-6626919

2378-TCDD	0.0503 J	0.0283	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0229 U	0.0229	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0260 J	0.0179	5.00	ng/kg	92		70-164		
123678-HxCDD	0.0496 J	0.0188	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0466 J	0.0182	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.257 J	0.0189	5.00	ng/kg	99		70-140		
OCDD	0.477 J	0.0203	10.0	ng/kg	95		78-144		
2378-TCDF	0.0204 U	0.0204	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0295 J	0.0169	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0397 J	0.0167	5.00	ng/kg	92		68-160		
123478-HxCDF	0.0393 J	0.0120	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0305 J	0.0111	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0347 J	0.0118	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0243 J	0.0113	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0686 J	0.00880	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0388 J	0.0135	5.00	ng/kg	97		78-138		
OCDF	0.151 J	0.0165	10.0	ng/kg	95		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
----------------------	----------------	-----------------	----------------------	------------	----------------	-----------------	-----------------	----------------	--------------------

Batch number: 12121162401B  
Moisture Content by 160.3

Sample number(s): 6626916-6626919 BKG: P632075

11.3 11.2 1 20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/08/12 at 07:38 PM

Group Number: 1304248

### Surrogate Quality Control

Analysis Name: 10a Dioxin/Furan by EPA 1613B  
Batch number: 12125001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6626916	82	88	80	78	98	88
6626917	83	88	78	79	93	84
6626918	70	66	28	45	72	69
6626919	85	80	78	86	93	75
Blank	80	77	83	89	83	85
OPR	80	76	81	85	84	87
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6626916	84	81	80	90	88	91
6626917	85	87	88	87	89	83
6626918	33	54	35	69	59	65
6626919	92	60	46	87	93	89
Blank	117	82	82	82	91	92
OPR	103	74	69	80	89	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6626916	87	83	80	80	89	
6626917	85	90	91	76	85	
6626918	70	55	37	70	67	
6626919	89	79	66	80	87	
Blank	91	99	107	72	83	
OPR	87	86	85	69	81	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

13013 1304248 6626916-20

# SSFL Phase 3 Chain of Custody

CDM Smith  
 Date Shipped: 4/23/2012  
 Carrier Name: FedEx  
 Airbill No:

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120423-02  
 Cooler #:  
 Lab: Lancaster Laboratories, Inc.  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metalis 6010 and 6020	Mercury 7471 (Soil)	Mercury 300.0/9056	Fluoride 300.0/9056	SIOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cl 7196/7199	Herbicides 8151	Pesticides 8081	VOCS 8260	1,4 Dioxane 8260 SIM	TPH-GRQ 8015	TPH-EH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NOMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes						
SL-512-SA5C-SB-0.0-0.5	4/23/12 11:20	SO	None	1 - SS-Sleeve	10 day																																						
SL-520-SA5C-SB-0.0-0.5	4/23/12 14:15	SO	None	1 - SS-Sleeve	10 day																																						
SL-532-SA5C-SB-0.0-0.5	4/23/12 13:25	SO	None	1 - SS-Sleeve	10 day																																						
SL-533-SA5C-SB-0.0-0.5	4/23/12 15:15	SO	None	1 - SS-Sleeve	10 day																																						

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	4/23/12							<i>[Signature]</i>	4/24/12	0926

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 08, 2012

Project: SSFL Phase 3 Sampling

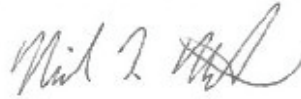
Submittal Date: 04/27/2012  
Group Number: 1305179  
SDG: PT004  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-695-SA5C-SB-0.0-0.5 Soil  
SL-695-SA5C-SB-0.0-0.5 MS Soil  
SL-695-SA5C-SB-0.0-0.5 MSD Soil  
SL-995-SA5C-SB-0.0-0.5 Soil  
EB-042612 WaterLancaster Labs (LLI) #6632075  
6632076  
6632077  
6632080  
6632081

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
1 COPY TO      Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-695-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-695-SA5C-SB

LLI Sample # SW 6632075  
LLI Group # 1305179  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 09:25

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 10:37

Suite 400

Fairfax VA 22030

SL695 SDG#: PT004-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,300	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121220019A	05/03/2012 22:28	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121220019A	05/03/2012 13:30	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401B	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-695-SA5C-SB-0.0-0.5 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-695-SA5C-SB

LLI Sample # SW 6632076  
LLI Group # 1305179  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 09:25

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 10:37

Suite 400

Fairfax VA 22030

SL695 SDG#: PT004-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	SW-846 8315A		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	11,000	1,300	3,300	1
<b>Wet Chemistry</b>						
	EPA 160.3 modified		%	%	%	
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121220019A	05/03/2012 22:37	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121220019A	05/03/2012 13:30	Kelli M Barto	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401B	04/30/2012 11:45	William C Schwebel	1

**Sample Description:** SL-695-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-695-SA5C-SB

LLI Sample # SW 6632077  
LLI Group # 1305179  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 09:25

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 10:37

Suite 400

Fairfax VA 22030

SL695 SDG#: PT004-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	11,000	1,300	3,300	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11626	28a Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	11.3	0.50	0.50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121220019A	05/03/2012 22:47	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121220019A	05/03/2012 13:30	Kelli M Barto	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	12121162401B	04/30/2012 11:45	William C Schwebel	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401B	04/30/2012 11:45	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-995-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-995-SA5C-SB

LLI Sample # SW 6632080  
LLI Group # 1305179  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 09:30

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 10:37

Suite 400

Fairfax VA 22030

SL995 SDG#: PT004-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,300	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	7.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121220019A	05/03/2012 22:56	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121220019A	05/03/2012 13:30	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12121162401B	04/30/2012 11:45	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB-042612 Water  
SSFL Phase 3 Soil Sampling  
EB

LLI Sample # WW 6632081  
LLI Group # 1305179  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 14:50

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 10:37

Suite 400

Fairfax VA 22030

695EB SDG#: PT004-03EB\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>							
		<b>SW-846 8315A</b>	ug/l		ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10 U		10	50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	20b Formaldehyde 8315A	SW-846 8315A	1	121190001A	04/30/2012 16:28	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	121190001A	04/28/2012 12:30	Olivia Arosemena	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/08/12 at 10:37 AM

Group Number: 1305179

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121190001A 20b Formaldehyde 8315A	Sample number(s): 6632081 10 U	10.	50	ug/l	92	92	69-130	0	30
Batch number: 121220019A 20a Formaldehyde 8315A	Sample number(s): 6632075-6632077,6632080 1,200 U	1,200.	3,000	ug/kg	103		80-126		
Batch number: 12121162401B 28a Moisture Content by 160.3 Moisture Content by 160.3 Moisture Content by 160.3	Sample number(s): 6632075-6632077,6632080				100 100 100		80-120 80-120 80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121220019A 20a Formaldehyde 8315A	Sample number(s): 6632075-6632077,6632080 UNSPK: 6632075 98	94	80-120	4	50				
Batch number: 12121162401B 28a Moisture Content by 160.3 Moisture Content by 160.3 Moisture Content by 160.3	Sample number(s): 6632075-6632077,6632080 BKG: 6632075					11.3 11.3 11.3	11.2 11.2 11.2	1 1 1	20 20 20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20b Formaldehyde 8315A  
Batch number: 121190001A  
Butyraldehyde

---

6632081	60
Blank	65
LCS	85

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/08/12 at 10:37 AM

Group Number: 1305179

### Surrogate Quality Control

LCSD 87

---

Limits: 45-145

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121220019A  
Butyraldehyde

---

6632075	99
6632076	92
6632077	96
6632080	98
Blank	101
LCS	98
MS	92
MSD	96

---

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

acct# 13013 Cup# 1305179

sample# G632075-81  
**SSFL Phase 3 Chain of Custody**

CDM Smith  
 Date Shipped: 4/26/2012  
 Carrier Name:  
 Airbill No:

Contact Name: Pam Hartman  
 Contact Phone: (818) 466-8007

No: 20120426-02  
 Cooler #:  
 Lab: Lancaster Laboratories, Inc.  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metal Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Etheretics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr. 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCB4/PCIS 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metal 6010 and 6020	Other Analysis/Notes				
SL-522-SA5C-SB-0.0-0.5	4/25/12 11:20	SO	None	1 - SS-Sleeve	10 day																																				
SL-523-SA5C-SB-0.0-0.5	4/25/12 14:00	SO	None	1 - SS-Sleeve	10 day																																				
SL-530-SA5C-SB-0.0-0.5	4/25/12 10:30	SO	None	1 - SS-Sleeve	10 day																																				
SL-531-SA5C-SB-0.0-0.5	4/25/12 13:25	SO	None	1 - SS-Sleeve	10 day																																				
SL-623-SA5C-SB-0.0-0.5	4/25/12 09:55	SO	None	1 - SS-Sleeve	10 day																																				
SL-702-SA5C-SB-0.0-0.5	4/26/12 10:55	SO	None	1 - SS-Sleeve	10 day																																				
SL-695-SA5C-SB-0.0-0.5MS	4/26/12 09:25	SO	None	1 - SS-Sleeve	10 day																																				
SL-995-SA5C-SB-0.0-0.5	4/26/12 09:30	SO	None	1 - SS-Sleeve	10 day																																				
EB-042612	4/26/12 14:50	WQ	None	2 - 1 L Amber	10 day																																				
SL-708-SA5C-SB-0.0-0.5	4/26/12 14:10	SO	None	1 - SS-Sleeve	10 day																																				
SL-711-SA5C-SB-0.0-0.5	4/26/12 14:40	SO	None	1 - SS-Sleeve	10 day																																				

NYS LMSD

Special Instructions: The EB collection time was updated per PH. The bottle labels and sample ID confirm this change. <sup>PH</sup> NYS 4/26/12

SAMPLES TRANSFERRED FROM  
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	4/26/12									

*Brunny* 4-27-12 1005  
*Brunny*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 08, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 04/27/2012  
Group Number: 1305180  
SDG: PH003  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

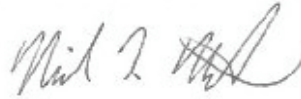
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-522-SA5C-SB-0.0-0.5 Soil	6632082
SL-523-SA5C-SB-0.0-0.5 Soil	6632083
SL-530-SA5C-SB-0.0-0.5 Soil	6632084
SL-531-SA5C-SB-0.0-0.5 Soil	6632085
SL-623-SA5C-SB-0.0-0.5 Soil	6632086
SL-702-SA5C-SB-0.0-0.5 Soil	6632087
EB-042612 Water	6632088
SL-708-SA5C-SB-0.0-0.5 Soil	6632089
SL-711-SA5C-SB-0.0-0.5 Soil	6632090

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-522-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6632082  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 11:20

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL522 SDG#: PH003-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	8.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-522-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6632082  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 11:20

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL522 SDG#: PH003-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.111	JB	0.0195	1.07	1
11031	12378-PeCDD	40321-76-4	0.434	J	0.0310	5.35	1
11031	123478-HxCDD	39227-28-6	0.366	JB	0.0415	5.35	1
11031	123678-HxCDD	57653-85-7	1.52	JB	0.0413	5.35	1
11031	123789-HxCDD	19408-74-3	1.45	JB	0.0400	5.35	1
11031	1234678-HpCDD	35822-46-9	22.0	B	0.0481	5.35	1
11031	OCDD	3268-87-9	207	B	0.0322	10.7	1
11031	2378-TCDF	51207-31-9	0.146	J	0.0376	1.07	1
11031	12378-PeCDF	57117-41-6	0.429	JB	0.0320	5.35	1
11031	23478-PeCDF	57117-31-4	0.553	JB	0.0303	5.35	1
11031	123478-HxCDF	70648-26-9	0.385	JB	0.0298	5.35	1
11031	123678-HxCDF	57117-44-9	0.359	JB	0.0278	5.35	1
11031	123789-HxCDF	72918-21-9	0.709	JB	0.0260	5.35	1
11031	234678-HxCDF	60851-34-5	0.360	JB	0.0245	5.35	1
11031	1234678-HpCDF	67562-39-4	3.16	JB	0.0254	5.35	1
11031	1234789-HpCDF	55673-89-7	0.252	JB	0.0290	5.35	1
11031	OCDF	39001-02-0	7.01	JB	0.0173	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	67	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-522-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6632082  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 11:20

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL522 SDG#: PH003-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-522-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6632082  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 11:20

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL522 SDG#: PH003-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/08/2012 04:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12122162401B	05/01/2012 11:51	William C Schwebel	1

**Sample Description:** SL-523-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-523-SA5C-SB

LLI Sample # SW 6632083  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 14:00

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL523 SDG#: PH003-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-523-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-523-SA5C-SB

LLI Sample # SW 6632083  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 14:00

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL523 SDG#: PH003-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0234 JB	0.0189	1.02	1
11031	12378-PeCDD	40321-76-4	0.111 J	0.0205	5.08	1
11031	123478-HxCDD	39227-28-6	0.0923 JB	0.0356	5.08	1
11031	123678-HxCDD	57653-85-7	0.525 JB	0.0374	5.08	1
11031	123789-HxCDD	19408-74-3	0.500 JB	0.0369	5.08	1
11031	1234678-HpCDD	35822-46-9	6.01 B	0.0398	5.08	1
11031	OCDD	3268-87-9	69.9 B	0.0506	10.2	1
11031	2378-TCDF	51207-31-9	0.0803 J	0.0330	1.02	1
11031	12378-PeCDF	57117-41-6	0.121 JB	0.0285	5.08	1
11031	23478-PeCDF	57117-31-4	0.336 JB	0.0243	5.08	1
11031	123478-HxCDF	70648-26-9	0.118 JB	0.0339	5.08	1
11031	123678-HxCDF	57117-44-9	0.147 JB	0.0294	5.08	1
11031	123789-HxCDF	72918-21-9	0.323 JB	0.0249	5.08	1
11031	234678-HxCDF	60851-34-5	0.198 JB	0.0216	5.08	1
11031	1234678-HpCDF	67562-39-4	0.939 JB	0.0274	5.08	1
11031	1234789-HpCDF	55673-89-7	0.0853 JB	0.0261	5.08	1
11031	OCDF	39001-02-0	1.58 JB	0.0245	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	67	26 - 123
13C12-234678-HxCDF	93	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	66	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-523-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-523-SA5C-SB

LLI Sample # SW 6632083  
 LLI Group # 1305180  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 14:00

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL523 SDG#: PH003-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-523-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-523-SA5C-SB

LLI Sample # SW 6632083  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 14:00

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL523 SDG#: PH003-10

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/08/2012 05:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12122162401B	05/01/2012 11:51	William C Schwebel	1

**Sample Description:** SL-530-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-530-SA5C-SB

LLI Sample # SW 6632084  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 10:30

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL530 SDG#: PH003-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-530-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-530-SA5C-SB

LLI Sample # SW 6632084  
LLI Group # 1305180  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/25/2012 10:30

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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Reported: 05/08/2012 19:37

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Fairfax VA 22030

SL530 SDG#: PH003-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0412	JB	0.0150	1.05	1
11031	12378-PeCDD	40321-76-4	0.367	J	0.0273	5.26	1
11031	123478-HxCDD	39227-28-6	0.650	JB	0.0358	5.26	1
11031	123678-HxCDD	57653-85-7	1.84	JB	0.0400	5.26	1
11031	123789-HxCDD	19408-74-3	1.47	JB	0.0379	5.26	1
11031	1234678-HpCDD	35822-46-9	44.5	B	0.0646	5.26	1
11031	OCDD	3268-87-9	421	B	0.0413	10.5	1
11031	2378-TCDF	51207-31-9	0.0617	J	0.0396	1.05	1
11031	12378-PeCDF	57117-41-6	0.149	JB	0.0436	5.26	1
11031	23478-PeCDF	57117-31-4	0.289	JB	0.0377	5.26	1
11031	123478-HxCDF	70648-26-9	0.331	JB	0.0319	5.26	1
11031	123678-HxCDF	57117-44-9	0.285	JB	0.0297	5.26	1
11031	123789-HxCDF	72918-21-9	0.354	JB	0.0286	5.26	1
11031	234678-HxCDF	60851-34-5	0.357	JB	0.0239	5.26	1
11031	1234678-HpCDF	67562-39-4	6.69	B	0.0293	5.26	1
11031	1234789-HpCDF	55673-89-7	0.452	JB	0.0344	5.26	1
11031	OCDF	39001-02-0	20.1	B	0.0266	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	62	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-530-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-530-SA5C-SB

LLI Sample # SW 6632084  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 10:30

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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Reported: 05/08/2012 19:37

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SL530 SDG#: PH003-11

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-530-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-530-SA5C-SB

LLI Sample # SW 6632084  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 10:30

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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Reported: 05/08/2012 19:37

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Fairfax VA 22030

SL530 SDG#: PH003-11

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/08/2012 06:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12122162401B	05/01/2012 11:51	William C Schwebel	1

**Sample Description:** SL-531-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-531-SA5C-SB

LLI Sample # SW 6632085  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 13:25

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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SL531 SDG#: PH003-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	7.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-531-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-531-SA5C-SB

LLI Sample # SW 6632085  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 13:25

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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Reported: 05/08/2012 19:37

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SL531 SDG#: PH003-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0516	JB	0.0201	1.07	1
11031	12378-PeCDD	40321-76-4	0.246	J	0.0261	5.36	1
11031	123478-HxCDD	39227-28-6	0.273	JB	0.0383	5.36	1
11031	123678-HxCDD	57653-85-7	1.36	JB	0.0411	5.36	1
11031	123789-HxCDD	19408-74-3	1.01	JB	0.0398	5.36	1
11031	1234678-HpCDD	35822-46-9	19.6	B	0.0503	5.36	1
11031	OCDD	3268-87-9	231	B	0.0298	10.7	1
11031	2378-TCDF	51207-31-9	0.191	J	0.0849	1.07	1
11031	12378-PeCDF	57117-41-6	0.447	JB	0.0787	5.36	1
11031	23478-PeCDF	57117-31-4	0.563	JB	0.0702	5.36	1
11031	123478-HxCDF	70648-26-9	0.326	JB	0.0300	5.36	1
11031	123678-HxCDF	57117-44-9	0.296	JB	0.0309	5.36	1
11031	123789-HxCDF	72918-21-9	0.523	JB	0.0289	5.36	1
11031	234678-HxCDF	60851-34-5	0.315	JB	0.0245	5.36	1
11031	1234678-HpCDF	67562-39-4	3.08	JB	0.0227	5.36	1
11031	1234789-HpCDF	55673-89-7	0.261	JB	0.0263	5.36	1
11031	OCDF	39001-02-0	6.28	JB	0.0227	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	98	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	65	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-531-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-531-SA5C-SB

LLI Sample # SW 6632085  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 13:25

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL531 SDG#: PH003-12

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-531-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-531-SA5C-SB

LLI Sample # SW 6632085  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 13:25

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL531 SDG#: PH003-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/08/2012 07:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12122162401B	05/01/2012 11:51	William C Schwebel	1

**Sample Description:** SL-623-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-623-SA5C-SB

LLI Sample # SW 6632086  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 09:55

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

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Fairfax VA 22030

SL623 SDG#: PH003-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	6.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-623-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-623-SA5C-SB

LLI Sample # SW 6632086  
LLI Group # 1305180  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/25/2012 09:55

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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Reported: 05/08/2012 19:37

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Fairfax VA 22030

SL623 SDG#: PH003-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0187 JBQ	0.0130	1.02	1
11031	12378-PeCDD	40321-76-4	0.236 J	0.0232	5.12	1
11031	123478-HxCDD	39227-28-6	0.452 JB	0.0379	5.12	1
11031	123678-HxCDD	57653-85-7	2.02 JB	0.0436	5.12	1
11031	123789-HxCDD	19408-74-3	1.20 JB	0.0420	5.12	1
11031	1234678-HpCDD	35822-46-9	49.3 B	0.0574	5.12	1
11031	OCDD	3268-87-9	517 B	0.0368	10.2	1
11031	2378-TCDF	51207-31-9	0.109 J	0.0322	1.02	1
11031	12378-PeCDF	57117-41-6	0.391 JB	0.0292	5.12	1
11031	23478-PeCDF	57117-31-4	0.747 JB	0.0253	5.12	1
11031	123478-HxCDF	70648-26-9	0.547 JB	0.0260	5.12	1
11031	123678-HxCDF	57117-44-9	0.464 JB	0.0251	5.12	1
11031	123789-HxCDF	72918-21-9	0.487 JB	0.0250	5.12	1
11031	234678-HxCDF	60851-34-5	0.616 JB	0.0207	5.12	1
11031	1234678-HpCDF	67562-39-4	6.03 B	0.0295	5.12	1
11031	1234789-HpCDF	55673-89-7	0.403 JB	0.0349	5.12	1
11031	OCDF	39001-02-0	13.7 B	0.0178	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	98	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	100	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	66	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-623-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-623-SA5C-SB

LLI Sample # SW 6632086  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 09:55

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL623 SDG#: PH003-13

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-623-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-623-SA5C-SB

LLI Sample # SW 6632086  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/25/2012 09:55

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

Suite 400

Fairfax VA 22030

SL623 SDG#: PH003-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/08/2012 08:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12122162401B	05/01/2012 11:51	William C Schwebel	1

**Sample Description:** SL-702-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-702-SA5C-SB

LLI Sample # SW 6632087  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 10:55

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

3201 Jermantown Road

Reported: 05/08/2012 19:37

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SL702 SDG#: PH003-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	5.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-702-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-702-SA5C-SB

LLI Sample # SW 6632087  
LLI Group # 1305180  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/26/2012 10:55

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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SL702 SDG#: PH003-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0186 JBQ	0.0146	1.03	1
11031	12378-PeCDD	40321-76-4	0.0810 JQ	0.0175	5.17	1
11031	123478-HxCDD	39227-28-6	0.118 JB	0.0327	5.17	1
11031	123678-HxCDD	57653-85-7	0.388 JB	0.0338	5.17	1
11031	123789-HxCDD	19408-74-3	0.400 JB	0.0325	5.17	1
11031	1234678-HpCDD	35822-46-9	6.10 B	0.0328	5.17	1
11031	OCDD	3268-87-9	53.5 B	0.0320	10.3	1
11031	2378-TCDF	51207-31-9	0.0203 J	0.0164	1.03	1
11031	12378-PeCDF	57117-41-6	0.108 JB	0.0138	5.17	1
11031	23478-PeCDF	57117-31-4	0.0755 JB	0.0139	5.17	1
11031	123478-HxCDF	70648-26-9	0.152 JB	0.0252	5.17	1
11031	123678-HxCDF	57117-44-9	0.117 JB	0.0227	5.17	1
11031	123789-HxCDF	72918-21-9	0.190 JB	0.0263	5.17	1
11031	234678-HxCDF	60851-34-5	0.122 JB	0.0202	5.17	1
11031	1234678-HpCDF	67562-39-4	1.02 JB	0.0142	5.17	1
11031	1234789-HpCDF	55673-89-7	0.0975 JB	0.0219	5.17	1
11031	OCDF	39001-02-0	2.41 JB	0.0207	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	53	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-702-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-702-SA5C-SB

LLI Sample # SW 6632087  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 10:55

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SL702 SDG#: PH003-14

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-702-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-702-SA5C-SB

LLI Sample # SW 6632087  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 10:55

CDM Federal Programs Corp.

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SL702 SDG#: PH003-14

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/08/2012 09:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12122162401B	05/01/2012 11:51	William C Schwebel	1

Sample Description: **EB-042612 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB**

LLI Sample # **WW 6632088**  
 LLI Group # **1305180**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 04/26/2012 14:50

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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SLEQB SDG#: PH003-15EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.226 U	0.226	2.03	1
10915	12378-PeCDD	40321-76-4	0.312 JBQ	0.191	10.2	1
10915	123478-HxCDD	39227-28-6	0.143 U	0.143	10.2	1
10915	123678-HxCDD	57653-85-7	0.339 JB	0.150	10.2	1
10915	123789-HxCDD	19408-74-3	0.329 JB	0.144	10.2	1
10915	1234678-HpCDD	35822-46-9	3.12 JB	0.204	10.2	1
10915	OCDD	3268-87-9	6.99 JB	0.270	20.3	1
10915	2378-TCDF	51207-31-9	0.148 U	0.148	2.03	1
10915	12378-PeCDF	57117-41-6	0.440 JB	0.141	10.2	1
10915	23478-PeCDF	57117-31-4	0.623 JB	0.130	10.2	1
10915	123478-HxCDF	70648-26-9	0.371 JB	0.0839	10.2	1
10915	123678-HxCDF	57117-44-9	0.264 JB	0.0833	10.2	1
10915	123789-HxCDF	72918-21-9	0.173 JBQ	0.0806	10.2	1
10915	234678-HxCDF	60851-34-5	0.161 JB	0.0752	10.2	1
10915	1234678-HpCDF	67562-39-4	0.597 JB	0.0861	10.2	1
10915	1234789-HpCDF	55673-89-7	0.307 JB	0.0987	10.2	1
10915	OCDF	39001-02-0	0.701 JB	0.174	20.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	56	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB-042612 Water  
SSFL Phase 3 Soil Sampling  
EB

LLI Sample # WW 6632088  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 14:50

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Submitted: 04/27/2012 10:05

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SLEQB SDG#: PH003-15EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b Dioxin/Furan by EPA 1613B	EPA 1613B	1	12122001	05/04/2012 09:46	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12122001	05/01/2012 09:50	Ginelle L Haines	1

**Sample Description:** SL-708-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-708-SA5C-SB

LLI Sample # SW 6632089  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 14:10

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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SL708 SDG#: PH003-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	4.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-708-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-708-SA5C-SB

LLI Sample # SW 6632089  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 14:10

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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Reported: 05/08/2012 19:37

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Fairfax VA 22030

SL708 SDG#: PH003-16

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0176	JB	0.0147	1.01	1
11031	12378-PeCDD	40321-76-4	0.251	J	0.0201	5.04	1
11031	123478-HxCDD	39227-28-6	0.404	JB	0.0364	5.04	1
11031	123678-HxCDD	57653-85-7	1.12	JB	0.0390	5.04	1
11031	123789-HxCDD	19408-74-3	0.915	JB	0.0379	5.04	1
11031	1234678-HpCDD	35822-46-9	28.4	B	0.0516	5.04	1
11031	OCDD	3268-87-9	276	B	0.0465	10.1	1
11031	2378-TCDF	51207-31-9	0.0287	J	0.0260	1.01	1
11031	12378-PeCDF	57117-41-6	0.329	JB	0.0187	5.04	1
11031	23478-PeCDF	57117-31-4	0.0791	JB	0.0169	5.04	1
11031	123478-HxCDF	70648-26-9	0.350	JB	0.0313	5.04	1
11031	123678-HxCDF	57117-44-9	0.208	JB	0.0292	5.04	1
11031	123789-HxCDF	72918-21-9	0.157	JB	0.0307	5.04	1
11031	234678-HxCDF	60851-34-5	0.254	JB	0.0265	5.04	1
11031	1234678-HpCDF	67562-39-4	4.01	JB	0.0222	5.04	1
11031	1234789-HpCDF	55673-89-7	0.320	JB	0.0291	5.04	1
11031	OCDF	39001-02-0	11.8	B	0.0179	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	59	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-708-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-708-SA5C-SB

LLI Sample # SW 6632089  
 LLI Group # 1305180  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 14:10

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SL708 SDG#: PH003-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-708-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-708-SA5C-SB

LLI Sample # SW 6632089  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 14:10

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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SL708 SDG#: PH003-16

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/08/2012 10:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12122162401B	05/01/2012 11:51	William C Schwebel	1

**Sample Description:** SL-711-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-711-SA5C-SB

LLI Sample # SW 6632090  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 14:40

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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Reported: 05/08/2012 19:37

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SL711 SDG#: PH003-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture Content by 160.3	n.a.	5.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-711-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-711-SA5C-SB

LLI Sample # SW 6632090  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 14:40

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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Reported: 05/08/2012 19:37

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SL711 SDG#: PH003-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0436 JBQ	0.0164	1.04	1
11031	12378-PeCDD	40321-76-4	0.153 JQ	0.0362	5.21	1
11031	123478-HxCDD	39227-28-6	0.244 JB	0.0589	5.21	1
11031	123678-HxCDD	57653-85-7	1.30 JB	0.0637	5.21	1
11031	123789-HxCDD	19408-74-3	0.673 JB	0.0623	5.21	1
11031	1234678-HpCDD	35822-46-9	47.4 B	0.0722	5.21	1
11031	OCDD	3268-87-9	439 B	0.0376	10.4	1
11031	2378-TCDF	51207-31-9	0.0353 U	0.0353	1.04	1
11031	12378-PeCDF	57117-41-6	0.355 JB	0.0233	5.21	1
11031	23478-PeCDF	57117-31-4	0.167 JB	0.0219	5.21	1
11031	123478-HxCDF	70648-26-9	0.393 JB	0.0346	5.21	1
11031	123678-HxCDF	57117-44-9	0.215 JB	0.0335	5.21	1
11031	123789-HxCDF	72918-21-9	0.217 JB	0.0348	5.21	1
11031	234678-HxCDF	60851-34-5	0.256 JB	0.0274	5.21	1
11031	1234678-HpCDF	67562-39-4	3.88 JB	0.0307	5.21	1
11031	1234789-HpCDF	55673-89-7	0.374 JBQ	0.0360	5.21	1
11031	OCDF	39001-02-0	14.2 B	0.0251	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	98	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-711-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-711-SA5C-SB

LLI Sample # SW 6632090  
 LLI Group # 1305180  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 14:40

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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Reported: 05/08/2012 19:37

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SL711 SDG#: PH003-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-711-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-711-SA5C-SB

LLI Sample # SW 6632090  
LLI Group # 1305180  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/26/2012 14:40

CDM Federal Programs Corp.

Submitted: 04/27/2012 10:05

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Reported: 05/08/2012 19:37

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Fairfax VA 22030

SL711 SDG#: PH003-17

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a Dioxin/Furan by EPA 1613B	EPA 1613B	1	12125001	05/08/2012 11:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12125001	05/04/2012 10:00	Deborah M Zimmerman	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12122162401B	05/01/2012 11:51	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/08/12 at 07:37 PM

Group Number: 1305180

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
----------------------	---------------------	--------------------	------------------	---------------------	-----------------	------------------	------------------------	------------	----------------

Batch number: 12122162401B  
Moisture Content by 160.3

Sample number(s): 6632082-6632087,6632089-6632090  
100 80-120

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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Batch number: 12122001

Sample number(s): 6632088

2378-TCDD	0.281	J	0.281	2.00	pg/l	98	67-158		
12378-PeCDD	0.441	J	0.251	10.0	pg/l	99	70-142		
123478-HxCDD	0.262	J	0.207	10.0	pg/l	96	70-164		
123678-HxCDD	0.575	J	0.219	10.0	pg/l	95	76-134		
123789-HxCDD	0.493	J	0.204	10.0	pg/l	103	64-162		
1234678-HpCDD	3.60	J	0.262	10.0	pg/l	100	70-140		
OCDD	5.60	J	0.329	20.0	pg/l	96	78-144		
2378-TCDF	0.318	J	0.217	2.00	pg/l	93	75-158		
12378-PeCDF	0.533	J	0.192	10.0	pg/l	101	80-134		
23478-PeCDF	0.503	J	0.170	10.0	pg/l	93	68-160		
123478-HxCDF	0.450	J	0.142	10.0	pg/l	102	72-134		
123678-HxCDF	0.475	J	0.146	10.0	pg/l	102	84-130		
123789-HxCDF	0.174	J	0.143	10.0	pg/l	101	78-130		
234678-HxCDF	0.399	J	0.131	10.0	pg/l	97	70-156		
1234678-HpCDF	0.669	J	0.136	10.0	pg/l	92	82-122		
1234789-HpCDF	0.452	J	0.139	10.0	pg/l	100	78-138		
OCDF	1.38	J	0.215	20.0	pg/l	98	63-170		

Batch number: 12125001

Sample number(s): 6632082-6632087,6632089-6632090

2378-TCDD	0.0503	J	0.0283	1.00	ng/kg	99	67-158		
12378-PeCDD	0.0229	U	0.0229	5.00	ng/kg	99	70-142		
123478-HxCDD	0.0260	J	0.0179	5.00	ng/kg	92	70-164		
123678-HxCDD	0.0496	J	0.0188	5.00	ng/kg	95	76-134		
123789-HxCDD	0.0466	J	0.0182	5.00	ng/kg	99	64-162		
1234678-HpCDD	0.257	J	0.0189	5.00	ng/kg	99	70-140		
OCDD	0.477	J	0.0203	10.0	ng/kg	95	78-144		
2378-TCDF	0.0204	U	0.0204	1.00	ng/kg	93	75-158		
12378-PeCDF	0.0295	J	0.0169	5.00	ng/kg	98	80-134		
23478-PeCDF	0.0397	J	0.0167	5.00	ng/kg	92	68-160		
123478-HxCDF	0.0393	J	0.0120	5.00	ng/kg	97	72-134		
123678-HxCDF	0.0305	J	0.0111	5.00	ng/kg	97	84-130		
123789-HxCDF	0.0347	J	0.0118	5.00	ng/kg	97	78-130		
234678-HxCDF	0.0243	J	0.0113	5.00	ng/kg	92	70-156		
1234678-HpCDF	0.0686	J	0.00880	5.00	ng/kg	90	82-122		
1234789-HpCDF	0.0388	J	0.0135	5.00	ng/kg	97	78-138		
OCDF	0.151	J	0.0165	10.0	ng/kg	95	63-170		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/08/12 at 07:37 PM

Group Number: 1305180

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12122162401B									
Moisture Content by 160.3									
Sample number(s): 6632082-6632087, 6632089-6632090									
						16.7	16.3	2	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b Dioxin/Furan by EPA 1613B

Batch number: 12122001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6632088	75	70	69	68	75	72
Blank	86	82	74	72	78	80
OPR	76	71	77	75	78	80
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6632088	65	63	56	75	74	71
Blank	70	74	70	83	75	75
OPR	80	77	78	74	81	79
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6632088	72	64	57	67	70	
Blank	75	74	72	77	78	
OPR	79	82	81	71	70	
Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a Dioxin/Furan by EPA 1613B

Batch number: 12125001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6632082	88	86	73	78	85	87
6632083	82	84	61	67	93	86
6632084	83	83	74	76	89	82
6632085	87	83	86	84	98	88
6632086	84	85	82	82	100	85
6632087	75	73	76	82	89	75
6632089	79	77	76	77	87	77
6632090	86	83	83	83	98	86
Blank	80	77	83	89	83	85

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/08/12 at 07:37 PM

Group Number: 1305180

### Surrogate Quality Control

OPR	80	76	81	85	84	87
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6632082	78	74	67	84	82	81
6632083	65	76	66	85	89	83
6632084	75	71	62	85	87	84
6632085	81	75	65	84	90	89
6632086	82	74	66	85	98	90
6632087	85	60	53	77	86	84
6632089	78	66	59	77	83	79
6632090	80	72	64	85	91	88
Blank	117	82	82	82	91	92
OPR	103	74	69	80	89	85
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6632082	83	80	72	82	86	
6632083	84	77	69	77	84	
6632084	82	75	66	78	82	
6632085	88	79	68	82	84	
6632086	87	78	69	82	86	
6632087	83	73	63	73	78	
6632089	78	72	64	74	79	
6632090	85	76	68	82	84	
Blank	91	99	107	72	83	
OPR	87	86	85	69	81	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct # 13013 Cup # 1305180

sample # 6632082-90  
**SSFL Phase 3 Chain of Custody**

CDM Smith  
 Date Shipped: 4/26/2012  
 Carrier Name:  
 Airbill No:

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120426-02  
 Cooler #:  
 Lab: Lancaster Laboratories, Inc.  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCs 8082	Herbicides 8151	Hex CF 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GR0 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Enterics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Methyl Mercury 1630	Other Analysis/Notes			
SL-522-SA5C-SB-0.0-0.5	4/25/12 11:20	SO	None	1 - SS-Sleeve	10 day	X																															
SL-523-SA5C-SB-0.0-0.5	4/25/12 14:00	SO	None	1 - SS-Sleeve	10 day	X																															
SL-530-SA5C-SB-0.0-0.5	4/25/12 10:30	SO	None	1 - SS-Sleeve	10 day	X																															
SL-531-SA5C-SB-0.0-0.5	4/25/12 13:25	SO	None	1 - SS-Sleeve	10 day	X																															
SL-623-SA5C-SB-0.0-0.5	4/25/12 09:55	SO	None	1 - SS-Sleeve	10 day	X																															
SL-702-SA5C-SB-0.0-0.5	4/26/12 10:55	SO	None	1 - SS-Sleeve	10 day	X																															
SL-695-SA5C-SB-0.0-0.5MS	4/26/12 09:25	SO	None	1 - SS-Sleeve	10 day																																
SL-995-SA5C-SB-0.0-0.5	4/26/12 09:30	SO	None	1 - SS-Sleeve	10 day																																
EB-042612	4/26/12 14:50	WQ	None	2 - 1 L Amber	10 day	X																															
SL-708-SA5C-SB-0.0-0.5	4/26/12 14:10	SO	None	1 - SS-Sleeve	10 day	X																															
SL-711-SA5C-SB-0.0-0.5	4/26/12 14:40	SO	None	1 - SS-Sleeve	10 day	X																															

MS/MSD

Special Instructions: The E:B collection time was updated per PH. The bottle labels and sample ID confirm this change. NY 4/30/12

SAMPLES TRANSFERRED FROM  
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	4/26/12									

*Brunny* 4-27-12 1005  
*Brunny*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 10, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 05/03/2012  
Group Number: 1306436  
SDG: PT005  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

Client Sample Description

SL-715-SA5C-SB-0.0-0.5 Soil

Lancaster Labs (LLI) #

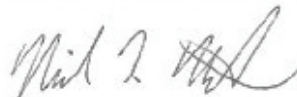
6638610

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
1 COPY TO CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259



Lancaster  
Laboratories

# ***Analysis Report***

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

**Sample Description:** SL-715-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-715-SA5C-SB

LLI Sample # SW 6638610  
LLI Group # 1306436  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 10:22

Suite 400

Fairfax VA 22030

S-715 SDG#: PT005-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	630 U	630	1,600	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121280008A	05/08/2012 18:59	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121280008A	05/07/2012 13:30	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12129162401B	05/08/2012 12:43	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/10/12 at 10:22 AM

Group Number: 1306436

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121280008A 20a Formaldehyde 8315A	600 U	600.	1,500	ug/kg	104		80-126		
Batch number: 12129162401B Moisture Content by 160.3					100		80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121280008A 20a Formaldehyde 8315A	106	103	80-120	3	50				
Batch number: 12129162401B Moisture Content by 160.3						6.9	14.5	72*	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121280008A  
Butyraldehyde

6638610	103
Blank	104
LCS	104
MS	103
MSD	112

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

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Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 10, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 05/03/2012  
Group Number: 1306440  
SDG: PH004  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-712-SA5C-SB-0.0-0.5 Soil	6638643
SL-713-SA5C-SB-0.0-0.5 Soil	6638644
SL-715-SA5C-SB-0.0-0.5 Soil	6638645
SL-720-SA5C-SB-0.0-0.5 Soil	6638646
SL-722-SA5C-SB-0.0-0.5 Soil	6638647
SL-722-SA5C-SB-0.0-0.5 MS Soil	6638648
SL-722-SA5C-SB-0.0-0.5 MSD Soil	6638649
SL-1022-SA5C-SB-0.0-0.5 Soil	6638650
SL-587-SA5C-SB-0.0-0.5 Soil	6638651
SL-716-SA5C-SB-0.0-0.5 Soil	6638652
SL-717-SA5C-SB-0.0-0.5 Soil	6638653
SL-718-SA5C-SB-0.0-0.5 Soil	6638654
SL-719-SA5C-SB-0.0-0.5 Soil	6638655
SL-599-SA5C-SB-0.0-0.5 Soil	6638656
SL-600-SA5C-SB-0.0-0.5 Soil	6638657
SL-591-SA5C-SB-0.0-0.5 Soil	6638658

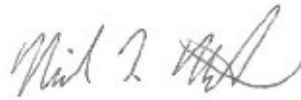
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program  
COPY TO  
ELECTRONIC Data Package Group

Attn: Todd Burgesser

COPY TO

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-712-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-712-SA5C-SB

LLI Sample # SW 6638643  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 11:35

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 18:33

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SL712 SDG#: PH004-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-712-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-712-SA5C-SB

LLI Sample # SW 6638643  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

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SL712 SDG#: PH004-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0237	J	0.0161	1.04	1
11031	12378-PeCDD	40321-76-4	0.215	JB	0.0230	5.21	1
11031	123478-HxCDD	39227-28-6	0.336	J	0.0358	5.21	1
11031	123678-HxCDD	57653-85-7	0.985	JB	0.0371	5.21	1
11031	123789-HxCDD	19408-74-3	0.711	JB	0.0356	5.21	1
11031	1234678-HpCDD	35822-46-9	24.5	B	0.0489	5.21	1
11031	OCDD	3268-87-9	297	B	0.0263	10.4	1
11031	2378-TCDF	51207-31-9	0.0591	JB	0.0289	1.04	1
11031	12378-PeCDF	57117-41-6	0.384	JB	0.0183	5.21	1
11031	23478-PeCDF	57117-31-4	0.178	JB	0.0179	5.21	1
11031	123478-HxCDF	70648-26-9	0.375	JB	0.0226	5.21	1
11031	123678-HxCDF	57117-44-9	0.240	JB	0.0207	5.21	1
11031	123789-HxCDF	72918-21-9	0.236	JB	0.0246	5.21	1
11031	234678-HxCDF	60851-34-5	0.279	JB	0.0206	5.21	1
11031	1234678-HpCDF	67562-39-4	4.23	JB	0.0237	5.21	1
11031	1234789-HpCDF	55673-89-7	0.333	JB	0.0331	5.21	1
11031	OCDF	39001-02-0	10.8	B	0.0165	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-712-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-712-SA5C-SB

LLI Sample # SW 6638643  
 LLI Group # 1306440  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 11:35

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Submitted: 05/03/2012 09:15

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SL712 SDG#: PH004-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-712-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-712-SA5C-SB

LLI Sample # SW 6638643  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 11:35

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Submitted: 05/03/2012 09:15

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SL712 SDG#: PH004-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/08/2012 20:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-713-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-713-SA5C-SB

LLI Sample # SW 6638644  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 14:15

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Submitted: 05/03/2012 09:15

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SL713 SDG#: PH004-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	5.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-713-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-713-SA5C-SB

LLI Sample # SW 6638644  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 14:15

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SL713 SDG#: PH004-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0378	J	0.0257	1.05	1
11031	12378-PeCDD	40321-76-4	0.624	JB	0.0679	5.26	1
11031	123478-HxCDD	39227-28-6	0.388	J	0.0298	5.26	1
11031	123678-HxCDD	57653-85-7	1.35	JB	0.0326	5.26	1
11031	123789-HxCDD	19408-74-3	0.927	JB	0.0314	5.26	1
11031	1234678-HpCDD	35822-46-9	12.0	B	0.0362	5.26	1
11031	OCDD	3268-87-9	121	B	0.0201	10.5	1
11031	2378-TCDF	51207-31-9	0.0927	U	0.0927	1.05	1
11031	12378-PeCDF	57117-41-6	1.64	JB	0.0442	5.26	1
11031	23478-PeCDF	57117-31-4	2.14	JB	0.0417	5.26	1
11031	123478-HxCDF	70648-26-9	1.70	JB	0.0344	5.26	1
11031	123678-HxCDF	57117-44-9	0.697	JB	0.0316	5.26	1
11031	123789-HxCDF	72918-21-9	0.855	JB	0.0340	5.26	1
11031	234678-HxCDF	60851-34-5	0.869	JB	0.0281	5.26	1
11031	1234678-HpCDF	67562-39-4	2.11	JB	0.0188	5.26	1
11031	1234789-HpCDF	55673-89-7	0.373	JB	0.0239	5.26	1
11031	OCDF	39001-02-0	4.19	JB	0.0162	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	95	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	65	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-713-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-713-SA5C-SB

**LLI Sample #** SW 6638644  
**LLI Group #** 1306440  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 14:15

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL713 SDG#: PH004-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-713-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-713-SA5C-SB

LLI Sample # SW 6638644  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 14:15

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Submitted: 05/03/2012 09:15

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SL713 SDG#: PH004-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/08/2012 20:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-715-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-715-SA5C-SB

LLI Sample # SW 6638645  
 LLI Group # 1306440  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL715 SDG#: PH004-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 4.5	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

Sample Description: SL-715-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-715-SA5C-SB

LLI Sample # SW 6638645  
LLI Group # 1306440  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 04/30/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL715 SDG#: PH004-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0163	U	0.0163	1.03	1
11031	12378-PeCDD	40321-76-4	0.282	JB	0.0415	5.17	1
11031	123478-HxCDD	39227-28-6	0.229	J	0.0284	5.17	1
11031	123678-HxCDD	57653-85-7	0.825	JB	0.0307	5.17	1
11031	123789-HxCDD	19408-74-3	0.720	JB	0.0292	5.17	1
11031	1234678-HpCDD	35822-46-9	11.7	B	0.0347	5.17	1
11031	OCDD	3268-87-9	119	B	0.0183	10.3	1
11031	2378-TCDF	51207-31-9	0.0638	U	0.0638	1.03	1
11031	12378-PeCDF	57117-41-6	0.923	JB	0.0299	5.17	1
11031	23478-PeCDF	57117-31-4	0.826	JB	0.0287	5.17	1
11031	123478-HxCDF	70648-26-9	0.711	JB	0.0213	5.17	1
11031	123678-HxCDF	57117-44-9	0.300	JB	0.0194	5.17	1
11031	123789-HxCDF	72918-21-9	0.478	JB	0.0213	5.17	1
11031	234678-HxCDF	60851-34-5	0.379	JB	0.0173	5.17	1
11031	1234678-HpCDF	67562-39-4	1.80	JB	0.0169	5.17	1
11031	1234789-HpCDF	55673-89-7	0.266	JB	0.0231	5.17	1
11031	OCDF	39001-02-0	3.90	JB	0.0154	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	96	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-715-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-715-SA5C-SB

LLI Sample # SW 6638645  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

Suite 400

Fairfax VA 22030

SL715 SDG#: PH004-03

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-715-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-715-SA5C-SB

LLI Sample # SW 6638645  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 18:33

Suite 400

Fairfax VA 22030

SL715 SDG#: PH004-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/08/2012 21:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11625	Moisture CDM	EPA 160.3 modified	1	12129162401B	05/08/2012 12:43	William C Schwebel	1

**Sample Description:** SL-720-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-720-SA5C-SB

LLI Sample # SW 6638646  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 15:30

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL720 SDG#: PH004-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	5.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-720-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-720-SA5C-SB

LLI Sample # SW 6638646  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 15:30

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL720 SDG#: PH004-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0338	J	0.0168	1.06	1
11031	12378-PeCDD	40321-76-4	0.258	JB	0.0405	5.30	1
11031	123478-HxCDD	39227-28-6	0.277	J	0.0325	5.30	1
11031	123678-HxCDD	57653-85-7	1.15	JB	0.0371	5.30	1
11031	123789-HxCDD	19408-74-3	0.878	JB	0.0351	5.30	1
11031	1234678-HpCDD	35822-46-9	22.8	B	0.0501	5.30	1
11031	OCDD	3268-87-9	210	B	0.0232	10.6	1
11031	2378-TCDF	51207-31-9	0.0943	JB	0.0341	1.06	1
11031	12378-PeCDF	57117-41-6	0.603	JB	0.0213	5.30	1
11031	23478-PeCDF	57117-31-4	0.219	JB	0.0200	5.30	1
11031	123478-HxCDF	70648-26-9	0.458	JB	0.0226	5.30	1
11031	123678-HxCDF	57117-44-9	0.283	JB	0.0233	5.30	1
11031	123789-HxCDF	72918-21-9	0.351	JB	0.0219	5.30	1
11031	234678-HxCDF	60851-34-5	0.338	JB	0.0185	5.30	1
11031	1234678-HpCDF	67562-39-4	2.14	JB	0.0200	5.30	1
11031	1234789-HpCDF	55673-89-7	0.221	JB	0.0254	5.30	1
11031	OCDF	39001-02-0	4.55	JB	0.0149	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	96	32 - 141
13C12-123678-HxCDD	91	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	100	28 - 136
13C12-123789-HxCDF	93	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	66	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-720-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-720-SA5C-SB

LLI Sample # SW 6638646  
 LLI Group # 1306440  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 15:30

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Submitted: 05/03/2012 09:15

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SL720 SDG#: PH004-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-720-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-720-SA5C-SB

LLI Sample # SW 6638646  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 04/30/2012 15:30

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SL720 SDG#: PH004-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/08/2012 22:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-722-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-722-SA5C-SB

LLI Sample # SW 6638647  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:25

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Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL722 SDG#: PH004-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-722-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-722-SA5C-SB

LLI Sample # SW 6638647  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL722 SDG#: PH004-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0113	U	0.0113	1.00	1
11031	12378-PeCDD	40321-76-4	0.0122	U	0.0122	5.01	1
11031	123478-HxCDD	39227-28-6	0.0148	U	0.0148	5.01	1
11031	123678-HxCDD	57653-85-7	0.0936	JB	0.0159	5.01	1
11031	123789-HxCDD	19408-74-3	0.0674	JB	0.0159	5.01	1
11031	1234678-HpCDD	35822-46-9	1.81	JB	0.0173	5.01	1
11031	OCDD	3268-87-9	15.2	B	0.0188	10.0	1
11031	2378-TCDF	51207-31-9	0.0159	JBQ	0.0110	1.00	1
11031	12378-PeCDF	57117-41-6	0.0335	JBQ	0.00784	5.01	1
11031	23478-PeCDF	57117-31-4	0.0448	JBQ	0.00742	5.01	1
11031	123478-HxCDF	70648-26-9	0.0527	JB	0.0115	5.01	1
11031	123678-HxCDF	57117-44-9	0.0286	JB	0.0106	5.01	1
11031	123789-HxCDF	72918-21-9	0.0127	JB	0.0116	5.01	1
11031	234678-HxCDF	60851-34-5	0.0342	JBQ	0.00909	5.01	1
11031	1234678-HpCDF	67562-39-4	0.361	JB	0.0100	5.01	1
11031	1234789-HpCDF	55673-89-7	0.0374	JBQ	0.0134	5.01	1
11031	OCDF	39001-02-0	1.10	JB	0.0153	10.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	106	32 - 141
13C12-123678-HxCDD	100	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	91	26 - 152
13C12-123678-HxCDF	94	26 - 123
13C12-234678-HxCDF	110	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	70	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-722-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-722-SA5C-SB

**LLI Sample #** SW 6638647  
**LLI Group #** 1306440  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL722 SDG#: PH004-05BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-722-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-722-SA5C-SB

LLI Sample # SW 6638647  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL722 SDG#: PH004-05BKG

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/08/2012 23:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-722-SA5C-SB-0.0-0.5 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-722-SA5C-SB

LLI Sample # SW 6638648  
 LLI Group # 1306440  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL722 SDG#: PH004-05MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 4.3	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

Sample Description: SL-722-SA5C-SB-0.0-0.5 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-722-SA5C-SB

LLI Sample # SW 6638648  
LLI Group # 1306440  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/01/2012 13:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL722 SDG#: PH004-05MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	20.5		0.0245	1.03	1
11031	12378-PeCDD	40321-76-4	105	B	0.0223	5.14	1
11031	123478-HxCDD	39227-28-6	97.6		0.0248	5.14	1
11031	123678-HxCDD	57653-85-7	95.8	B	0.0264	5.14	1
11031	123789-HxCDD	19408-74-3	103	B	0.0247	5.14	1
11031	1234678-HpCDD	35822-46-9	101	B	0.0323	5.14	1
11031	OCDD	3268-87-9	202	B	0.0266	10.3	1
11031	2378-TCDF	51207-31-9	19.1	B	0.0227	1.03	1
11031	12378-PeCDF	57117-41-6	101	B	0.0232	5.14	1
11031	23478-PeCDF	57117-31-4	94.6	B	0.0224	5.14	1
11031	123478-HxCDF	70648-26-9	99.2	B	0.0338	5.14	1
11031	123678-HxCDF	57117-44-9	99.3	B	0.0319	5.14	1
11031	123789-HxCDF	72918-21-9	99.1	B	0.0357	5.14	1
11031	234678-HxCDF	60851-34-5	95.1	B	0.0293	5.14	1
11031	1234678-HpCDF	67562-39-4	94.0	B	0.0272	5.14	1
11031	1234789-HpCDF	55673-89-7	96.3	B	0.0392	5.14	1
11031	OCDF	39001-02-0	197	B	0.0248	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	60	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-722-SA5C-SB-0.0-0.5 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-722-SA5C-SB

LLI Sample # SW 6638648  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:25

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Submitted: 05/03/2012 09:15

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SL722 SDG#: PH004-05MS

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-722-SA5C-SB-0.0-0.5 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-722-SA5C-SB

**LLI Sample #** SW 6638648  
**LLI Group #** 1306440  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL722 SDG#: PH004-05MS

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/09/2012 00:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11625	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-722-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-722-SA5C-SB

LLI Sample # SW 6638649  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL722 SDG#: PH004-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11625	Moisture CDM	n.a.	4.3	0.50	0.50	1
11626	Moisture Duplicate CDM	n.a.	4.4	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

Sample Description: SL-722-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-722-SA5C-SB

LLI Sample # SW 6638649  
LLI Group # 1306440  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/01/2012 13:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL722 SDG#: PH004-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	20.6		0.0200	1.02	1
11031	12378-PeCDD	40321-76-4	103	B	0.0206	5.12	1
11031	123478-HxCDD	39227-28-6	96.1		0.0255	5.12	1
11031	123678-HxCDD	57653-85-7	96.3	B	0.0265	5.12	1
11031	123789-HxCDD	19408-74-3	104	B	0.0254	5.12	1
11031	1234678-HpCDD	35822-46-9	102	B	0.0324	5.12	1
11031	OCDD	3268-87-9	204	B	0.0260	10.2	1
11031	2378-TCDF	51207-31-9	19.5	B	0.0232	1.02	1
11031	12378-PeCDF	57117-41-6	100	B	0.0206	5.12	1
11031	23478-PeCDF	57117-31-4	95.7	B	0.0202	5.12	1
11031	123478-HxCDF	70648-26-9	99.4	B	0.0294	5.12	1
11031	123678-HxCDF	57117-44-9	100	B	0.0274	5.12	1
11031	123789-HxCDF	72918-21-9	98.9	B	0.0299	5.12	1
11031	234678-HxCDF	60851-34-5	96.8	B	0.0281	5.12	1
11031	1234678-HpCDF	67562-39-4	93.5	B	0.0234	5.12	1
11031	1234789-HpCDF	55673-89-7	98.4	B	0.0324	5.12	1
11031	OCDF	39001-02-0	193	B	0.0275	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	65	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-722-SA5C-SB-0.0-0.5 MSD Soil  
 SSFL Phase 3 Soil Sampling  
 SL-722-SA5C-SB

LLI Sample # SW 6638649  
 LLI Group # 1306440  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 18:33

Suite 400

Fairfax VA 22030

SL722 SDG#: PH004-05MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-722-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-722-SA5C-SB

LLI Sample # SW 6638649  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL722 SDG#: PH004-05MSD

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/09/2012 04:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11625	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1
11626	Moisture Duplicate CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-1022-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-1022-SA5C-SB

LLI Sample # SW 6638650  
 LLI Group # 1306440  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:30

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 18:33

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Fairfax VA 22030

S1022 SDG#: PH004-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-1022-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-1022-SA5C-SB

LLI Sample # SW 6638650  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:30

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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S1022 SDG#: PH004-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0217 JQ	0.0120	1.03	1
11031	12378-PeCDD	40321-76-4	0.0822 JB	0.0133	5.15	1
11031	123478-HxCDD	39227-28-6	0.0367 J	0.0128	5.15	1
11031	123678-HxCDD	57653-85-7	0.0877 JBQ	0.0146	5.15	1
11031	123789-HxCDD	19408-74-3	0.0690 JB	0.0139	5.15	1
11031	1234678-HpCDD	35822-46-9	1.02 JB	0.0180	5.15	1
11031	OCDD	3268-87-9	7.29 JB	0.0152	10.3	1
11031	2378-TCDF	51207-31-9	0.0348 JB	0.0111	1.03	1
11031	12378-PeCDF	57117-41-6	0.116 JB	0.00908	5.15	1
11031	23478-PeCDF	57117-31-4	0.115 JB	0.00877	5.15	1
11031	123478-HxCDF	70648-26-9	0.0695 JB	0.0116	5.15	1
11031	123678-HxCDF	57117-44-9	0.0722 JB	0.0102	5.15	1
11031	123789-HxCDF	72918-21-9	0.0625 JB	0.0115	5.15	1
11031	234678-HxCDF	60851-34-5	0.0761 JBQ	0.0100	5.15	1
11031	1234678-HpCDF	67562-39-4	0.230 JB	0.00908	5.15	1
11031	1234789-HpCDF	55673-89-7	0.0621 JB	0.0132	5.15	1
11031	OCDF	39001-02-0	0.559 JB	0.0172	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	63	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-1022-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-1022-SA5C-SB

LLI Sample # SW 6638650  
 LLI Group # 1306440  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:30

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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S1022 SDG#: PH004-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-1022-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-1022-SA5C-SB

LLI Sample # SW 6638650  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/01/2012 13:30

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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S1022 SDG#: PH004-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/09/2012 05:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-587-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6638651  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 11:35

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL587 SDG#: PH004-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-587-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6638651  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 11:35

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL587 SDG#: PH004-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.101 JQ	0.0163	1.16	1
11031	12378-PeCDD	40321-76-4	0.279 JBQ	0.0218	5.80	1
11031	123478-HxCDD	39227-28-6	0.214 J	0.0344	5.80	1
11031	123678-HxCDD	57653-85-7	1.07 JB	0.0350	5.80	1
11031	123789-HxCDD	19408-74-3	0.778 JB	0.0346	5.80	1
11031	1234678-HpCDD	35822-46-9	44.2 B	0.0638	5.80	1
11031	OCDD	3268-87-9	578 B	0.0467	11.6	1
11031	2378-TCDF	51207-31-9	0.164 JB	0.0443	1.16	1
11031	12378-PeCDF	57117-41-6	0.520 JB	0.0302	5.80	1
11031	23478-PeCDF	57117-31-4	0.536 JB	0.0286	5.80	1
11031	123478-HxCDF	70648-26-9	0.366 JB	0.0332	5.80	1
11031	123678-HxCDF	57117-44-9	0.239 JB	0.0308	5.80	1
11031	123789-HxCDF	72918-21-9	0.408 JB	0.0315	5.80	1
11031	234678-HxCDF	60851-34-5	0.254 JB	0.0285	5.80	1
11031	1234678-HpCDF	67562-39-4	3.14 JB	0.0259	5.80	1
11031	1234789-HpCDF	55673-89-7	0.269 JB	0.0312	5.80	1
11031	OCDF	39001-02-0	10.2 JB	0.0204	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	65	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-587-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-587-SA5C-SB

LLI Sample # SW 6638651  
 LLI Group # 1306440  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 11:35

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL587 SDG#: PH004-07

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-587-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6638651  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 11:35

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL587 SDG#: PH004-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/09/2012 06:36	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-716-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-716-SA5C-SB

LLI Sample # SW 6638652  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 08:35

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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Fairfax VA 22030

SL716 SDG#: PH004-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-716-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-716-SA5C-SB

LLI Sample # SW 6638652  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 08:35

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL716 SDG#: PH004-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0714	J	0.0128	1.04	1
11031	12378-PeCDD	40321-76-4	0.114	JB	0.0197	5.19	1
11031	123478-HxCDD	39227-28-6	0.123	J	0.0279	5.19	1
11031	123678-HxCDD	57653-85-7	0.527	JB	0.0301	5.19	1
11031	123789-HxCDD	19408-74-3	0.313	JB	0.0298	5.19	1
11031	1234678-HpCDD	35822-46-9	14.7	B	0.0430	5.19	1
11031	OCDD	3268-87-9	158	B	0.0226	10.4	1
11031	2378-TCDF	51207-31-9	0.0534	JB	0.0315	1.04	1
11031	12378-PeCDF	57117-41-6	0.489	JB	0.0168	5.19	1
11031	23478-PeCDF	57117-31-4	0.165	JB	0.0161	5.19	1
11031	123478-HxCDF	70648-26-9	0.305	JB	0.0205	5.19	1
11031	123678-HxCDF	57117-44-9	0.168	JB	0.0197	5.19	1
11031	123789-HxCDF	72918-21-9	0.189	JBQ	0.0219	5.19	1
11031	234678-HxCDF	60851-34-5	0.158	JBQ	0.0163	5.19	1
11031	1234678-HpCDF	67562-39-4	2.17	JB	0.0255	5.19	1
11031	1234789-HpCDF	55673-89-7	0.213	JBQ	0.0322	5.19	1
11031	OCDF	39001-02-0	10.0	JB	0.0207	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	94	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	101	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	68	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-716-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-716-SA5C-SB

LLI Sample # SW 6638652  
 LLI Group # 1306440  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 08:35

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Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL716 SDG#: PH004-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-716-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-716-SA5C-SB

LLI Sample # SW 6638652  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 08:35

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL716 SDG#: PH004-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/09/2012 07:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-717-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-717-SA5C-SB

LLI Sample # SW 6638653  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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Fairfax VA 22030

SL717 SDG#: PH004-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	3.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-717-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-717-SA5C-SB

LLI Sample # SW 6638653  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

Suite 400

Fairfax VA 22030

SL717 SDG#: PH004-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0483	J	0.0143	1.02	1
11031	12378-PeCDD	40321-76-4	0.0674	JBQ	0.0147	5.11	1
11031	123478-HxCDD	39227-28-6	0.0694	J	0.0201	5.11	1
11031	123678-HxCDD	57653-85-7	0.165	JB	0.0220	5.11	1
11031	123789-HxCDD	19408-74-3	0.110	JB	0.0198	5.11	1
11031	1234678-HpCDD	35822-46-9	2.96	JB	0.0254	5.11	1
11031	OCDD	3268-87-9	28.9	B	0.0250	10.2	1
11031	2378-TCDF	51207-31-9	0.0293	JBQ	0.0135	1.02	1
11031	12378-PeCDF	57117-41-6	0.0994	JBQ	0.0104	5.11	1
11031	23478-PeCDF	57117-31-4	0.0829	JB	0.0106	5.11	1
11031	123478-HxCDF	70648-26-9	0.0951	JB	0.0167	5.11	1
11031	123678-HxCDF	57117-44-9	0.0453	JB	0.0146	5.11	1
11031	123789-HxCDF	72918-21-9	0.0373	JB	0.0177	5.11	1
11031	234678-HxCDF	60851-34-5	0.0704	JB	0.0149	5.11	1
11031	1234678-HpCDF	67562-39-4	0.470	JB	0.0152	5.11	1
11031	1234789-HpCDF	55673-89-7	0.0405	JB	0.0220	5.11	1
11031	OCDF	39001-02-0	1.13	JB	0.0190	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	61	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-717-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-717-SA5C-SB

LLI Sample # SW 6638653  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL717 SDG#: PH004-09

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-717-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-717-SA5C-SB

LLI Sample # SW 6638653  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL717 SDG#: PH004-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/09/2012 17:12	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-718-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-718-SA5C-SB

LLI Sample # SW 6638654  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 09:35

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL718 SDG#: PH004-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	3.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-718-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-718-SA5C-SB

LLI Sample # SW 6638654  
LLI Group # 1306440  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/02/2012 09:35

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL718 SDG#: PH004-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0158	U	0.0158	1
11031	12378-PeCDD	40321-76-4	0.0892	JBQ	0.0201	1
11031	123478-HxCDD	39227-28-6	0.0876	J	0.0309	1
11031	123678-HxCDD	57653-85-7	0.446	JB	0.0323	1
11031	123789-HxCDD	19408-74-3	0.240	JB	0.0305	1
11031	1234678-HpCDD	35822-46-9	13.1	B	0.0379	1
11031	OCDD	3268-87-9	130	B	0.0213	1
11031	2378-TCDF	51207-31-9	0.0308	U	0.0308	1
11031	12378-PeCDF	57117-41-6	0.276	JB	0.0161	1
11031	23478-PeCDF	57117-31-4	0.130	JB	0.0155	1
11031	123478-HxCDF	70648-26-9	0.329	JB	0.0228	1
11031	123678-HxCDF	57117-44-9	0.148	JB	0.0221	1
11031	123789-HxCDF	72918-21-9	0.171	JB	0.0233	1
11031	234678-HxCDF	60851-34-5	0.192	JB	0.0210	1
11031	1234678-HpCDF	67562-39-4	2.29	JB	0.0223	1
11031	1234789-HpCDF	55673-89-7	0.213	JBQ	0.0302	1
11031	OCDF	39001-02-0	10.5	B	0.0185	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	65	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-718-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-718-SA5C-SB

LLI Sample # SW 6638654  
 LLI Group # 1306440  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 09:35

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SL718 SDG#: PH004-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-718-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-718-SA5C-SB

LLI Sample # SW 6638654  
 LLI Group # 1306440  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 09:35

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL718 SDG#: PH004-10

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/09/2012 09:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-719-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-719-SA5C-SB

LLI Sample # SW 6638655  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL719 SDG#: PH004-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-719-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-719-SA5C-SB

LLI Sample # SW 6638655  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 10:00

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Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL719 SDG#: PH004-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0175	J	0.0158	1.03	1
11031	12378-PeCDD	40321-76-4	0.109	JB	0.0220	5.17	1
11031	123478-HxCDD	39227-28-6	0.195	J	0.0462	5.17	1
11031	123678-HxCDD	57653-85-7	1.26	JB	0.0501	5.17	1
11031	123789-HxCDD	19408-74-3	0.484	JB	0.0496	5.17	1
11031	1234678-HpCDD	35822-46-9	51.1	B	0.0645	5.17	1
11031	OCDD	3268-87-9	598	B	0.0374	10.3	1
11031	2378-TCDF	51207-31-9	0.0425	U	0.0425	1.03	1
11031	12378-PeCDF	57117-41-6	0.559	JB	0.0210	5.17	1
11031	23478-PeCDF	57117-31-4	0.254	JB	0.0200	5.17	1
11031	123478-HxCDF	70648-26-9	0.805	JB	0.0263	5.17	1
11031	123678-HxCDF	57117-44-9	0.447	JB	0.0248	5.17	1
11031	123789-HxCDF	72918-21-9	0.311	JB	0.0275	5.17	1
11031	234678-HxCDF	60851-34-5	0.454	JB	0.0215	5.17	1
11031	1234678-HpCDF	67562-39-4	6.53	B	0.0247	5.17	1
11031	1234789-HpCDF	55673-89-7	0.848	JB	0.0330	5.17	1
11031	OCDF	39001-02-0	12.7	B	0.0208	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	96	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	65	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-719-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-719-SA5C-SB

LLI Sample # SW 6638655  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL719 SDG#: PH004-11

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-719-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-719-SA5C-SB

LLI Sample # SW 6638655  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL719 SDG#: PH004-11

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/09/2012 10:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-599-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-599-SA5C-SB

LLI Sample # SW 6638656  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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SL599 SDG#: PH004-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-599-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-599-SA5C-SB

LLI Sample # SW 6638656  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL599 SDG#: PH004-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0310	J	0.0195	1.06	1
11031	12378-PeCDD	40321-76-4	0.323	JB	0.0361	5.31	1
11031	123478-HxCDD	39227-28-6	0.582	J	0.0437	5.31	1
11031	123678-HxCDD	57653-85-7	2.59	JB	0.0452	5.31	1
11031	123789-HxCDD	19408-74-3	1.32	JB	0.0445	5.31	1
11031	1234678-HpCDD	35822-46-9	97.9	B	0.0911	5.31	1
11031	OCDD	3268-87-9	979	B	0.0444	10.6	1
11031	2378-TCDF	51207-31-9	0.548	JB	0.103	1.06	1
11031	12378-PeCDF	57117-41-6	2.88	JB	0.0615	5.31	1
11031	23478-PeCDF	57117-31-4	1.85	JB	0.0550	5.31	1
11031	123478-HxCDF	70648-26-9	0.947	JB	0.0352	5.31	1
11031	123678-HxCDF	57117-44-9	0.878	JB	0.0344	5.31	1
11031	123789-HxCDF	72918-21-9	0.430	JB	0.0328	5.31	1
11031	234678-HxCDF	60851-34-5	1.16	JB	0.0280	5.31	1
11031	1234678-HpCDF	67562-39-4	8.91	B	0.0337	5.31	1
11031	1234789-HpCDF	55673-89-7	0.859	JB	0.0385	5.31	1
11031	OCDF	39001-02-0	16.9	B	0.0190	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	100	32 - 141
13C12-123678-HxCDD	96	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	102	28 - 136
13C12-123789-HxCDF	94	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	79	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-599-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-599-SA5C-SB

LLI Sample # SW 6638656  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 14:45

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SL599 SDG#: PH004-12

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-599-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-599-SA5C-SB

LLI Sample # SW 6638656  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

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Reported: 05/10/2012 18:33

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SL599 SDG#: PH004-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/09/2012 11:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-600-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-600-SA5C-SB

LLI Sample # SW 6638657  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 14:15

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 18:33

Suite 400

Fairfax VA 22030

SL600 SDG#: PH004-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	16.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-600-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-600-SA5C-SB

LLI Sample # SW 6638657  
LLI Group # 1306440  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/02/2012 14:15

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 18:33

Suite 400

Fairfax VA 22030

SL600 SDG#: PH004-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0304	J	0.0213	1.17	1
11031	12378-PeCDD	40321-76-4	0.338	JB	0.0441	5.84	1
11031	123478-HxCDD	39227-28-6	0.391	J	0.0321	5.84	1
11031	123678-HxCDD	57653-85-7	2.16	JB	0.0374	5.84	1
11031	123789-HxCDD	19408-74-3	1.49	JB	0.0360	5.84	1
11031	1234678-HpCDD	35822-46-9	16.7	B	0.0399	5.84	1
11031	OCDD	3268-87-9	178	B	0.0378	11.7	1
11031	2378-TCDF	51207-31-9	0.203	JB	0.0768	1.17	1
11031	12378-PeCDF	57117-41-6	0.662	JB	0.0439	5.84	1
11031	23478-PeCDF	57117-31-4	4.09	JB	0.0443	5.84	1
11031	123478-HxCDF	70648-26-9	0.657	JB	0.0366	5.84	1
11031	123678-HxCDF	57117-44-9	0.932	JB	0.0313	5.84	1
11031	123789-HxCDF	72918-21-9	0.675	JB	0.0316	5.84	1
11031	234678-HxCDF	60851-34-5	1.71	JB	0.0280	5.84	1
11031	1234678-HpCDF	67562-39-4	2.56	JB	0.0294	5.84	1
11031	1234789-HpCDF	55673-89-7	0.285	JB	0.0402	5.84	1
11031	OCDF	39001-02-0	5.27	JB	0.0294	11.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	100	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	97	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-600-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-600-SA5C-SB

LLI Sample # SW 6638657  
 LLI Group # 1306440  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 14:15

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 18:33

Suite 400

Fairfax VA 22030

SL600 SDG#: PH004-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-600-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-600-SA5C-SB

LLI Sample # SW 6638657  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 14:15

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 18:33

Suite 400

Fairfax VA 22030

SL600 SDG#: PH004-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/09/2012 12:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-591-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-591-SA5C-SB

LLI Sample # SW 6638658  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 15:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 18:33

Suite 400

Fairfax VA 22030

SL591 SDG#: PH004-14\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-591-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-591-SA5C-SB

LLI Sample # SW 6638658  
LLI Group # 1306440  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/02/2012 15:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 18:33

Suite 400

Fairfax VA 22030

SL591 SDG#: PH004-14\*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0658	J	0.0195	1.11	1
11031	12378-PeCDD	40321-76-4	0.192	JB	0.0207	5.54	1
11031	123478-HxCDD	39227-28-6	0.164	J	0.0357	5.54	1
11031	123678-HxCDD	57653-85-7	0.541	JB	0.0367	5.54	1
11031	123789-HxCDD	19408-74-3	0.574	JB	0.0359	5.54	1
11031	1234678-HpCDD	35822-46-9	7.86	B	0.0274	5.54	1
11031	OCDD	3268-87-9	96.9	B	0.0308	11.1	1
11031	2378-TCDF	51207-31-9	0.155	JB	0.0387	1.11	1
11031	12378-PeCDF	57117-41-6	0.184	JB	0.0230	5.54	1
11031	23478-PeCDF	57117-31-4	0.297	JB	0.0205	5.54	1
11031	123478-HxCDF	70648-26-9	0.152	JB	0.0260	5.54	1
11031	123678-HxCDF	57117-44-9	0.216	JBQ	0.0251	5.54	1
11031	123789-HxCDF	72918-21-9	0.191	JB	0.0254	5.54	1
11031	234678-HxCDF	60851-34-5	0.191	JB	0.0218	5.54	1
11031	1234678-HpCDF	67562-39-4	1.73	JB	0.0348	5.54	1
11031	1234789-HpCDF	55673-89-7	0.217	JB	0.0331	5.54	1
11031	OCDF	39001-02-0	4.08	JB	0.0371	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	99	25 - 164
13C12-12378-PeCDD	99	25 - 181
13C12-123478-HxCDD	99	32 - 141
13C12-123678-HxCDD	100	28 - 130
13C12-123789-HxCDD	101	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	99	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	97	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	102	28 - 136
13C12-123789-HxCDF	98	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	57	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-591-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-591-SA5C-SB

**LLI Sample #** SW 6638658  
**LLI Group #** 1306440  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 15:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 18:33

Suite 400

Fairfax VA 22030

SL591 SDG#: PH004-14\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-591-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-591-SA5C-SB

LLI Sample # SW 6638658  
LLI Group # 1306440  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 15:25

CDM Federal Programs Corp.

Submitted: 05/03/2012 09:15

3201 Jermantown Road

Reported: 05/10/2012 18:33

Suite 400

Fairfax VA 22030

SL591 SDG#: PH004-14\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12128002	05/09/2012 13:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12128002	05/07/2012 13:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12130162401A	05/09/2012 11:52	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/10/12 at 06:33 PM

Group Number: 1306440

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12129162401B Moisture CDM	Sample number(s): 6638645				100		80-120		
Batch number: 12130162401A Moisture CDM	Sample number(s): 6638643-6638644,6638646-6638658				100		80-120		
Moisture CDM					100		80-120		
Moisture Duplicate CDM					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12128002	Sample number(s): 6638643-6638658								
2378-TCDD	0.0129 U	0.0129	1.00	ng/kg	100		67-158		
12378-PeCDD	0.0183 J	0.0123	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0107 U	0.0107	5.00	ng/kg	93		70-164		
123678-HxCDD	0.0304 J	0.0113	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0197 J	0.0108	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.298 J	0.0150	5.00	ng/kg	98		70-140		
OCDD	0.438 J	0.0168	10.0	ng/kg	97		78-144		
2378-TCDF	0.0140 J	0.0110	1.00	ng/kg	95		75-158		
12378-PeCDF	0.0201 J	0.00790	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0389 J	0.00760	5.00	ng/kg	93		68-160		
123478-HxCDF	0.0360 J	0.00660	5.00	ng/kg	96		72-134		
123678-HxCDF	0.0217 J	0.00600	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0320 J	0.00670	5.00	ng/kg	98		78-130		
234678-HxCDF	0.0255 J	0.00640	5.00	ng/kg	94		70-156		
1234678-HpCDF	0.0847 J	0.00490	5.00	ng/kg	90		82-122		
1234789-HpCDF	0.0326 J	0.00740	5.00	ng/kg	94		78-138		
OCDF	0.102 J	0.0148	10.0	ng/kg	95		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12129162401B Moisture CDM	Sample number(s): 6638645			BKG: P640000		6.9	14.5	72*	20
Batch number: 12130162401A Moisture CDM	Sample number(s): 6638643-6638644,6638646-6638658			BKG: 6638647		4.3	4.4	2	20

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/10/12 at 06:33 PM

Group Number: 1306440

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u>	<u>RPD</u> <u>Max</u>
Moisture CDM					4.3	4.4	2	20	
Moisture Duplicate CDM					4.3	4.4	2	20	

Batch number: 12128002	Sample number(s): 6638643-6638658 UNSPK: 6638647								
2378-TCDD	100	101	67-158	1	25				
12378-PeCDD	102	101	70-142	2	25				
123478-HxCDD	95	94	70-164	2	25				
123678-HxCDD	93	94	76-134	0	25				
123789-HxCDD	100	102	64-162	1	25				
1234678-HpCDD	96	98	70-140	1	25				
OCDD	91	92	78-144	1	25				
2378-TCDF	93	95	75-158	2	25				
12378-PeCDF	99	98	80-134	1	25				
23478-PeCDF	92	93	68-160	1	25				
123478-HxCDF	96	97	72-134	0	25				
123678-HxCDF	97	98	84-130	1	25				
123789-HxCDF	96	97	78-130	0	25				
234678-HxCDF	92	95	70-156	2	25				
1234678-HpCDF	91	91	82-122	1	25				
1234789-HpCDF	94	96	78-138	2	25				
OCDF	95	94	63-170	2	25				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Dioxins/Furans in Solids-HRMS

Batch number: 12128002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6638643	84	80	82	85	86	78
6638644	82	79	80	83	95	83
6638645	84	83	83	87	96	83
6638646	89	86	86	85	100	93
6638647	90	87	91	94	110	88
6638648	75	74	75	80	84	77
6638649	79	77	82	85	82	81
6638650	81	77	81	85	88	81
6638651	89	80	81	83	91	87
6638652	85	81	84	86	101	85
6638653	79	75	78	84	81	75
6638654	82	78	84	85	88	85
6638655	79	78	82	84	96	81
6638656	84	80	84	84	102	94
6638657	82	80	80	84	97	86
6638658	99	97	83	89	102	98
Blank	74	74	80	84	82	81
MS	75	74	75	80	84	77
MSD	79	77	82	85	82	81

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/10/12 at 06:33 PM

Group Number: 1306440

### Surrogate Quality Control

OPR	83	80	81	88	83	84
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6638643	86	69	63	83	86	85
6638644	85	72	65	80	90	85
6638645	92	71	64	85	91	90
6638646	84	74	66	84	96	91
6638647	99	78	70	89	106	100
6638648	88	67	60	75	84	84
6638649	87	69	65	79	86	84
6638650	93	68	63	80	92	87
6638651	81	73	65	79	88	85
6638652	82	72	68	80	94	92
6638653	88	69	61	81	84	82
6638654	89	72	65	79	88	86
6638655	87	69	65	80	92	90
6638656	87	82	79	82	100	96
6638657	87	67	62	84	100	90
6638658	84	84	57	99	99	100
Blank	90	62	56	77	85	83
MS	88	67	60	75	84	84
MSD	87	69	65	79	86	84
OPR	96	67	57	83	89	87
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6638643	84	79	71	79	84	
6638644	83	77	73	79	83	
6638645	88	82	74	81	88	
6638646	89	78	72	85	86	
6638647	96	88	80	85	91	
6638648	83	79	72	71	79	
6638649	85	79	71	76	82	
6638650	87	82	74	76	84	
6638651	84	78	70	79	81	
6638652	88	80	73	84	84	
6638653	84	79	71	72	80	
6638654	86	81	72	80	84	
6638655	86	79	73	77	81	
6638656	93	85	84	78	81	
6638657	88	79	70	79	84	
6638658	101	87	61	99	96	
Blank	85	79	72	69	78	
MS	83	79	72	71	79	
MSD	85	79	71	76	82	
OPR	87	82	70	73	85	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct#13013 Cp#1306440

sample# 6638643-58

# SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 5/2/2012

Carrier Name: FedEx

Airbill No: 793522854901

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No:

20120502-02

Cooler #:

Lab:

Landcaster

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 3000/9056	SIOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314/0/331	Perchlorate Confirm 6850/6860	PH 9045 (Soil)	PH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EH 8015	Glycols 8015	Terphenyls 8015	Nitrates 3000/9056	Enthalpies 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes													
SL-712-SA5C-SB-0.0-0.5	4/30/12 11:35	SO	None	1 - SS-Sleeve	10 day																																												
SL-713-SA5C-SB-0.0-0.5	4/30/12 14:15	SO	None	1 - SS-Sleeve	10 day																																												
SL-715-SA5C-SB-0.0-0.5	4/30/12 14:45	SO	None	1 - SS-Sleeve	10 day																																												
SL-720-SA5C-SB-0.0-0.5	4/30/12 15:30	SO	None	1 - SS-Sleeve	10 day																																												
SL-722-SA5C-SB-0.0-0.5MS	5/1/12 13:25	SO	None	2 - SS-Sleeve	10 day																																												
SL-1022-SA5C-SB-0.0-0.5	5/1/12 13:30	SO	None	1 - SS-Sleeve	10 day																																												
SL-587-SA5C-SB-0.0-0.5	5/2/12 11:35	SO	None	1 - SS-Sleeve	10 day																																												
SL-716-SA5C-SB-0.0-0.5	5/2/12 08:35	SO	None	1 - SS-Sleeve	10 day																																												
SL-717-SA5C-SB-0.0-0.5	5/2/12 09:15	SO	None	1 - SS-Sleeve	10 day																																												
SL-718-SA5C-SB-0.0-0.5	5/2/12 09:35	SO	None	1 - SS-Sleeve	10 day																																												
SL-719-SA5C-SB-0.0-0.5	5/2/12 10:00	SO	None	1 - SS-Sleeve	10 day																																												
SL-599-SA5C-SB-0.0-0.5	5/2/12 14:45	SO	None	1 - SS-Sleeve	10 day																																												
SL-600-SA5C-SB-0.0-0.5	5/2/12 14:15	SO	None	1 - SS-Sleeve	10 day																																												
SL-591-SA5C-SB-0.0-0.5	5/2/12 15:25	SO	None	1 - SS-Sleeve	10 day																																												

Special Instructions: \_\_\_\_\_

SAMPLES TRANSFERRED FROM \_\_\_\_\_  
CHAIN OF CUSTODY # \_\_\_\_\_

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>Q. Name</i>	<i>05/02/12</i>							<i>Sharon Baker</i>	<i>5/3/12</i>	<i>0915</i>
<del>_____</del>											

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

## Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 09, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 05/04/2012  
Group Number: 1306697  
SDG: PT005  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

Client Sample Description

EB-050312 Water

Lancaster Labs (LLI) #

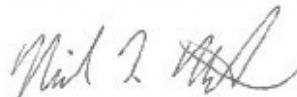
6639997

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
1 COPY TO CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259



Lancaster  
Laboratories

# ***Analysis Report***

---

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

Sample Description: **EB-050312 Water**  
**SSFL Phase 3 Soil Sampling**

LLI Sample # **WW 6639997**  
 LLI Group # **1306697**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 05/03/2012 14:50

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/09/2012 11:42

Suite 400

Fairfax VA 22030

EBF03 SDG#: PT005-02EB\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>							
	<b>SW-846 8315A</b>		<b>ug/l</b>		<b>ug/l</b>	<b>ug/l</b>	
04144	20b Formaldehyde 8315A	50-00-0	19 J		10	50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	20b Formaldehyde 8315A	SW-846 8315A	1	121250020A	05/07/2012 20:14	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	121250020A	05/05/2012 10:00	Olivia Arosemena	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/09/12 at 11:42 AM

Group Number: 1306697

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121250020A 20b Formaldehyde 8315A	Sample number(s): 6639997 10 U 10.	50	ug/l	90			69-130		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121250020A 20b Formaldehyde 8315A	Sample number(s): 6639997 86	88	80-120	2	30	UNSPK: P637143			

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20b Formaldehyde 8315A  
Batch number: 121250020A  
Butyraldehyde

6639997	115
Blank	87
LCS	99
MS	102
MSD	103
<hr/>	
Limits:	45-145

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

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<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
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## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 18, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 05/04/2012  
Group Number: 1306698  
SDG: PH005  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

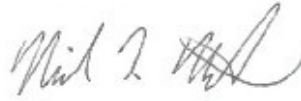
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-602-SA5C-SB-0.0-0.5 Soil	6639998
EB-050312 Water	6639999
SL-603-SA5C-SB-0.0-0.5 Soil	6640000
SL-603-SA5C-SB-0.0-0.5 MS Soil	6640001
SL-603-SA5C-SB-0.0-0.5 MSD Soil	6640002
SL-903-SA5C-SB-0.0-0.5 Soil	6640003
SL-606-SA5C-SB-0.0-0.5 Soil	6640004
SL-612-SA5C-SB-0.0-0.5 Soil	6640005
SL-596-SA5C-SB-2.0-3.0 Soil	6640006
SL-596-SA5C-SB-3.0-4.0 Soil	6640007

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-602-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-602-SA5C-SB

LLI Sample # SW 6639998  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 15:50

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL602 SDG#: PH005-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-602-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-602-SA5C-SB

LLI Sample # SW 6639998  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 15:50

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL602 SDG#: PH005-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>						
11031	2378-TCDD	1746-01-6	0.0786	JB 0.0252	1.06	1
11031	12378-PeCDD	40321-76-4	1.83	JB 0.0576	5.28	1
11031	123478-HxCDD	39227-28-6	3.29	JB 0.0530	5.28	1
11031	123678-HxCDD	57653-85-7	13.4	B 0.0544	5.28	1
11031	123789-HxCDD	19408-74-3	5.76	B 0.0556	5.28	1
11031	1234678-HpCDD	35822-46-9	276	B 0.149	5.28	1
11031	OCDD	3268-87-9	2,240	B 0.213	10.6	1
11031	2378-TCDF	51207-31-9	0.420	JB 0.0823	1.06	1
11031	12378-PeCDF	57117-41-6	2.39	JB 0.0475	5.28	1
11031	23478-PeCDF	57117-31-4	2.31	JB 0.0441	5.28	1
11031	123478-HxCDF	70648-26-9	3.17	JB 0.0454	5.28	1
11031	123678-HxCDF	57117-44-9	1.87	JB 0.0416	5.28	1
11031	123789-HxCDF	72918-21-9	1.55	JB 0.0465	5.28	1
11031	234678-HxCDF	60851-34-5	2.35	JB 0.0424	5.28	1
11031	1234678-HpCDF	67562-39-4	20.9	B 0.0487	5.28	1
11031	1234789-HpCDF	55673-89-7	1.92	JB 0.0613	5.28	1
11031	OCDF	39001-02-0	29.2	B 0.0508	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	64	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	66	28 - 130
13C12-1234678-HpCDD	59	23 - 140
13C12-OCDD	48	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	62	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	48	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-602-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-602-SA5C-SB

LLI Sample # SW 6639998  
 LLI Group # 1306698  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 15:50

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL602 SDG#: PH005-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-602-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-602-SA5C-SB

LLI Sample # SW 6639998  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/02/2012 15:50

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL602 SDG#: PH005-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/17/2012 20:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12129162401B	05/08/2012 12:43	William C Schwebel	1

Sample Description: **EB-050312 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB**

LLI Sample # **WW 6639999**  
 LLI Group # **1306698**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 05/03/2012 14:50

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

EB502 SDG#: PH005-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.376 U	0.376	1.98	1
10915	12378-PeCDD	40321-76-4	1.08 JB	0.628	9.89	1
10915	123478-HxCDD	39227-28-6	0.868 JBQ	0.350	9.89	1
10915	123678-HxCDD	57653-85-7	0.940 JBQ	0.356	9.89	1
10915	123789-HxCDD	19408-74-3	0.361 JBQ	0.349	9.89	1
10915	1234678-HpCDD	35822-46-9	5.48 JBQ	0.272	9.89	1
10915	OCDD	3268-87-9	21.5 B	0.549	19.8	1
10915	2378-TCDF	51207-31-9	0.379 JQ	0.221	1.98	1
10915	12378-PeCDF	57117-41-6	0.906 J	0.369	9.89	1
10915	23478-PeCDF	57117-31-4	1.19 JB	0.313	9.89	1
10915	123478-HxCDF	70648-26-9	0.796 JBQ	0.227	9.89	1
10915	123678-HxCDF	57117-44-9	0.322 JBQ	0.221	9.89	1
10915	123789-HxCDF	72918-21-9	0.539 JBQ	0.220	9.89	1
10915	234678-HxCDF	60851-34-5	0.740 JB	0.187	9.89	1
10915	1234678-HpCDF	67562-39-4	3.25 JBQ	0.171	9.89	1
10915	1234789-HpCDF	55673-89-7	0.407 JBQ	0.199	9.89	1
10915	OCDF	39001-02-0	2.32 JBQ	0.478	19.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	43	25 - 164
13C12-12378-PeCDD	37	25 - 181
13C12-123478-HxCDD	36	32 - 141
13C12-123678-HxCDD	34	28 - 130
13C12-123789-HxCDD	35	28 - 130
13C12-1234678-HpCDD	34	23 - 140
13C12-OCDD	32	17 - 157
13C12-2378-TCDF	48	24 - 169
13C12-12378-PeCDF	38	24 - 185
13C12-23478-PeCDF	41	21 - 178
13C12-123478-HxCDF	36	26 - 152
13C12-123678-HxCDF	35	26 - 123
13C12-234678-HxCDF	39	28 - 136
13C12-123789-HxCDF	39	29 - 147
13C12-1234678-HpCDF	34	28 - 143
13C12-1234789-HpCDF	33	26 - 138
13C12-OCDF	32	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB-050312 Water  
SSFL Phase 3 Soil Sampling  
EB

LLI Sample # WW 6639999  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 14:50

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

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Fairfax VA 22030

EB502 SDG#: PH005-02EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	Dioxins/Furans in Water - HRMS	EPA 1613B	1	12128001	05/08/2012 19:57	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12128001	05/07/2012 09:30	Ginelle L Haines	1

**Sample Description:** SL-603-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-603-SA5C-SB

LLI Sample # SW 6640000  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

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SL603 SDG#: PH005-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-603-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-603-SA5C-SB

LLI Sample # SW 6640000  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

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SL603 SDG#: PH005-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0427 JBQ	0.0122	1.07	1
11031	12378-PeCDD	40321-76-4	0.353 JB	0.0315	5.33	1
11031	123478-HxCDD	39227-28-6	0.932 JB	0.0286	5.33	1
11031	123678-HxCDD	57653-85-7	2.34 JB	0.0283	5.33	1
11031	123789-HxCDD	19408-74-3	1.33 JB	0.0274	5.33	1
11031	1234678-HpCDD	35822-46-9	65.5 B	0.0647	5.33	1
11031	OCDD	3268-87-9	590 B	0.0814	10.7	1
11031	2378-TCDF	51207-31-9	0.251 JB	0.0374	1.07	1
11031	12378-PeCDF	57117-41-6	1.20 JB	0.0226	5.33	1
11031	23478-PeCDF	57117-31-4	0.841 JB	0.0221	5.33	1
11031	123478-HxCDF	70648-26-9	0.941 JB	0.0212	5.33	1
11031	123678-HxCDF	57117-44-9	0.555 JB	0.0199	5.33	1
11031	123789-HxCDF	72918-21-9	0.681 JB	0.0222	5.33	1
11031	234678-HxCDF	60851-34-5	0.687 JB	0.0196	5.33	1
11031	1234678-HpCDF	67562-39-4	6.04 B	0.0218	5.33	1
11031	1234789-HpCDF	55673-89-7	0.691 JB	0.0319	5.33	1
11031	OCDF	39001-02-0	11.5 B	0.0301	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	92	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-603-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-603-SA5C-SB

LLI Sample # SW 6640000  
 LLI Group # 1306698  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

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Fairfax VA 22030

SL603 SDG#: PH005-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-603-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-603-SA5C-SB

LLI Sample # SW 6640000  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL603 SDG#: PH005-03BKG

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/17/2012 21:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	2	12130162401B	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-603-SA5C-SB-0.0-0.5 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-603-SA5C-SB

LLI Sample # SW 6640001  
 LLI Group # 1306698  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

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SL603 SDG#: PH005-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 7.2	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

Sample Description: SL-603-SA5C-SB-0.0-0.5 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-603-SA5C-SB

LLI Sample # SW 6640001  
LLI Group # 1306698  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/03/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

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SL603 SDG#: PH005-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	22.2	B	0.0142	1.07	1
11031	12378-PeCDD	40321-76-4	112	B	0.0364	5.33	1
11031	123478-HxCDD	39227-28-6	109	B	0.0425	5.33	1
11031	123678-HxCDD	57653-85-7	107	B	0.0436	5.33	1
11031	123789-HxCDD	19408-74-3	116	B	0.0453	5.33	1
11031	1234678-HpCDD	35822-46-9	165	B	0.0628	5.33	1
11031	OCDD	3268-87-9	746	B	0.0944	10.7	1
11031	2378-TCDF	51207-31-9	21.8	B	0.0419	1.07	1
11031	12378-PeCDF	57117-41-6	114	B	0.0300	5.33	1
11031	23478-PeCDF	57117-31-4	107	B	0.0290	5.33	1
11031	123478-HxCDF	70648-26-9	113	B	0.0491	5.33	1
11031	123678-HxCDF	57117-44-9	112	B	0.0462	5.33	1
11031	123789-HxCDF	72918-21-9	112	B	0.0515	5.33	1
11031	234678-HxCDF	60851-34-5	109	B	0.0506	5.33	1
11031	1234678-HpCDF	67562-39-4	109	B	0.0491	5.33	1
11031	1234789-HpCDF	55673-89-7	108	B	0.0628	5.33	1
11031	OCDF	39001-02-0	224	B	0.0515	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	89	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-603-SA5C-SB-0.0-0.5 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-603-SA5C-SB

LLI Sample # SW 6640001  
 LLI Group # 1306698  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL603 SDG#: PH005-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-603-SA5C-SB-0.0-0.5 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-603-SA5C-SB

LLI Sample # SW 6640001  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL603 SDG#: PH005-03MS

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/17/2012 22:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11625	Moisture CDM	EPA 160.3 modified	2	12130162401B	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-603-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-603-SA5C-SB

LLI Sample # SW 6640002  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL603 SDG#: PH005-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture CDM	n.a.	7.2	0.50	0.50	1
11626	Moisture Duplicate CDM	n.a.	7.0	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

Sample Description: SL-603-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-603-SA5C-SB

LLI Sample # SW 6640002  
LLI Group # 1306698  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/03/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

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SL603 SDG#: PH005-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>					<b>EPA 1613B</b>		
			ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	22.4	B	0.0180	1.05	1
11031	12378-PeCDD	40321-76-4	110	B	0.0420	5.24	1
11031	123478-HxCDD	39227-28-6	108	B	0.0416	5.24	1
11031	123678-HxCDD	57653-85-7	107	B	0.0427	5.24	1
11031	123789-HxCDD	19408-74-3	114	B	0.0452	5.24	1
11031	1234678-HpCDD	35822-46-9	150	B	0.0654	5.24	1
11031	OCDD	3268-87-9	608	B	0.0847	10.5	1
11031	2378-TCDF	51207-31-9	21.6	B	0.0383	1.05	1
11031	12378-PeCDF	57117-41-6	112	B	0.0301	5.24	1
11031	23478-PeCDF	57117-31-4	105	B	0.0290	5.24	1
11031	123478-HxCDF	70648-26-9	111	B	0.0487	5.24	1
11031	123678-HxCDF	57117-44-9	111	B	0.0458	5.24	1
11031	123789-HxCDF	72918-21-9	110	B	0.0561	5.24	1
11031	234678-HxCDF	60851-34-5	106	B	0.0470	5.24	1
11031	1234678-HpCDF	67562-39-4	107	B	0.0492	5.24	1
11031	1234789-HpCDF	55673-89-7	106	B	0.0606	5.24	1
11031	OCDF	39001-02-0	216	B	0.0533	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	90	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-603-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-603-SA5C-SB

LLI Sample # SW 6640002  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL603 SDG#: PH005-03MSD

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-603-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-603-SA5C-SB

LLI Sample # SW 6640002  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:15

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL603 SDG#: PH005-03MSD

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/17/2012 22:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11625	Moisture CDM	EPA 160.3 modified	2	12130162401B	05/09/2012 11:52	William C Schwebel	1
11626	Moisture Duplicate CDM	EPA 160.3 modified	2	12130162401B	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-903-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-903-SA5C-SB

LLI Sample # SW 6640003  
 LLI Group # 1306698  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:20

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL903 SDG#: PH005-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	8.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-903-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-903-SA5C-SB

LLI Sample # SW 6640003  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:20

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

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Fairfax VA 22030

SL903 SDG#: PH005-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0316 JBQ	0.0153	1.08	1
11031	12378-PeCDD	40321-76-4	0.325 JB	0.0382	5.41	1
11031	123478-HxCDD	39227-28-6	0.539 JB	0.0274	5.41	1
11031	123678-HxCDD	57653-85-7	2.15 JB	0.0289	5.41	1
11031	123789-HxCDD	19408-74-3	1.43 JB	0.0293	5.41	1
11031	1234678-HpCDD	35822-46-9	51.6 B	0.0667	5.41	1
11031	OCDD	3268-87-9	532 B	0.0872	10.8	1
11031	2378-TCDF	51207-31-9	0.247 JB	0.0461	1.08	1
11031	12378-PeCDF	57117-41-6	1.39 JB	0.0264	5.41	1
11031	23478-PeCDF	57117-31-4	0.592 JB	0.0252	5.41	1
11031	123478-HxCDF	70648-26-9	0.930 JB	0.0218	5.41	1
11031	123678-HxCDF	57117-44-9	0.692 JB	0.0198	5.41	1
11031	123789-HxCDF	72918-21-9	0.770 JB	0.0254	5.41	1
11031	234678-HxCDF	60851-34-5	0.722 JB	0.0219	5.41	1
11031	1234678-HpCDF	67562-39-4	6.45 B	0.0204	5.41	1
11031	1234789-HpCDF	55673-89-7	0.918 JB	0.0316	5.41	1
11031	OCDF	39001-02-0	11.1 B	0.0261	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	61	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-903-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-903-SA5C-SB

**LLI Sample #** SW 6640003  
**LLI Group #** 1306698  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:20

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Submitted: 05/04/2012 09:10

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SL903 SDG#: PH005-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-903-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-903-SA5C-SB

LLI Sample # SW 6640003  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 09:20

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

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Fairfax VA 22030

SL903 SDG#: PH005-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 02:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	2	12130162401C	05/09/2012 11:52	William C Schwebel	1

**Sample Description:** SL-606-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-606-SA5C-SB

LLI Sample # SW 6640004  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 11:30

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

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SL606 SDG#: PH005-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	3.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-606-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-606-SA5C-SB

LLI Sample # SW 6640004  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 11:30

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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SL606 SDG#: PH005-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0708 JBQ	0.0156	1.03	1
11031	12378-PeCDD	40321-76-4	0.521 JB	0.0356	5.13	1
11031	123478-HxCDD	39227-28-6	0.855 JB	0.0310	5.13	1
11031	123678-HxCDD	57653-85-7	2.32 JB	0.0326	5.13	1
11031	123789-HxCDD	19408-74-3	1.53 JB	0.0314	5.13	1
11031	1234678-HpCDD	35822-46-9	61.8 B	0.0623	5.13	1
11031	OCDD	3268-87-9	832 B	0.105	10.3	1
11031	2378-TCDF	51207-31-9	0.951 JB	0.0543	1.03	1
11031	12378-PeCDF	57117-41-6	1.32 JB	0.0314	5.13	1
11031	23478-PeCDF	57117-31-4	1.31 JB	0.0295	5.13	1
11031	123478-HxCDF	70648-26-9	1.47 JB	0.0240	5.13	1
11031	123678-HxCDF	57117-44-9	0.735 JB	0.0229	5.13	1
11031	123789-HxCDF	72918-21-9	0.196 JB	0.0259	5.13	1
11031	234678-HxCDF	60851-34-5	0.888 JB	0.0236	5.13	1
11031	1234678-HpCDF	67562-39-4	7.74 B	0.0516	5.13	1
11031	1234789-HpCDF	55673-89-7	0.692 JB	0.0625	5.13	1
11031	OCDF	39001-02-0	19.2 B	0.0319	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	87	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	62	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-606-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-606-SA5C-SB

**LLI Sample #** SW 6640004  
**LLI Group #** 1306698  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 11:30

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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SL606 SDG#: PH005-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-606-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-606-SA5C-SB

LLI Sample # SW 6640004  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 11:30

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

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SL606 SDG#: PH005-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 03:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12129162401B	05/08/2012 12:43	William C Schwebel	1

**Sample Description:** SL-612-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-612-SA5C-SB

LLI Sample # SW 6640005  
 LLI Group # 1306698  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 10:55

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

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SL612 SDG#: PH005-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	5.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-612-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6640005  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 10:55

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

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SL612 SDG#: PH005-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0878	JB 0.0168	1.05	1
11031	12378-PeCDD	40321-76-4	0.790	JB 0.0394	5.25	1
11031	123478-HxCDD	39227-28-6	1.49	JB 0.0405	5.25	1
11031	123678-HxCDD	57653-85-7	5.18	JB 0.0407	5.25	1
11031	123789-HxCDD	19408-74-3	2.85	JB 0.0398	5.25	1
11031	1234678-HpCDD	35822-46-9	126	B 0.0875	5.25	1
11031	OCDD	3268-87-9	1,400	B 0.166	10.5	1
11031	2378-TCDF	51207-31-9	0.648	JB 0.0622	1.05	1
11031	12378-PeCDF	57117-41-6	2.61	JB 0.0341	5.25	1
11031	23478-PeCDF	57117-31-4	1.83	JB 0.0355	5.25	1
11031	123478-HxCDF	70648-26-9	1.57	JB 0.0300	5.25	1
11031	123678-HxCDF	57117-44-9	0.951	JB 0.0278	5.25	1
11031	123789-HxCDF	72918-21-9	0.641	JBQ 0.0338	5.25	1
11031	234678-HxCDF	60851-34-5	1.23	JB 0.0276	5.25	1
11031	1234678-HpCDF	67562-39-4	12.2	B 0.0405	5.25	1
11031	1234789-HpCDF	55673-89-7	1.23	JB 0.0606	5.25	1
11031	OCDF	39001-02-0	25.1	B 0.0464	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	51	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-612-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6640005  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 10:55

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

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SL612 SDG#: PH005-06

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-612-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6640005  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 10:55

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

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SL612 SDG#: PH005-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 04:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12129162401B	05/08/2012 12:43	William C Schwebel	1

**Sample Description:** SL-596-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-596-SA5C-SB

LLI Sample # SW 6640006  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 14:00

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

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SL596 SDG#: PH005-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-596-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-596-SA5C-SB

LLI Sample # SW 6640006  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 14:00

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

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Reported: 05/18/2012 13:16

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SL596 SDG#: PH005-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.977 JB	0.0362	1.10	1
11031	12378-PeCDD	40321-76-4	5.35 JB	0.0530	5.51	1
11031	123478-HxCDD	39227-28-6	9.33 B	0.0851	5.51	1
11031	123678-HxCDD	57653-85-7	58.1 B	0.0868	5.51	1
11031	123789-HxCDD	19408-74-3	34.7 B	0.0845	5.51	1
11031	1234678-HpCDD	35822-46-9	2,720 EB	0.332	5.51	1
11031	OCDD	3268-87-9	16,900 EB	0.427	11.0	1
11031	2378-TCDF	51207-31-9	0.648 JB	0.0553	1.10	1
11031	12378-PeCDF	57117-41-6	0.908 JB	0.0344	5.51	1
11031	23478-PeCDF	57117-31-4	2.76 JB	0.0319	5.51	1
11031	123478-HxCDF	70648-26-9	3.23 JB	0.0347	5.51	1
11031	123678-HxCDF	57117-44-9	1.88 JB	0.0331	5.51	1
11031	123789-HxCDF	72918-21-9	0.705 JB	0.0373	5.51	1
11031	234678-HxCDF	60851-34-5	2.54 JB	0.0334	5.51	1
11031	1234678-HpCDF	67562-39-4	22.4 B	0.146	5.51	1
11031	1234789-HpCDF	55673-89-7	2.35 JB	0.177	5.51	1
11031	OCDF	39001-02-0	46.6 B	0.0660	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	96	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	96	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	101	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	98	21 - 178
13C12-123478-HxCDF	102	26 - 152
13C12-123678-HxCDF	100	26 - 123
13C12-234678-HxCDF	101	28 - 136

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-596-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-596-SA5C-SB

LLI Sample # SW 6640006  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 14:00

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL596 SDG#: PH005-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Labeled Compounds</b>						
		<b>%Rec</b>	<b>Windows</b>			
	13C12-123789-HxCDF	94	29 - 147			
	13C12-1234678-HpCDF	89	28 - 143			
	13C12-1234789-HpCDF	82	26 - 138			
	13C12-OCDF	67	17 - 157			

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present
- S* Saturation of detection signal

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-596-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-596-SA5C-SB

LLI Sample # SW 6640006  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 14:00

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

SL596 SDG#: PH005-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 09:36	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12129162401B	05/08/2012 12:43	William C Schwebel	1

**Sample Description:** SL-596-SA5C-SB-3.0-4.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-596-SA5C-SB

LLI Sample # SW 6640007  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 14:05

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

S5963 SDG#: PH005-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-596-SA5C-SB-3.0-4.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-596-SA5C-SB

LLI Sample # SW 6640007  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 14:05

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

S5963 SDG#: PH005-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0572 JB	0.0156	1.10	1
11031	12378-PeCDD	40321-76-4	0.412 JB	0.0304	5.51	1
11031	123478-HxCDD	39227-28-6	0.288 JBQ	0.0281	5.51	1
11031	123678-HxCDD	57653-85-7	1.72 JB	0.0297	5.51	1
11031	123789-HxCDD	19408-74-3	1.48 JB	0.0279	5.51	1
11031	1234678-HpCDD	35822-46-9	56.3 B	0.0515	5.51	1
11031	OCDD	3268-87-9	303 B	0.0774	11.0	1
11031	2378-TCDF	51207-31-9	0.0606 JB	0.0180	1.10	1
11031	12378-PeCDF	57117-41-6	0.488 JB	0.0139	5.51	1
11031	23478-PeCDF	57117-31-4	0.235 JB	0.0147	5.51	1
11031	123478-HxCDF	70648-26-9	0.209 JB	0.0160	5.51	1
11031	123678-HxCDF	57117-44-9	0.189 JB	0.0131	5.51	1
11031	123789-HxCDF	72918-21-9	1.26 JB	0.0199	5.51	1
11031	234678-HxCDF	60851-34-5	0.137 JBQ	0.0148	5.51	1
11031	1234678-HpCDF	67562-39-4	0.561 JB	0.0465	5.51	1
11031	1234789-HpCDF	55673-89-7	0.194 JBQ	0.0963	5.51	1
11031	OCDF	39001-02-0	1.26 JB	0.106	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	42	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-596-SA5C-SB-3.0-4.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-596-SA5C-SB

LLI Sample # SW 6640007  
 LLI Group # 1306698  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 14:05

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

S5963 SDG#: PH005-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-596-SA5C-SB-3.0-4.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-596-SA5C-SB

LLI Sample # SW 6640007  
LLI Group # 1306698  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/03/2012 14:05

CDM Federal Programs Corp.

Submitted: 05/04/2012 09:10

3201 Jermantown Road

Reported: 05/18/2012 13:16

Suite 400

Fairfax VA 22030

S5963 SDG#: PH005-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 06:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12129162401B	05/08/2012 12:43	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/18/12 at 01:16 PM

Group Number: 1306698

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12129162401B Moisture CDM	Sample number(s): 6639998,6640004-6640007				100		80-120		
Batch number: 12130162401B Moisture CDM	Sample number(s): 6640000-6640002				100		80-120		
Moisture CDM					100		80-120		
Moisture Duplicate CDM					100		80-120		
Batch number: 12130162401C Moisture CDM	Sample number(s): 6640003				100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12128001	Sample number(s): 6639999								
2378-TCDD	0.598 J	0.161	2.00	pg/l	104		67-158		
12378-PeCDD	0.330 J	0.304	10.0	pg/l	103		70-142		
123478-HxCDD	0.435 J	0.169	10.0	pg/l	100		70-164		
123678-HxCDD	0.424 J	0.173	10.0	pg/l	98		76-134		
123789-HxCDD	0.651 J	0.177	10.0	pg/l	107		64-162		
1234678-HpCDD	4.39 J	0.149	10.0	pg/l	106		70-140		
OCDD	8.33 J	0.275	20.0	pg/l	101		78-144		
2378-TCDF	0.130 U	0.130	2.00	pg/l	96		75-158		
12378-PeCDF	0.162 U	0.162	10.0	pg/l	103		80-134		
23478-PeCDF	1.03 J	0.142	10.0	pg/l	96		68-160		
123478-HxCDF	0.509 J	0.0980	10.0	pg/l	104		72-134		
123678-HxCDF	0.264 J	0.0953	10.0	pg/l	102		84-130		
123789-HxCDF	0.572 J	0.103	10.0	pg/l	103		78-130		
234678-HxCDF	0.450 J	0.0940	10.0	pg/l	100		70-156		
1234678-HpCDF	1.43 J	0.0780	10.0	pg/l	99		82-122		
1234789-HpCDF	0.557 J	0.0921	10.0	pg/l	103		78-138		
OCDF	1.62 J	0.218	20.0	pg/l	101		63-170		
Batch number: 12137001	Sample number(s): 6639998,6640000-6640007								
2378-TCDD	0.0217 J	0.00860	1.00	ng/kg	105		67-158		
12378-PeCDD	0.0255 J	0.0187	5.00	ng/kg	106		70-142		
123478-HxCDD	0.0376 J	0.0106	5.00	ng/kg	105		70-164		
123678-HxCDD	0.0486 J	0.0105	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0490 J	0.00990	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.276 J	0.00880	5.00	ng/kg	103		70-140		
OCDD	0.440 J	0.0147	10.0	ng/kg	97		78-144		
2378-TCDF	0.0290 J	0.00820	1.00	ng/kg	105		75-158		
12378-PeCDF	0.0438 J	0.00950	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0371 J	0.00980	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0379 J	0.00770	5.00	ng/kg	103		72-134		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/18/12 at 01:16 PM

Group Number: 1306698

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
123678-HxCDF	0.0398 J	0.00650	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0362 J	0.00850	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0399 J	0.00670	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.0821 J	0.00480	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0461 J	0.00820	5.00	ng/kg	100		78-138		
OCDF	0.142 J	0.0154	10.0	ng/kg	98		63-170		

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12129162401B Moisture CDM	Sample number(s): 6639998,6640004-6640007 BKG: P640000 6.9 14.5 72* 20							
Batch number: 12130162401B Moisture CDM	Sample number(s): 6640000-6640002 BKG: 6640000 7.2 7.0 2 20							
Moisture CDM	7.2 7.0 2 20							
Moisture Duplicate CDM	7.2 7.0 2 20							
Batch number: 12130162401C Moisture CDM	Sample number(s): 6640003 BKG: 6640003 8.6 8.7 2 20							
Batch number: 12137001 2378-TCDD	Sample number(s): 6639998,6640000-6640007 UNSPK: 6640000 104 107 67-158 1 25							
12378-PeCDD	105 105 70-142 2 25							
123478-HxCDD	101 102 70-164 1 25							
123678-HxCDD	98 100 76-134 0 25							
123789-HxCDD	108 107 64-162 2 25							
1234678-HpCDD	93 81 70-140 9 25							
OCDD	73* 9* 78-144 20 25							
2378-TCDF	101 102 75-158 1 25							
12378-PeCDF	106 105 80-134 2 25							
23478-PeCDF	99 99 68-160 2 25							
123478-HxCDF	105 105 72-134 2 25							
123678-HxCDF	105 105 84-130 1 25							
123789-HxCDF	105 105 78-130 2 25							
234678-HxCDF	102 101 70-156 2 25							
1234678-HpCDF	96 96 82-122 2 25							
1234789-HpCDF	101 101 78-138 1 25							
OCDF	100 98 63-170 4 25							

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Dioxins/Furans in Water - HRMS

Batch number: 12128001

13C12-2378-TCDD 13C12-23478-PeCDF 13C12-123478-HxCDF 13C12-123678-HxCDF 13C12-234678-HxCDF 13C12-123789-HxCDF

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ / MRL.

(2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/18/12 at 01:16 PM

Group Number: 1306698

### Surrogate Quality Control

6639999	43	41	36	35	39	39
Blank	69	72	72	71	74	71
OPR	81	91	85	85	86	88

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD

6639999	34	33	32	37	36	34
Blank	66	64	59	68	70	69
OPR	80	74	70	86	84	80

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	

6639999	35	34	32	48	38	
Blank	69	64	59	74	71	
OPR	81	74	70	85	90	

Limits:	28-130	23-140	17-157	24-169	24-185	
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Analysis Name: Dioxins/Furans in Solids-HRMS

Batch number: 12137001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
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6639998	68	70	70	72	73	69
6640000	92	84	88	92	88	88
6640001	93	85	89	90	87	89
6640002	83	87	90	90	87	81
6640003	80	79	86	91	86	77
6640004	84	85	87	87	87	82
6640005	86	78	82	84	80	76
6640006	96	98	102	100	101	94
6640007	75	74	76	88	77	62
Blank	77	79	88	98	90	80
MS	93	85	89	90	87	89
MSD	83	87	90	90	87	81
OPR	83	83	93	102	93	81

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD

6639998	62	57	48	64	68	67
6640000	87	68	64	81	85	83
6640001	83	75	64	83	83	82
6640002	83	75	64	85	84	82
6640003	88	64	61	75	82	80
6640004	76	73	62	80	80	80
6640005	81	62	51	79	78	75
6640006	89	82	67	95	96	92
6640007	97	54	42	83	83	78
Blank	110	72	65	80	93	90
MS	83	75	64	83	83	82
MSD	83	75	64	85	84	82

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/18/12 at 01:16 PM

Group Number: 1306698

Surrogate Quality Control						
OPR	112	70	62	84	93	94
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6639998	66	59	48	74	72	
6640000	83	74	71	86	90	
6640001	81	85	67	88	90	
6640002	82	86	69	88	90	
6640003	81	71	71	83	85	
6640004	81	78	64	88	86	
6640005	76	76	59	81	85	
6640006	95	88	74	101	99	
6640007	81	78	63	72	87	
Blank	92	87	81	75	87	
MS	81	85	67	88	90	
MSD	82	86	69	88	90	
OPR	94	85	77	80	93	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

13013 1306698 6639998-07

# SSFL Phase 3 Chain of Custody

CDM Smith  
 Date Shipped: 5/3/2012  
 Carrier Name: FedEx  
 Airbill No:

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120503-02  
 Cooler #:   
 Lab: Landcaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Mercury 8010 and 8020	Mercury 7471 (Soil)	Mercury 300 (Soil)	Fluoride 300 (Soil)	PAHs 8270 SIM	TC 8270	1,4 Dioxane 8270 SIM	PCBs/PCTs 8082	Dioxin 1613	Perchlorate 314 (Soil)	Perchlorate Confirm 6850/8860	pH 9045 (Soil)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCS 8280	1,4 Dioxane 8260 SIM	TPH-GRD 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terpenoids 8015	Nitrates 300 (Soil)	Energetics 8930	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Oxygenotin	Methyl Mercury 1630	Other Analysis/Notes			
SL-602-SA5C-SB-0.0-0.5	5/2/12 15:50	SO	None	1 - 55-Sleeve	10 day								X																									
EB-050312	5/3/12 14:50	WQ	None	1 - 1 L Amber	10 day								X																									
EB-050312	5/3/12 14:50	WQ	None	1 - 250 mL Amber	10 day																																X	
SL-603-SA5C-SB-0.0-0.5MS	5/3/12 09:15	SO	None	2 - 55-Sleeve	10 day								X																								MS/MSD	
SL-903-SA5C-SB-0.0-0.5	5/3/12 09:20	SO	None	1 - 55-Sleeve	10 day								X																									
SL-606-SA5C-SB-0.0-0.5	5/3/12 11:30	SO	None	1 - 55-Sleeve	10 day								X																									
SL-612-SA5C-SB-0.0-0.5	5/3/12 10:55	SO	None	1 - 55-Sleeve	10 day								X																									
SL-596-SA5C-SB-2.0-3.0	5/3/12 14:00	SO	None	1 - 55-Sleeve	10 day								X																									
SL-596-SA5C-SB-3.0-4.0	5/3/12 14:05	SO	None	1 - 55-Sleeve	10 day								X																									

Special Instructions:						SAMPLES TRANSFERRED FROM					
						CHAIN OF CUSTODY #					
Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>P. Hartman</i>	05/03/12									

*Burch 5:42 9/10*  
*Burch*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

## Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 23, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 05/09/2012  
Group Number: 1307624  
SDG: PH005  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

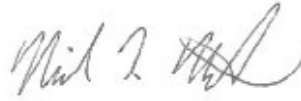
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-586-SA5C-SB-0.0-0.5 Soil	6645109
SL-588-SA5C-SB-0.0-0.5 Soil	6645110
SL-589-SA5C-SB-0.0-0.5 Soil	6645111
SL-592-SA5C-SB-0.0-0.5 Soil	6645112
SL-595-SA5C-SB-1.0-2.0 Soil	6645113
SL-595-SA5C-SB-2.0-3.0 Soil	6645114
SL-615-SA5C-SB-0.0-0.5 Soil	6645115
SL-671-SA5C-SB-0.0-0.5 Soil	6645116
SL-673-SA5C-SB-0.0-0.5 Soil	6645117

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-586-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-586-SA5C-SB

LLI Sample # SW 6645109  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 10:45

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL586 SDG#: PH005-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	6.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-586-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-586-SA5C-SB

LLI Sample # SW 6645109  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 10:45

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL586 SDG#: PH005-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.466	JB	0.0496	1
11031	12378-PeCDD	40321-76-4	3.61	JB	0.0635	1
11031	123478-HxCDD	39227-28-6	6.18	B	0.0577	1
11031	123678-HxCDD	57653-85-7	17.0	B	0.0556	1
11031	123789-HxCDD	19408-74-3	15.5	B	0.0570	1
11031	1234678-HpCDD	35822-46-9	588	B	0.164	1
11031	OCDD	3268-87-9	3,280	B	0.204	1
11031	2378-TCDF	51207-31-9	0.700	JB	0.0822	1
11031	12378-PeCDF	57117-41-6	2.22	JB	0.0567	1
11031	23478-PeCDF	57117-31-4	2.85	JB	0.0521	1
11031	123478-HxCDF	70648-26-9	3.32	JB	0.0334	1
11031	123678-HxCDF	57117-44-9	2.80	JB	0.0320	1
11031	123789-HxCDF	72918-21-9	0.830	JB	0.0364	1
11031	234678-HxCDF	60851-34-5	2.21	JB	0.0323	1
11031	1234678-HpCDF	67562-39-4	24.0	B	0.140	1
11031	1234789-HpCDF	55673-89-7	3.12	JBQ	0.177	1
11031	OCDF	39001-02-0	63.7	B	0.141	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	54	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-586-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-586-SA5C-SB

LLI Sample # SW 6645109  
 LLI Group # 1307624  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 10:45

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

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Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL586 SDG#: PH005-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-586-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-586-SA5C-SB

LLI Sample # SW 6645109  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 10:45

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL586 SDG#: PH005-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 07:42	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401A	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-588-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-588-SA5C-SB

LLI Sample # SW 6645110  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL588 SDG#: PH005-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	5.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-588-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-588-SA5C-SB

LLI Sample # SW 6645110  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

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Fairfax VA 22030

SL588 SDG#: PH005-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0409 JBQ	0.0178	1.05	1
11031	12378-PeCDD	40321-76-4	0.339 JB	0.0369	5.27	1
11031	123478-HxCDD	39227-28-6	0.507 JB	0.0313	5.27	1
11031	123678-HxCDD	57653-85-7	1.79 JB	0.0330	5.27	1
11031	123789-HxCDD	19408-74-3	1.57 JB	0.0305	5.27	1
11031	1234678-HpCDD	35822-46-9	70.7 B	0.0627	5.27	1
11031	OCDD	3268-87-9	455 B	0.0962	10.5	1
11031	2378-TCDF	51207-31-9	0.399 JB	0.0450	1.05	1
11031	12378-PeCDF	57117-41-6	0.945 JB	0.0278	5.27	1
11031	23478-PeCDF	57117-31-4	1.03 JB	0.0270	5.27	1
11031	123478-HxCDF	70648-26-9	0.487 JB	0.0206	5.27	1
11031	123678-HxCDF	57117-44-9	0.261 JBQ	0.0184	5.27	1
11031	123789-HxCDF	72918-21-9	0.298 JB	0.0228	5.27	1
11031	234678-HxCDF	60851-34-5	0.349 JB	0.0195	5.27	1
11031	1234678-HpCDF	67562-39-4	2.70 JB	0.107	5.27	1
11031	1234789-HpCDF	55673-89-7	0.376 JB	0.156	5.27	1
11031	OCDF	39001-02-0	6.10 JB	0.0955	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	50	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-588-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-588-SA5C-SB

LLI Sample # SW 6645110  
 LLI Group # 1307624  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL588 SDG#: PH005-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-588-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-588-SA5C-SB

LLI Sample # SW 6645110  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL588 SDG#: PH005-10

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 08:39	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401A	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-589-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-589-SA5C-SB

LLI Sample # SW 6645111  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 11:15

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL589 SDG#: PH005-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-589-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-589-SA5C-SB

LLI Sample # SW 6645111  
LLI Group # 1307624  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/07/2012 11:15

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL589 SDG#: PH005-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0439 JBQ	0.0159	1.09	1
11031	12378-PeCDD	40321-76-4	0.165 JB	0.0270	5.43	1
11031	123478-HxCDD	39227-28-6	0.156 JB	0.0274	5.43	1
11031	123678-HxCDD	57653-85-7	0.443 JB	0.0284	5.43	1
11031	123789-HxCDD	19408-74-3	0.452 JB	0.0269	5.43	1
11031	1234678-HpCDD	35822-46-9	10.5 B	0.0481	5.43	1
11031	OCDD	3268-87-9	186 B	0.0746	10.9	1
11031	2378-TCDF	51207-31-9	0.0566 JB	0.0296	1.09	1
11031	12378-PeCDF	57117-41-6	0.208 JB	0.0203	5.43	1
11031	23478-PeCDF	57117-31-4	0.184 JB	0.0193	5.43	1
11031	123478-HxCDF	70648-26-9	0.208 JB	0.0202	5.43	1
11031	123678-HxCDF	57117-44-9	0.147 JB	0.0194	5.43	1
11031	123789-HxCDF	72918-21-9	0.304 JB	0.0214	5.43	1
11031	234678-HxCDF	60851-34-5	0.146 JBQ	0.0190	5.43	1
11031	1234678-HpCDF	67562-39-4	2.40 JBQ	0.0987	5.43	1
11031	1234789-HpCDF	55673-89-7	0.502 JBQ	0.131	5.43	1
11031	OCDF	39001-02-0	8.24 JB	0.0459	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	91	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	87	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	60	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-589-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-589-SA5C-SB

LLI Sample # SW 6645111  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 11:15

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL589 SDG#: PH005-11

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-589-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-589-SA5C-SB

LLI Sample # SW 6645111  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 11:15

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

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SL589 SDG#: PH005-11

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 10:32	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401A	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-592-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-592-SA5C-SB

LLI Sample # SW 6645112  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 09:00

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

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SL592 SDG#: PH005-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-592-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-592-SA5C-SB

LLI Sample # SW 6645112  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 09:00

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Submitted: 05/09/2012 09:25

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SL592 SDG#: PH005-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0165	U	0.0165	1.06	1
11031	12378-PeCDD	40321-76-4	0.132	JB	0.0294	5.28	1
11031	123478-HxCDD	39227-28-6	0.217	JBQ	0.0272	5.28	1
11031	123678-HxCDD	57653-85-7	0.723	JB	0.0263	5.28	1
11031	123789-HxCDD	19408-74-3	0.505	JB	0.0256	5.28	1
11031	1234678-HpCDD	35822-46-9	17.1	B	0.0492	5.28	1
11031	OCDD	3268-87-9	193	B	0.0709	10.6	1
11031	2378-TCDF	51207-31-9	0.116	JB	0.0564	1.06	1
11031	12378-PeCDF	57117-41-6	2.33	JB	0.0267	5.28	1
11031	23478-PeCDF	57117-31-4	0.739	JB	0.0286	5.28	1
11031	123478-HxCDF	70648-26-9	0.846	JB	0.0246	5.28	1
11031	123678-HxCDF	57117-44-9	0.368	JB	0.0213	5.28	1
11031	123789-HxCDF	72918-21-9	0.283	JB	0.0311	5.28	1
11031	234678-HxCDF	60851-34-5	0.319	JB	0.0231	5.28	1
11031	1234678-HpCDF	67562-39-4	3.29	JB	0.0803	5.28	1
11031	1234789-HpCDF	55673-89-7	0.628	JBQ	0.149	5.28	1
11031	OCDF	39001-02-0	6.80	JB	0.0597	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	44	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-592-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-592-SA5C-SB

LLI Sample # SW 6645112  
 LLI Group # 1307624  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 09:00

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

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SL592 SDG#: PH005-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-592-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-592-SA5C-SB

LLI Sample # SW 6645112  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 09:00

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Submitted: 05/09/2012 09:25

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SL592 SDG#: PH005-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 11:29	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401A	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-595-SA5C-SB-1.0-2.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-595-SA5C-SB

LLI Sample # SW 6645113  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 13:45

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Submitted: 05/09/2012 09:25

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SL595 SDG#: PH005-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-595-SA5C-SB-1.0-2.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-595-SA5C-SB

LLI Sample # SW 6645113  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 13:45

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

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Reported: 05/23/2012 07:38

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SL595 SDG#: PH005-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0486	JBQ 0.0150	1.10	1
11031	12378-PeCDD	40321-76-4	0.304	JB 0.0327	5.51	1
11031	123478-HxCDD	39227-28-6	0.634	JB 0.0305	5.51	1
11031	123678-HxCDD	57653-85-7	3.81	JB 0.0312	5.51	1
11031	123789-HxCDD	19408-74-3	2.50	JB 0.0324	5.51	1
11031	1234678-HpCDD	35822-46-9	208	B 0.0898	5.51	1
11031	OCDD	3268-87-9	1,210	B 0.112	11.0	1
11031	2378-TCDF	51207-31-9	0.117	JBQ 0.0275	1.10	1
11031	12378-PeCDF	57117-41-6	0.254	JB 0.0184	5.51	1
11031	23478-PeCDF	57117-31-4	0.303	JB 0.0192	5.51	1
11031	123478-HxCDF	70648-26-9	0.328	JB 0.0176	5.51	1
11031	123678-HxCDF	57117-44-9	0.213	JBQ 0.0160	5.51	1
11031	123789-HxCDF	72918-21-9	0.475	JB 0.0204	5.51	1
11031	234678-HxCDF	60851-34-5	0.259	JBQ 0.0176	5.51	1
11031	1234678-HpCDF	67562-39-4	1.89	JB 0.0369	5.51	1
11031	1234789-HpCDF	55673-89-7	0.308	JB 0.0598	5.51	1
11031	OCDF	39001-02-0	4.92	JB 0.0309	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	87	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	65	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-595-SA5C-SB-1.0-2.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-595-SA5C-SB

LLI Sample # SW 6645113  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 13:45

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Submitted: 05/09/2012 09:25

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SL595 SDG#: PH005-13

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-595-SA5C-SB-1.0-2.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-595-SA5C-SB

LLI Sample # SW 6645113  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 13:45

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Submitted: 05/09/2012 09:25

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SL595 SDG#: PH005-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 15:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401A	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-595-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-595-SA5C-SB

LLI Sample # SW 6645114  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 13:50

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Submitted: 05/09/2012 09:25

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S-595 SDG#: PH005-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	15.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-595-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-595-SA5C-SB

LLI Sample # SW 6645114  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 13:50

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

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S-595 SDG#: PH005-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0424 JBQ	0.0156	1.16	1
11031	12378-PeCDD	40321-76-4	0.328 JB	0.0367	5.81	1
11031	123478-HxCDD	39227-28-6	0.331 JB	0.0261	5.81	1
11031	123678-HxCDD	57653-85-7	1.50 JB	0.0269	5.81	1
11031	123789-HxCDD	19408-74-3	1.50 JB	0.0254	5.81	1
11031	1234678-HpCDD	35822-46-9	49.2 B	0.0540	5.81	1
11031	OCDD	3268-87-9	328 B	0.0455	11.6	1
11031	2378-TCDF	51207-31-9	0.182 JB	0.0397	1.16	1
11031	12378-PeCDF	57117-41-6	0.432 JB	0.0205	5.81	1
11031	23478-PeCDF	57117-31-4	0.484 JB	0.0223	5.81	1
11031	123478-HxCDF	70648-26-9	0.472 JB	0.0208	5.81	1
11031	123678-HxCDF	57117-44-9	0.225 JB	0.0178	5.81	1
11031	123789-HxCDF	72918-21-9	1.03 JB	0.0244	5.81	1
11031	234678-HxCDF	60851-34-5	0.236 JBQ	0.0199	5.81	1
11031	1234678-HpCDF	67562-39-4	1.24 JB	0.0150	5.81	1
11031	1234789-HpCDF	55673-89-7	0.201 JB	0.0287	5.81	1
11031	OCDF	39001-02-0	2.96 JB	0.0258	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	104	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	113	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	75	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-595-SA5C-SB-2.0-3.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-595-SA5C-SB

**LLI Sample #** SW 6645114  
**LLI Group #** 1307624  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 13:50

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

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Reported: 05/23/2012 07:38

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S-595 SDG#: PH005-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-595-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-595-SA5C-SB

LLI Sample # SW 6645114  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 13:50

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Submitted: 05/09/2012 09:25

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S-595 SDG#: PH005-14

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/21/2012 16:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401A	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-615-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-615-SA5C-SB

LLI Sample # SW 6645115  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 15:15

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Submitted: 05/09/2012 09:25

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SL615 SDG#: PH005-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-615-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-615-SA5C-SB

LLI Sample # SW 6645115  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 15:15

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Submitted: 05/09/2012 09:25

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SL615 SDG#: PH005-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.129	JB	0.0178	1.09	1
11031	12378-PeCDD	40321-76-4	0.872	JB	0.0350	5.44	1
11031	123478-HxCDD	39227-28-6	1.27	JB	0.0304	5.44	1
11031	123678-HxCDD	57653-85-7	3.12	JB	0.0313	5.44	1
11031	123789-HxCDD	19408-74-3	2.56	JB	0.0314	5.44	1
11031	1234678-HpCDD	35822-46-9	77.8	B	0.0722	5.44	1
11031	OCDD	3268-87-9	948	B	0.0950	10.9	1
11031	2378-TCDF	51207-31-9	0.288	JB	0.0555	1.09	1
11031	12378-PeCDF	57117-41-6	1.47	JB	0.0351	5.44	1
11031	23478-PeCDF	57117-31-4	1.32	JB	0.0329	5.44	1
11031	123478-HxCDF	70648-26-9	1.43	JB	0.0235	5.44	1
11031	123678-HxCDF	57117-44-9	0.887	JB	0.0230	5.44	1
11031	123789-HxCDF	72918-21-9	0.847	JB	0.0253	5.44	1
11031	234678-HxCDF	60851-34-5	0.952	JB	0.0241	5.44	1
11031	1234678-HpCDF	67562-39-4	12.8	B	0.0675	5.44	1
11031	1234789-HpCDF	55673-89-7	0.909	JB	0.0847	5.44	1
11031	OCDF	39001-02-0	21.0	B	0.0326	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-615-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-615-SA5C-SB

LLI Sample # SW 6645115  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 15:15

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL615 SDG#: PH005-15

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-615-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-615-SA5C-SB

LLI Sample # SW 6645115  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/07/2012 15:15

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL615 SDG#: PH005-15

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 17:22	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401A	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-671-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-671-SA5C-SB

LLI Sample # SW 6645116  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/08/2012 08:30

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL671 SDG#: PH005-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	6.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-671-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-671-SA5C-SB

LLI Sample # SW 6645116  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/08/2012 08:30

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL671 SDG#: PH005-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>						
11031	2378-TCDD	1746-01-6	0.204	JB 0.0168	1.06	1
11031	12378-PeCDD	40321-76-4	3.25	JB 0.0396	5.30	1
11031	123478-HxCDD	39227-28-6	7.49	B 0.0539	5.30	1
11031	123678-HxCDD	57653-85-7	23.7	B 0.0549	5.30	1
11031	123789-HxCDD	19408-74-3	13.8	B 0.0515	5.30	1
11031	1234678-HpCDD	35822-46-9	693	B 0.163	5.30	1
11031	OCDD	3268-87-9	6,540	EB 0.202	10.6	1
11031	2378-TCDF	51207-31-9	0.701	JB 0.0621	1.06	1
11031	12378-PeCDF	57117-41-6	5.68	B 0.0317	5.30	1
11031	23478-PeCDF	57117-31-4	2.29	JB 0.0303	5.30	1
11031	123478-HxCDF	70648-26-9	4.37	JB 0.0319	5.30	1
11031	123678-HxCDF	57117-44-9	2.55	JB 0.0310	5.30	1
11031	123789-HxCDF	72918-21-9	0.690	JB 0.0369	5.30	1
11031	234678-HxCDF	60851-34-5	3.46	JB 0.0316	5.30	1
11031	1234678-HpCDF	67562-39-4	67.2	B 0.0694	5.30	1
11031	1234789-HpCDF	55673-89-7	4.93	JB 0.0887	5.30	1
11031	OCDF	39001-02-0	163	B 0.0549	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	98	25 - 164
13C12-12378-PeCDD	99	25 - 181
13C12-123478-HxCDD	94	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	99	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	98	21 - 178
13C12-123478-HxCDF	99	26 - 152
13C12-123678-HxCDF	99	26 - 123
13C12-234678-HxCDF	95	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	85	26 - 138
13C12-OCDF	70	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-671-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-671-SA5C-SB

LLI Sample # SW 6645116  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/08/2012 08:30

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL671 SDG#: PH005-16

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-671-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-671-SA5C-SB

LLI Sample # SW 6645116  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/08/2012 08:30

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL671 SDG#: PH005-16

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 18:18	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401A	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-673-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-673-SA5C-SB

LLI Sample # SW 6645117  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/08/2012 08:50

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

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SL673 SDG#: PH005-17\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-673-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-673-SA5C-SB

LLI Sample # SW 6645117  
LLI Group # 1307624  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/08/2012 08:50

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

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Fairfax VA 22030

SL673 SDG#: PH005-17\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>						
11031	2378-TCDD	1746-01-6	0.0780	JB 0.0159	1.09	1
11031	12378-PeCDD	40321-76-4	1.28	JB 0.0391	5.43	1
11031	123478-HxCDD	39227-28-6	2.99	JB 0.0410	5.43	1
11031	123678-HxCDD	57653-85-7	8.14	B 0.0408	5.43	1
11031	123789-HxCDD	19408-74-3	4.83	JB 0.0389	5.43	1
11031	1234678-HpCDD	35822-46-9	201	B 0.0939	5.43	1
11031	OCDD	3268-87-9	1,650	B 0.117	10.9	1
11031	2378-TCDF	51207-31-9	1.01	JB 0.0645	1.09	1
11031	12378-PeCDF	57117-41-6	3.87	JB 0.0312	5.43	1
11031	23478-PeCDF	57117-31-4	3.76	JB 0.0305	5.43	1
11031	123478-HxCDF	70648-26-9	4.03	JB 0.0287	5.43	1
11031	123678-HxCDF	57117-44-9	1.70	JB 0.0259	5.43	1
11031	123789-HxCDF	72918-21-9	0.636	JB 0.0320	5.43	1
11031	234678-HxCDF	60851-34-5	1.83	JB 0.0262	5.43	1
11031	1234678-HpCDF	67562-39-4	24.9	B 0.0461	5.43	1
11031	1234789-HpCDF	55673-89-7	2.06	JB 0.0652	5.43	1
11031	OCDF	39001-02-0	58.2	B 0.0348	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	97	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	61	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-673-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-673-SA5C-SB

LLI Sample # SW 6645117  
 LLI Group # 1307624  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/08/2012 08:50

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

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Fairfax VA 22030

SL673 SDG#: PH005-17\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-673-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-673-SA5C-SB

**LLI Sample #** SW 6645117  
**LLI Group #** 1307624  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/08/2012 08:50

CDM Federal Programs Corp.

Submitted: 05/09/2012 09:25

3201 Jermantown Road

Reported: 05/23/2012 07:38

Suite 400

Fairfax VA 22030

SL673 SDG#: PH005-17\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	Dioxins/Furans in Solids-HRMS	EPA 1613B	1	12137001	05/18/2012 19:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12137001	05/16/2012 11:00	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401A	05/15/2012 11:55	Stephanie A Sanchez	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/23/12 at 07:38 AM

Group Number: 1307624

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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Batch number: 12136162401A  
Moisture CDM

Sample number(s): 6645109-6645117

100 80-120

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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Batch number: 12137001

Sample number(s): 6645109-6645117

2378-TCDD	0.0217 J	0.00860	1.00	ng/kg	105		67-158		
12378-PeCDD	0.0255 J	0.0187	5.00	ng/kg	106		70-142		
123478-HxCDD	0.0376 J	0.0106	5.00	ng/kg	105		70-164		
123678-HxCDD	0.0486 J	0.0105	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0490 J	0.00990	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.276 J	0.00880	5.00	ng/kg	103		70-140		
OCDD	0.440 J	0.0147	10.0	ng/kg	97		78-144		
2378-TCDF	0.0290 J	0.00820	1.00	ng/kg	105		75-158		
12378-PeCDF	0.0438 J	0.00950	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0371 J	0.00980	5.00	ng/kg	99		68-160		
123478-HxCDF	0.0379 J	0.00770	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0398 J	0.00650	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0362 J	0.00850	5.00	ng/kg	104		78-130		
234678-HxCDF	0.0399 J	0.00670	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.0821 J	0.00480	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0461 J	0.00820	5.00	ng/kg	100		78-138		
OCDF	0.142 J	0.0154	10.0	ng/kg	98		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
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Batch number: 12136162401A  
Moisture CDM

Sample number(s): 6645109-6645117 BKG: 6645113  
9.8 9.5 2 20

Batch number: 12137001

Sample number(s): 6645109-6645117 UNSPK: P640000

2378-TCDD	104	107	67-158	1	25				
12378-PeCDD	105	105	70-142	2	25				
123478-HxCDD	101	102	70-164	1	25				
123678-HxCDD	98	100	76-134	0	25				
123789-HxCDD	108	107	64-162	2	25				
1234678-HpCDD	93	81	70-140	9	25				

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/23/12 at 07:38 AM

Group Number: 1307624

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
OCDD	73*	9*	78-144	20	25				
2378-TCDF	101	102	75-158	1	25				
12378-PeCDF	106	105	80-134	2	25				
23478-PeCDF	99	99	68-160	2	25				
123478-HxCDF	105	105	72-134	2	25				
123678-HxCDF	105	105	84-130	1	25				
123789-HxCDF	105	105	78-130	2	25				
234678-HxCDF	102	101	70-156	2	25				
1234678-HpCDF	96	96	82-122	2	25				
1234789-HpCDF	101	101	78-138	1	25				
OCDF	100	98	63-170	4	25				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Dioxins/Furans in Solids-HRMS  
Batch number: 12137001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6645109	80	81	81	81	82	77
6645110	79	79	81	84	79	73
6645111	91	86	87	87	87	84
6645112	75	76	76	85	76	64
6645113	82	84	87	93	86	78
6645114	83	90	82	92	80	72
6645115	87	84	86	84	84	85
6645116	98	98	99	99	95	88
6645117	90	89	88	93	87	81
Blank	77	79	88	98	90	80
MS	93	85	89	90	87	89
MSD	83	87	90	90	87	81
OPR	83	83	93	102	93	81
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6645109	72	65	54	78	73	75
6645110	81	63	50	79	77	74
6645111	83	72	60	85	84	80
6645112	92	56	44	80	76	76
6645113	97	69	65	81	85	84
6645114	113	67	75	92	86	82
6645115	80	74	64	83	79	79
6645116	96	85	70	99	94	89
6645117	95	75	61	92	85	83
Blank	110	72	65	80	93	90
MS	83	75	64	83	83	82

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/23/12 at 07:38 AM

Group Number: 1307624

### Surrogate Quality Control

MSD	83	75	64	85	84	82
OPR	112	70	62	84	93	94
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6645109	79	69	55	83	82	
6645110	77	75	57	82	85	
6645111	82	79	63	86	89	
6645112	77	74	58	75	86	
6645113	84	78	78	84	92	
6645114	83	86	105	79	104	
6645115	79	82	68	83	86	
6645116	92	95	80	99	103	
6645117	84	88	73	87	97	
Blank	92	87	81	75	87	
MS	81	85	67	88	90	
MSD	82	86	69	88	90	
OPR	94	85	77	80	93	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct# 13013 Cup# 1307624

sample# 6645109-17  
**SSFL Phase 3 Chain of Custody**

CDM Smith

Date Shipped: 5/8/2012

Carrier Name: FedEx

Airbill No:

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No: 20120508-02

Cooler #:

Lab:

Landcaster

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methl Mercury 1630	Oranetin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Emeretics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glucols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	PCBA/PCT's 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SIOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes				
SL-586-SA5C-SB-0.0-0.5	5/7/12 10:45	SO	None	1 - SS-Sleeve	10 day																																			
SL-588-SA5C-SB-0.0-0.5	5/7/12 10:00	SO	None	1 - SS-Sleeve	10 day																																			
SL-589-SA5C-SB-0.0-0.5	5/7/12 11:15	SO	None	1 - SS-Sleeve	10 day																																			
SL-592-SA5C-SB-0.0-0.5	5/7/12 09:00	SO	None	1 - SS-Sleeve	10 day																																			
SL-595-SA5C-SB-1.0-2.0	5/7/12 13:45	SO	None	1 - SS-Sleeve	10 day																																			
SL-595-SA5C-SB-2.0-3.0	5/7/12 13:50	SO	None	1 - SS-Sleeve	10 day																																			
SL-615-SA5C-SB-0.0-0.5	5/7/12 15:15	SO	None	1 - SS-Sleeve	10 day																																			
SL-671-SA5C-SB-0.0-0.5	5/8/12 08:30	SO	None	1 - SS-Sleeve	10 day																																			
SL-673-SA5C-SB-0.0-0.5	5/8/12 08:50	SO	None	1 - SS-Sleeve	10 day																																			

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	05/10/12									
									<i>[Signature]</i>	5/12/12	0925

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 29, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 05/11/2012  
Group Number: 1308379  
SDG: PH006  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

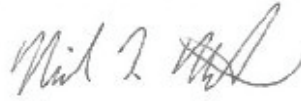
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-542-SA5C-SB-0.0-0.5 Soil	6649207
SL-542-SA5C-SB-1.0-2.0 Soil	6649208
SL-566-SA5C-SB-0.0-0.5 Soil	6649209
SL-613-SA5C-SB-0.0-0.5 Soil	6649210
EB-051012 Water	6649211
SL-512-SA5C-SB-4.0-5.0 Soil	6649212
SL-812-SA5C-SB-0.0-0.5 Soil	6649213
SL-513-SA5C-SB-4.0-5.0 Soil	6649214
SL-512-SA5C-SB-6.0-7.0 Soil	6649215
SL-512-SA5C-SB-0.0-0.5 Soil	6649216
SL-512-SA5C-SB-0.0-0.5 MS Soil	6649217
SL-512-SA5C-SB-0.0-0.5 MSD Soil	6649218

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-542-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-542-SA5C-SB

LLI Sample # SW 6649207  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/09/2012 09:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL542 SDG#: PH006-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	5.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-542-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-542-SA5C-SB

LLI Sample # SW 6649207  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/09/2012 09:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400  
Fairfax VA 22030

SL542 SDG#: PH006-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0822	J	0.0225	1.05	1
11031	12378-PeCDD	40321-76-4	0.601	JB	0.0395	5.24	1
11031	123478-HxCDD	39227-28-6	0.824	J	0.0296	5.24	1
11031	123678-HxCDD	57653-85-7	2.09	JB	0.0294	5.24	1
11031	123789-HxCDD	19408-74-3	1.62	J	0.0309	5.24	1
11031	1234678-HpCDD	35822-46-9	49.2	B	0.0622	5.24	1
11031	OCDD	3268-87-9	469	B	0.0703	10.5	1
11031	2378-TCDF	51207-31-9	0.128	J	0.0451	1.05	1
11031	12378-PeCDF	57117-41-6	0.404	J	0.0270	5.24	1
11031	23478-PeCDF	57117-31-4	0.474	JB	0.0251	5.24	1
11031	123478-HxCDF	70648-26-9	0.791	JB	0.0204	5.24	1
11031	123678-HxCDF	57117-44-9	0.483	JB	0.0176	5.24	1
11031	123789-HxCDF	72918-21-9	0.196	JB	0.0193	5.24	1
11031	234678-HxCDF	60851-34-5	0.568	JB	0.0163	5.24	1
11031	1234678-HpCDF	67562-39-4	7.24	B	0.0339	5.24	1
11031	1234789-HpCDF	55673-89-7	0.550	JB	0.0388	5.24	1
11031	OCDF	39001-02-0	15.4	B	0.0250	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	95	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	103	24 - 169
13C12-12378-PeCDF	108	24 - 185
13C12-23478-PeCDF	102	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	98	26 - 123
13C12-234678-HxCDF	102	28 - 136
13C12-123789-HxCDF	98	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	88	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-542-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-542-SA5C-SB

LLI Sample # SW 6649207  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/09/2012 09:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL542 SDG#: PH006-01

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-542-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-542-SA5C-SB

LLI Sample # SW 6649207  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/09/2012 09:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL542 SDG#: PH006-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12144002	05/24/2012 23:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12144002	05/23/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401B	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-542-SA5C-SB-1.0-2.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-542-SA5C-SB

LLI Sample # SW 6649208  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/09/2012 09:30

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

S-542 SDG#: PH006-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture CDM	n.a.	10.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-542-SA5C-SB-1.0-2.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-542-SA5C-SB

LLI Sample # SW 6649208  
LLI Group # 1308379  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/09/2012 09:30

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

S-542 SDG#: PH006-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0178	U	0.0178	1.09	1
11031	12378-PeCDD	40321-76-4	0.229	JB	0.0316	5.45	1
11031	123478-HxCDD	39227-28-6	0.303	JQ	0.0274	5.45	1
11031	123678-HxCDD	57653-85-7	0.731	JB	0.0283	5.45	1
11031	123789-HxCDD	19408-74-3	0.727	J	0.0279	5.45	1
11031	1234678-HpCDD	35822-46-9	17.7	B	0.0371	5.45	1
11031	OCDD	3268-87-9	166	B	0.0553	10.9	1
11031	2378-TCDF	51207-31-9	0.0597	J	0.0331	1.09	1
11031	12378-PeCDF	57117-41-6	0.235	J	0.0241	5.45	1
11031	23478-PeCDF	57117-31-4	0.182	JBQ	0.0237	5.45	1
11031	123478-HxCDF	70648-26-9	0.280	JB	0.0185	5.45	1
11031	123678-HxCDF	57117-44-9	0.243	JB	0.0155	5.45	1
11031	123789-HxCDF	72918-21-9	0.161	JBQ	0.0179	5.45	1
11031	234678-HxCDF	60851-34-5	0.222	JB	0.0166	5.45	1
11031	1234678-HpCDF	67562-39-4	2.44	JB	0.0474	5.45	1
11031	1234789-HpCDF	55673-89-7	0.209	JBQ	0.0565	5.45	1
11031	OCDF	39001-02-0	5.54	JB	0.0297	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	69	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-542-SA5C-SB-1.0-2.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-542-SA5C-SB

LLI Sample # SW 6649208  
 LLI Group # 1308379  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/09/2012 09:30

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

S-542 SDG#: PH006-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-542-SA5C-SB-1.0-2.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-542-SA5C-SB

LLI Sample # SW 6649208  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/09/2012 09:30

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

S-542 SDG#: PH006-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12144002	05/25/2012 00:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12144002	05/23/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401B	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-566-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-566-SA5C-SB

LLI Sample # SW 6649209  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/08/2012 14:40

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL566 SDG#: PH006-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-566-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-566-SA5C-SB

LLI Sample # SW 6649209  
LLI Group # 1308379  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/08/2012 14:40

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL566 SDG#: PH006-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0859	JQ	0.0213	1.08	1
11031	12378-PeCDD	40321-76-4	0.192	JB	0.0384	5.39	1
11031	123478-HxCDD	39227-28-6	0.169	J	0.0558	5.39	1
11031	123678-HxCDD	57653-85-7	0.760	JB	0.0522	5.39	1
11031	123789-HxCDD	19408-74-3	0.676	J	0.0456	5.39	1
11031	1234678-HpCDD	35822-46-9	19.9	B	0.0603	5.39	1
11031	OCDD	3268-87-9	189	B	0.109	10.8	1
11031	2378-TCDF	51207-31-9	0.0950	J	0.0309	1.08	1
11031	12378-PeCDF	57117-41-6	0.135	J	0.0278	5.39	1
11031	23478-PeCDF	57117-31-4	0.570	JB	0.0277	5.39	1
11031	123478-HxCDF	70648-26-9	0.222	JB	0.0590	5.39	1
11031	123678-HxCDF	57117-44-9	0.344	JB	0.0509	5.39	1
11031	123789-HxCDF	72918-21-9	0.264	JBQ	0.0355	5.39	1
11031	234678-HxCDF	60851-34-5	0.204	JB	0.0289	5.39	1
11031	1234678-HpCDF	67562-39-4	2.83	JBQ	0.122	5.39	1
11031	1234789-HpCDF	55673-89-7	0.132	JB	0.0812	5.39	1
11031	OCDF	39001-02-0	5.73	JB	0.0838	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	61	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	55	23 - 140
13C12-OCDD	36	17 - 157
13C12-2378-TCDF	92	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	42	26 - 152
13C12-123678-HxCDF	50	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	38	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	34	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-566-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-566-SA5C-SB

LLI Sample # SW 6649209  
 LLI Group # 1308379  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/08/2012 14:40

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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SL566 SDG#: PH006-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-566-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-566-SA5C-SB

LLI Sample # SW 6649209  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/08/2012 14:40

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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Fairfax VA 22030

SL566 SDG#: PH006-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12144002	05/25/2012 01:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12144002	05/23/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401B	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-613-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-613-SA5C-SB

LLI Sample # SW 6649210  
 LLI Group # 1308379  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/09/2012 13:55

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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SL613 SDG#: PH006-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	5.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-613-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-613-SA5C-SB

LLI Sample # SW 6649210  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/09/2012 13:55

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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SL613 SDG#: PH006-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0312 JQ	0.0129	1.01	1
11031	12378-PeCDD	40321-76-4	0.114 JB	0.0234	5.04	1
11031	123478-HxCDD	39227-28-6	0.0813 J	0.0209	5.04	1
11031	123678-HxCDD	57653-85-7	0.271 JB	0.0206	5.04	1
11031	123789-HxCDD	19408-74-3	0.256 JQ	0.0202	5.04	1
11031	1234678-HpCDD	35822-46-9	5.62 B	0.0268	5.04	1
11031	OCDD	3268-87-9	59.2 B	0.0378	10.1	1
11031	2378-TCDF	51207-31-9	0.0544 J	0.0225	1.01	1
11031	12378-PeCDF	57117-41-6	0.154 J	0.0141	5.04	1
11031	23478-PeCDF	57117-31-4	0.145 JB	0.0164	5.04	1
11031	123478-HxCDF	70648-26-9	0.556 JBQ	0.0268	5.04	1
11031	123678-HxCDF	57117-44-9	0.0892 JBQ	0.0191	5.04	1
11031	123789-HxCDF	72918-21-9	0.0506 JBQ	0.0188	5.04	1
11031	234678-HxCDF	60851-34-5	0.115 JBQ	0.0149	5.04	1
11031	1234678-HpCDF	67562-39-4	0.885 JBQ	0.0128	5.04	1
11031	1234789-HpCDF	55673-89-7	0.105 JBQ	0.0179	5.04	1
11031	OCDF	39001-02-0	1.83 JB	0.0237	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	49	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-613-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-613-SA5C-SB

LLI Sample # SW 6649210  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/09/2012 13:55

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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SL613 SDG#: PH006-04

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-613-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-613-SA5C-SB

LLI Sample # SW 6649210  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/09/2012 13:55

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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SL613 SDG#: PH006-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12144002	05/25/2012 13:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12144002	05/23/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401B	05/15/2012 11:55	Stephanie A Sanchez	1

Sample Description: **EB-051012 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB**

LLI Sample # **WW 6649211**  
 LLI Group # **1308379**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 05/10/2012 15:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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613EB SDG#: PH006-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.212 U	0.212	2.03	1
10915	12378-PeCDD	40321-76-4	0.407 JQ	0.381	10.2	1
10915	123478-HxCDD	39227-28-6	0.462 JB	0.185	10.2	1
10915	123678-HxCDD	57653-85-7	0.369 JB	0.188	10.2	1
10915	123789-HxCDD	19408-74-3	0.488 JBQ	0.186	10.2	1
10915	1234678-HpCDD	35822-46-9	3.62 JB	0.157	10.2	1
10915	OCDD	3268-87-9	6.97 JB	0.339	20.3	1
10915	2378-TCDF	51207-31-9	0.156 U	0.156	2.03	1
10915	12378-PeCDF	57117-41-6	0.302 JBQ	0.194	10.2	1
10915	23478-PeCDF	57117-31-4	0.447 JBQ	0.171	10.2	1
10915	123478-HxCDF	70648-26-9	0.328 JBQ	0.106	10.2	1
10915	123678-HxCDF	57117-44-9	0.316 JBQ	0.101	10.2	1
10915	123789-HxCDF	72918-21-9	0.109 U	0.109	10.2	1
10915	234678-HxCDF	60851-34-5	0.0998 U	0.0998	10.2	1
10915	1234678-HpCDF	67562-39-4	0.732 JBQ	0.0837	10.2	1
10915	1234789-HpCDF	55673-89-7	0.394 JBQ	0.0954	10.2	1
10915	OCDF	39001-02-0	0.567 JBQ	0.253	20.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	52	25 - 164
13C12-12378-PeCDD	52	25 - 181
13C12-123478-HxCDD	51	32 - 141
13C12-123678-HxCDD	49	28 - 130
13C12-123789-HxCDD	50	28 - 130
13C12-1234678-HpCDD	47	23 - 140
13C12-OCDD	43	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	57	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	53	26 - 123
13C12-234678-HxCDF	56	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	49	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	45	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB-051012 Water  
SSFL Phase 3 Soil Sampling  
EB

LLI Sample # WW 6649211  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 15:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

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Fairfax VA 22030

613EB SDG#: PH006-05EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans 10-15 day	EPA 1613B	1	12144001	05/24/2012 22:11	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12144001	05/24/2012 07:00	Deborah M Zimmerman	1

**Sample Description:** SL-512-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649212  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:30

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

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SL512 SDG#: PH006-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	14.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-512-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649212  
LLI Group # 1308379  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/10/2012 10:30

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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Fairfax VA 22030

SL512 SDG#: PH006-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0224 J	0.0126	1.16	1
11031	12378-PeCDD	40321-76-4	0.110 JBQ	0.0285	5.81	1
11031	123478-HxCDD	39227-28-6	0.159 J	0.0279	5.81	1
11031	123678-HxCDD	57653-85-7	0.480 JB	0.0279	5.81	1
11031	123789-HxCDD	19408-74-3	0.342 J	0.0276	5.81	1
11031	1234678-HpCDD	35822-46-9	13.4 B	0.0433	5.81	1
11031	OCDD	3268-87-9	221 B	0.0505	11.6	1
11031	2378-TCDF	51207-31-9	0.0334 JQ	0.0301	1.16	1
11031	12378-PeCDF	57117-41-6	0.247 J	0.0185	5.81	1
11031	23478-PeCDF	57117-31-4	0.127 JB	0.0215	5.81	1
11031	123478-HxCDF	70648-26-9	0.270 JB	0.0235	5.81	1
11031	123678-HxCDF	57117-44-9	0.0916 JB	0.0186	5.81	1
11031	123789-HxCDF	72918-21-9	0.133 JB	0.0287	5.81	1
11031	234678-HxCDF	60851-34-5	0.120 JBQ	0.0203	5.81	1
11031	1234678-HpCDF	67562-39-4	1.66 JB	0.0164	5.81	1
11031	1234789-HpCDF	55673-89-7	0.182 JB	0.0319	5.81	1
11031	OCDF	39001-02-0	4.36 JB	0.0279	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	44	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-512-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-512-SA5C-SB

LLI Sample # SW 6649212  
 LLI Group # 1308379  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:30

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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SL512 SDG#: PH006-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-512-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649212  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:30

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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Fairfax VA 22030

SL512 SDG#: PH006-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12144002	05/25/2012 12:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12144002	05/23/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401B	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-812-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-812-SA5C-SB

LLI Sample # SW 6649213  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 11:40

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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Fairfax VA 22030

SL812 SDG#: PH006-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-812-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-812-SA5C-SB

LLI Sample # SW 6649213  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 11:40

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL812 SDG#: PH006-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.106	JQ 0.0179	1.06	1
11031	12378-PeCDD	40321-76-4	0.992	JB 0.0459	5.31	1
11031	123478-HxCDD	39227-28-6	2.14	J 0.0494	5.31	1
11031	123678-HxCDD	57653-85-7	14.8	B 0.0473	5.31	1
11031	123789-HxCDD	19408-74-3	4.27	J 0.0475	5.31	1
11031	1234678-HpCDD	35822-46-9	312	B 0.145	5.31	1
11031	OCDD	3268-87-9	3,050	B 0.202	10.6	1
11031	2378-TCDF	51207-31-9	0.830	J 0.0640	1.06	1
11031	12378-PeCDF	57117-41-6	3.82	J 0.0331	5.31	1
11031	23478-PeCDF	57117-31-4	4.66	JB 0.0317	5.31	1
11031	123478-HxCDF	70648-26-9	5.27	JB 0.0580	5.31	1
11031	123678-HxCDF	57117-44-9	3.16	JB 0.0477	5.31	1
11031	123789-HxCDF	72918-21-9	2.47	JB 0.0398	5.31	1
11031	234678-HxCDF	60851-34-5	3.40	JB 0.0353	5.31	1
11031	1234678-HpCDF	67562-39-4	39.1	B 0.0613	5.31	1
11031	1234789-HpCDF	55673-89-7	1.89	JBQ 0.0541	5.31	1
11031	OCDF	39001-02-0	44.0	B 0.0401	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	54	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	59	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	62	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-812-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-812-SA5C-SB

LLI Sample # SW 6649213  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 11:40

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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SL812 SDG#: PH006-07

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-812-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-812-SA5C-SB

LLI Sample # SW 6649213  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 11:40

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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SL812 SDG#: PH006-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12144002	05/25/2012 14:39	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12144002	05/23/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401B	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-513-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-513-SA5C-SB

LLI Sample # SW 6649214  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 15:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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Fairfax VA 22030

SL513 SDG#: PH006-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-513-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-513-SA5C-SB

LLI Sample # SW 6649214  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 15:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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SL513 SDG#: PH006-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0816	J	0.0127	1.08	1
11031	12378-PeCDD	40321-76-4	0.239	JB	0.0237	5.38	1
11031	123478-HxCDD	39227-28-6	0.157	JQ	0.0193	5.38	1
11031	123678-HxCDD	57653-85-7	0.419	JBQ	0.0190	5.38	1
11031	123789-HxCDD	19408-74-3	0.585	JQ	0.0197	5.38	1
11031	1234678-HpCDD	35822-46-9	5.62	B	0.0291	5.38	1
11031	OCDD	3268-87-9	69.1	B	0.0432	10.8	1
11031	2378-TCDF	51207-31-9	0.0840	J	0.0255	1.08	1
11031	12378-PeCDF	57117-41-6	0.380	J	0.0153	5.38	1
11031	23478-PeCDF	57117-31-4	0.335	JB	0.0168	5.38	1
11031	123478-HxCDF	70648-26-9	0.231	JB	0.0190	5.38	1
11031	123678-HxCDF	57117-44-9	0.179	JBQ	0.0146	5.38	1
11031	123789-HxCDF	72918-21-9	0.379	JBQ	0.0185	5.38	1
11031	234678-HxCDF	60851-34-5	0.156	JBQ	0.0139	5.38	1
11031	1234678-HpCDF	67562-39-4	0.784	JBQ	0.0134	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0372	JBQ	0.0222	5.38	1
11031	OCDF	39001-02-0	1.82	JB	0.0296	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	47	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-513-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-513-SA5C-SB

**LLI Sample #** SW 6649214  
**LLI Group #** 1308379  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 15:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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SL513 SDG#: PH006-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-513-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-513-SA5C-SB

LLI Sample # SW 6649214  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 15:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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Fairfax VA 22030

SL513 SDG#: PH006-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12144002	05/25/2012 15:36	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12144002	05/23/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401B	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-512-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649215  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 14:05

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

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Fairfax VA 22030

S-512 SDG#: PH006-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-512-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649215  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 14:05

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

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S-512 SDG#: PH006-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0808	J	0.0188	1.12	1
11031	12378-PeCDD	40321-76-4	0.372	JB	0.0390	5.60	1
11031	123478-HxCDD	39227-28-6	0.780	J	0.0436	5.60	1
11031	123678-HxCDD	57653-85-7	2.63	JB	0.0426	5.60	1
11031	123789-HxCDD	19408-74-3	1.42	J	0.0395	5.60	1
11031	1234678-HpCDD	35822-46-9	62.1	B	0.0792	5.60	1
11031	OCDD	3268-87-9	683	B	0.121	11.2	1
11031	2378-TCDF	51207-31-9	0.159	J	0.0438	1.12	1
11031	12378-PeCDF	57117-41-6	0.588	J	0.0254	5.60	1
11031	23478-PeCDF	57117-31-4	0.729	JB	0.0272	5.60	1
11031	123478-HxCDF	70648-26-9	1.21	JB	0.0535	5.60	1
11031	123678-HxCDF	57117-44-9	0.613	JB	0.0431	5.60	1
11031	123789-HxCDF	72918-21-9	0.485	JB	0.0326	5.60	1
11031	234678-HxCDF	60851-34-5	0.593	JB	0.0267	5.60	1
11031	1234678-HpCDF	67562-39-4	8.00	B	0.0388	5.60	1
11031	1234789-HpCDF	55673-89-7	0.544	JB	0.0371	5.60	1
11031	OCDF	39001-02-0	14.4	B	0.0419	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	74	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	52	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	55	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	52	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-512-SA5C-SB-6.0-7.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-512-SA5C-SB

**LLI Sample #** SW 6649215  
**LLI Group #** 1308379  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 14:05

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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S-512 SDG#: PH006-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-512-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649215  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 14:05

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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S-512 SDG#: PH006-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12144002	05/25/2012 16:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12144002	05/23/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401B	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649216  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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SL512 SDG#: PH006-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649216  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

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Reported: 05/29/2012 14:37

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SL512 SDG#: PH006-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			<b>ng/kg</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.150	J	0.0265	1.10	1
11031	12378-PeCDD	40321-76-4	1.05	JB	0.0480	5.52	1
11031	123478-HxCDD	39227-28-6	2.26	J	0.0486	5.52	1
11031	123678-HxCDD	57653-85-7	7.14	B	0.0476	5.52	1
11031	123789-HxCDD	19408-74-3	4.16	J	0.0483	5.52	1
11031	1234678-HpCDD	35822-46-9	173	B	0.130	5.52	1
11031	OCDD	3268-87-9	2,020	B	0.160	11.0	1
11031	2378-TCDF	51207-31-9	0.554	J	0.0804	1.10	1
11031	12378-PeCDF	57117-41-6	2.40	J	0.0467	5.52	1
11031	23478-PeCDF	57117-31-4	1.93	JB	0.0411	5.52	1
11031	123478-HxCDF	70648-26-9	2.08	JB	0.0398	5.52	1
11031	123678-HxCDF	57117-44-9	1.21	JB	0.0375	5.52	1
11031	123789-HxCDF	72918-21-9	0.762	JBQ	0.0386	5.52	1
11031	234678-HxCDF	60851-34-5	1.17	JB	0.0364	5.52	1
11031	1234678-HpCDF	67562-39-4	20.6	B	0.0463	5.52	1
11031	1234789-HpCDF	55673-89-7	1.28	JB	0.0560	5.52	1
11031	OCDF	39001-02-0	53.9	B	0.0449	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	91	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	95	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	61	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-512-SA5C-SB

LLI Sample # SW 6649216  
 LLI Group # 1308379  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

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SL512 SDG#: PH006-10BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649216  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL512 SDG#: PH006-10BKG

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12144002	05/25/2012 17:29	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12144002	05/23/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12136162401B	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-512-SA5C-SB

LLI Sample # SW 6649217  
 LLI Group # 1308379  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL512 SDG#: PH006-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 11.3	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

Sample Description: SL-512-SA5C-SB-0.0-0.5 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649217  
LLI Group # 1308379  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/10/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL512 SDG#: PH006-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	25.3	0.0280	1.11	1
11031	12378-PeCDD	40321-76-4	124	B 0.0692	5.54	1
11031	123478-HxCDD	39227-28-6	120	0.0751	5.54	1
11031	123678-HxCDD	57653-85-7	125	B 0.0749	5.54	1
11031	123789-HxCDD	19408-74-3	130	0.0706	5.54	1
11031	1234678-HpCDD	35822-46-9	294	B 0.133	5.54	1
11031	OCDD	3268-87-9	2,100	B 0.206	11.1	1
11031	2378-TCDF	51207-31-9	25.1	0.0867	1.11	1
11031	12378-PeCDF	57117-41-6	126	0.0513	5.54	1
11031	23478-PeCDF	57117-31-4	117	B 0.0481	5.54	1
11031	123478-HxCDF	70648-26-9	121	B 0.0649	5.54	1
11031	123678-HxCDF	57117-44-9	119	B 0.0649	5.54	1
11031	123789-HxCDF	72918-21-9	119	B 0.0720	5.54	1
11031	234678-HxCDF	60851-34-5	115	B 0.0622	5.54	1
11031	1234678-HpCDF	67562-39-4	129	B 0.0639	5.54	1
11031	1234789-HpCDF	55673-89-7	116	B 0.0840	5.54	1
11031	OCDF	39001-02-0	275	B 0.0887	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	55	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-512-SA5C-SB

LLI Sample # SW 6649217  
 LLI Group # 1308379  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL512 SDG#: PH006-10MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649217  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL512 SDG#: PH006-10MS

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12144002	05/25/2012 18:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12144002	05/23/2012 11:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12136162401B	05/15/2012 11:55	Stephanie A Sanchez	1

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649218  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL512 SDG#: PH006-10MSD\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture CDM	n.a.	11.3	0.50	0.50	1
11626	Moisture Duplicate CDM	n.a.	11.8	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649218  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL512 SDG#: PH006-10MSD\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	26.0	0.0354	1.13	1
11031	12378-PeCDD	40321-76-4	126	B 0.0837	5.64	1
11031	123478-HxCDD	39227-28-6	123	0.0843	5.64	1
11031	123678-HxCDD	57653-85-7	140	B 0.0834	5.64	1
11031	123789-HxCDD	19408-74-3	137	0.0821	5.64	1
11031	1234678-HpCDD	35822-46-9	593	B 0.198	5.64	1
11031	OCDD	3268-87-9	3,600	B 0.345	11.3	1
11031	2378-TCDF	51207-31-9	25.3	0.0775	1.13	1
11031	12378-PeCDF	57117-41-6	127	0.0454	5.64	1
11031	23478-PeCDF	57117-31-4	118	B 0.0414	5.64	1
11031	123478-HxCDF	70648-26-9	122	B 0.0891	5.64	1
11031	123678-HxCDF	57117-44-9	124	B 0.0833	5.64	1
11031	123789-HxCDF	72918-21-9	121	B 0.102	5.64	1
11031	234678-HxCDF	60851-34-5	118	B 0.0817	5.64	1
11031	1234678-HpCDF	67562-39-4	135	B 0.0815	5.64	1
11031	1234789-HpCDF	55673-89-7	117	B 0.113	5.64	1
11031	OCDF	39001-02-0	294	B 0.132	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	58	23 - 140
13C12-OCDD	41	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	35	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-512-SA5C-SB-0.0-0.5 MSD Soil  
 SSFL Phase 3 Soil Sampling  
 SL-512-SA5C-SB

LLI Sample # SW 6649218  
 LLI Group # 1308379  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL512 SDG#: PH006-10MSD\*

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-512-SA5C-SB-0.0-0.5 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-512-SA5C-SB

LLI Sample # SW 6649218  
LLI Group # 1308379  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/10/2012 10:00

CDM Federal Programs Corp.

Submitted: 05/11/2012 09:40

3201 Jermantown Road

Reported: 05/29/2012 14:37

Suite 400

Fairfax VA 22030

SL512 SDG#: PH006-10MSD\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12144002	05/25/2012 19:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12144002	05/23/2012 11:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12136162401B	05/15/2012 11:55	Stephanie A Sanchez	1
11626	Moisture Duplicate CDM	EPA 160.3 modified	1	12136162401B	05/15/2012 11:55	Stephanie A Sanchez	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/29/12 at 02:37 PM

Group Number: 1308379

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12136162401B	Sample number(s): 6649207-6649210, 6649212-6649218								
Moisture CDM					100		80-120		
Moisture CDM					100		80-120		
Moisture Duplicate CDM					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12144001	Sample number(s): 6649211								
2378-TCDD	0.168	U	0.168	2.00	pg/l	109	67-158		
12378-PeCDD	0.329	U	0.329	10.0	pg/l	109	70-142		
123478-HxCDD	0.716	J	0.205	10.0	pg/l	105	70-164		
123678-HxCDD	0.352	J	0.200	10.0	pg/l	101	76-134		
123789-HxCDD	0.393	J	0.199	10.0	pg/l	107	64-162		
1234678-HpCDD	3.60	J	0.173	10.0	pg/l	107	70-140		
OCDD	7.55	J	0.302	20.0	pg/l	100	78-144		
2378-TCDF	0.150	U	0.150	2.00	pg/l	100	75-158		
12378-PeCDF	0.550	J	0.206	10.0	pg/l	107	80-134		
23478-PeCDF	0.923	J	0.179	10.0	pg/l	100	68-160		
123478-HxCDF	0.397	J	0.124	10.0	pg/l	103	72-134		
123678-HxCDF	0.921	J	0.124	10.0	pg/l	104	84-130		
123789-HxCDF	0.721	J	0.121	10.0	pg/l	103	78-130		
234678-HxCDF	0.565	J	0.110	10.0	pg/l	100	70-156		
1234678-HpCDF	1.67	J	0.123	10.0	pg/l	98	82-122		
1234789-HpCDF	1.02	J	0.140	10.0	pg/l	101	78-138		
OCDF	1.75	J	0.247	20.0	pg/l	98	63-170		

Batch number: 12144002	Sample number(s): 6649207-6649210, 6649212-6649218								
2378-TCDD	0.0121	U	0.0121	1.00	ng/kg	110	67-158		
12378-PeCDD	0.0281	J	0.0228	5.00	ng/kg	111	70-142		
123478-HxCDD	0.0115	U	0.0115	5.00	ng/kg	104	70-164		
123678-HxCDD	0.0243	J	0.0116	5.00	ng/kg	103	76-134		
123789-HxCDD	0.0111	U	0.0111	5.00	ng/kg	110	64-162		
1234678-HpCDD	0.298	J	0.00990	5.00	ng/kg	108	70-140		
OCDD	0.492	J	0.0179	10.0	ng/kg	101	78-144		
2378-TCDF	0.0107	U	0.0107	1.00	ng/kg	115	75-158		
12378-PeCDF	0.0116	U	0.0116	5.00	ng/kg	106	80-134		
23478-PeCDF	0.0612	J	0.0121	5.00	ng/kg	101	68-160		
123478-HxCDF	0.0248	J	0.00870	5.00	ng/kg	102	72-134		
123678-HxCDF	0.0101	J	0.00740	5.00	ng/kg	103	84-130		
123789-HxCDF	0.0178	J	0.0105	5.00	ng/kg	106	78-130		
234678-HxCDF	0.0104	J	0.00780	5.00	ng/kg	100	70-156		
1234678-HpCDF	0.0625	J	0.00580	5.00	ng/kg	97	82-122		
1234789-HpCDF	0.0221	J	0.0102	5.00	ng/kg	104	78-138		
OCDF	0.127	J	0.0162	10.0	ng/kg	101	63-170		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/29/12 at 02:37 PM

Group Number: 1308379

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12136162401B	Sample number(s): 6649207-6649210,6649212-6649218 BKG: 6649216								
Moisture CDM						11.3	11.8	5	20
Moisture CDM						11.3	11.8	5	20
Moisture Duplicate CDM						11.3	11.8	5	20
Batch number: 12144002	Sample number(s): 6649207-6649210,6649212-6649218 UNSPK: 6649216								
2378-TCDD	113	114	67-158	3	25				
12378-PeCDD	111	111	70-142	1	25				
123478-HxCDD	106	108	70-164	3	25				
123678-HxCDD	106	118	76-134	12	25				
123789-HxCDD	113	118	64-162	6	25				
1234678-HpCDD	109	372*	70-140	67*	25				
OCDD	39 (2)	702 (2)	78-144	52*	25				
2378-TCDF	111	110	75-158	1	25				
12378-PeCDF	111	110	80-134	1	25				
23478-PeCDF	104	103	68-160	0	25				
123478-HxCDF	107	106	72-134	1	25				
123678-HxCDF	106	109	84-130	4	25				
123789-HxCDF	106	107	78-130	2	25				
234678-HxCDF	103	104	70-156	3	25				
1234678-HpCDF	98	101	82-122	5	25				
1234789-HpCDF	104	102	78-138	1	25				
OCDF	100	107	63-170	7	25				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b. Dioxins/Furans 10-15 day

Batch number: 12144001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6649211	52	61	53	53	56	53
Blank	61	66	62	62	64	67
OPR	63	67	73	72	72	74
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6649211	49	49	45	52	51	49
Blank	59	59	56	59	58	57
OPR	65	64	59	61	67	66

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/29/12 at 02:37 PM

Group Number: 1308379

### Surrogate Quality Control

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6649211	50	47	43	58	57	
Blank	59	57	54	67	65	
OPR	68	61	57	68	68	

Limits:	28-130	23-140	17-157	24-169	24-185	
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Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12144002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6649207	95	102	88	98	102	98
6649208	82	87	76	85	84	81
6649209	82	79	42	50	88	83
6649210	76	77	48	64	79	73
6649212	74	72	73	87	74	60
6649213	78	82	54	64	86	82
6649214	73	76	62	77	76	65
6649215	74	77	43	52	79	74
6649216	83	90	91	89	89	95
6649217	75	83	86	85	85	81
6649218	71	79	79	79	79	73
Blank	67	71	73	84	76	64
MS	75	83	86	85	85	81
MSD	71	79	79	79	79	73
OPR	61	65	66	79	70	60

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6649207	94	91	88	93	95	93
6649208	82	77	69	80	79	78
6649209	38	58	34	75	61	66
6649210	71	58	49	74	79	78
6649212	93	54	44	72	77	75
6649213	59	73	62	74	71	73
6649214	83	56	47	75	78	79
6649215	55	63	52	71	67	67
6649216	80	75	61	81	82	81
6649217	74	68	55	74	78	75
6649218	68	54	35	71	72	69
Blank	100	64	62	73	81	79
MS	74	68	55	74	78	75
MSD	68	54	35	71	72	69
OPR	105	57	58	70	79	75

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6649207	94	90	91	103	108	
6649208	80	88	72	90	93	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/29/12 at 02:37 PM

Group Number: 1308379

### Surrogate Quality Control

6649209	79	55	36	92	87
6649210	80	76	62	80	92
6649212	77	78	62	77	89
6649213	78	76	63	88	86
6649214	78	76	60	77	88
6649215	74	72	58	81	86
6649216	82	73	60	89	90
6649217	77	68	54	83	83
6649218	72	58	41	79	80
Blank	79	79	79	65	82
MS	77	68	54	83	83
MSD	72	58	41	79	80
OPR	77	81	84	56	76

---

Limits: 28-130                      23-140                      17-157                      24-169                      24-185

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1308379

# Sample# 6649207-18 SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 5/10/2012

Carrier Name: FedEx

Airbill No:

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No:

20120510-02

Cooler #:

Lab:

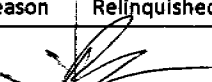
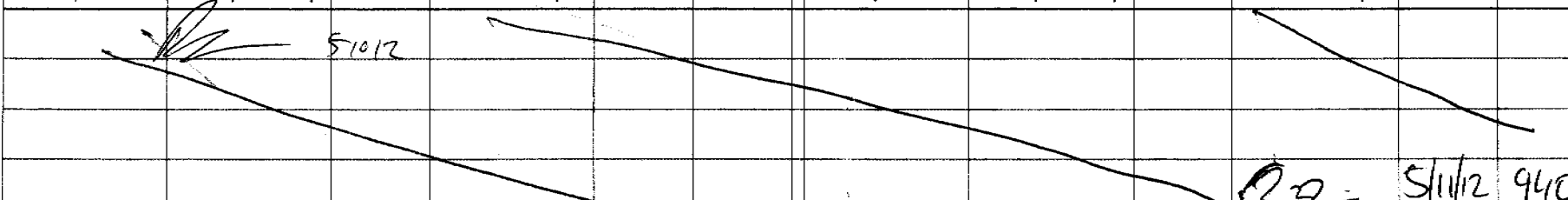
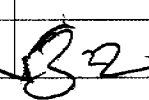
Landcaster

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Other Analysis/Notes
SL-542-SA5C-SB-0.0-0.5	5/9/12 09:00	SO	None	1 - SS-Sleeve	10 day	
SL-542-SA5C-SB-1.0-2.0	5/9/12 09:30	SO	None	1 - SS-Sleeve	10 day	
SL-566-SA5C-SB-0.0-0.5	5/8/12 14:40	SO	None	1 - SS-Sleeve	10 day	
SL-613-SA5C-SB-0.0-0.5	5/9/12 13:55	SO	None	1 - SS-Sleeve	10 day	
EB-051012	5/10/12 15:00	WQ	None	1 - 1 L Amber	10 day	
SL-512-SA5C-SB-4.0-5.0	5/10/12 10:30	SO	None	1 - SS-Sleeve	10 day	
SL-812-SA5C-SB-0.0-0.5	5/10/12 11:40	SO	None	1 - SS-Sleeve	10 day	
SL-513-SA5C-SB-4.0-5.0	5/10/12 15:00	SO	None	1 - SS-Sleeve	10 day	
SL-512-SA5C-SB-6.0-7.0	5/10/12 14:05	SO	None	1 - SS-Sleeve	10 day	
SL-512-SA5C-SB-0.0-0.5MS	5/10/12 10:00	SO	None	1 - SS-Sleeve	10 day	MS/MSD

Special Instructions: **SAMPLES TRANSFERRED FROM**  
**CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
		5/10/12									
											
										5/11/12	940

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 25, 2012

Project: SSFL Phase 3 Sampling

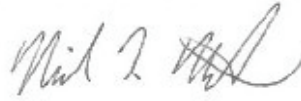
Submittal Date: 05/18/2012  
Group Number: 1309904  
SDG: PT006  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-695-SA5C-SB-4.0-5.0 Soil  
SL-695-SA5C-SB-9.0-10.0 Soil  
EB1-051712 WaterLancaster Labs (LLI) #6657008  
6657009  
6657010

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC     CDM Federal Services Program  
COPY TO  
1 COPY TO     Data Package Group

Attn: Todd Burgesser

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-695-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-695-SA5C-SB

LLI Sample # SW 6657008  
LLI Group # 1309904  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/16/2012 08:55

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 05/25/2012 09:52

Suite 400

Fairfax VA 22030

695-4 SDG#: PT006-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,200	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	8.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121420019A	05/23/2012 19:36	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121420019A	05/22/2012 10:05	Denise L Trimby	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12145162401A	05/24/2012 12:02	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-695-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-695-SA5C-SB

LLI Sample # SW 6657009  
LLI Group # 1309904  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/16/2012 09:56

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 05/25/2012 09:52

Suite 400

Fairfax VA 22030

69510 SDG#: PT006-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,400	U 1,400	3,400	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	13.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121420019A	05/23/2012 20:14	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121420019A	05/22/2012 10:05	Denise L Trimby	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12145162401A	05/24/2012 12:02	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB1-051712 Water  
SSFL Phase 3 Soil Sampling  
EB1

LLI Sample # WW 6657010  
LLI Group # 1309904  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:00

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 05/25/2012 09:52

Suite 400

Fairfax VA 22030

695EQ SDG#: PT006-03EB\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>							
		<b>SW-846 8315A</b>	ug/l		ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10 U		10	50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	20b Formaldehyde 8315A	SW-846 8315A	1	121390021A	05/21/2012 19:42	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	121390021A	05/20/2012 13:25	Denise L Trimby	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/25/12 at 09:52 AM

Group Number: 1309904

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121390021A 20b Formaldehyde 8315A	Sample number(s): 6657010 10 U	10.	50	ug/l	90	86	69-130	5	30
Batch number: 121420019A 20a Formaldehyde 8315A	Sample number(s): 6657008-6657009 1,200 U	1,200.	3,000	ug/kg	100		80-126		
Batch number: 12145162401A Moisture Content by 160.3	Sample number(s): 6657008-6657009				100		80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121420019A 20a Formaldehyde 8315A	Sample number(s): 6657008-6657009 98	99	80-120	2	50	UNSPK: 6657008			
Batch number: 12145162401A Moisture Content by 160.3	Sample number(s): 6657008-6657009					BKG: P657017 9.7	9.9	2	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20b Formaldehyde 8315A  
Batch number: 121390021A  
Butyraldehyde

6657010	97
Blank	95
LCS	89
LCSD	85

Limits: 45-145

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/25/12 at 09:52 AM

Group Number: 1309904

### Surrogate Quality Control

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121420019A  
Butyraldehyde

---

6657008	89
6657009	90
Blank	99
LCS	94
MS	93
MSD	95

---

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

acct# 13013 Cup# 1309904

sample# 6657008-10  
**SSFL Phase 3 Chain of Custody**

CDM Smith  
 Date Shipped: 5/17/2012  
 Carrier Name: FedEx  
 Airbill No: 793579665707

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120517-02  
 Cooler #:   
 Lab: Landcaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SUOC 8270	Fluoride 3000/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Perchlorate Confirm 6850/6860	Perchlorate 314/331	PH 9040 (Water)	PH 9045 (Soil)	Herbicides 8151	Hex Cr 7196/7199	1,4 Dioxane 8260 SIM	VOCs 8260	TPH-GR0 8015	TPH-EH1 8015	Glycols 8015	Terphenyls 8015	Nitrates 3000/9056	Emeretics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Methyl Mercury 1630	Other Analysis/Notes		
SL-513-SA5C-SB-9.0-10.0	5/14/12 10:10	SO	None	1 - SS-Sleeve	10 day																															
SL-514-SA5C-SB-4.0-5.0	5/14/12 11:20	SO	None	1 - SS-Sleeve	10 day																															
SL-514-SA5C-SB-9.0-10.0	5/14/12 12:25	SO	None	1 - SS-Sleeve	10 day																															
SL-695-SA5C-SB-4.0-5.0	5/16/12 08:55	SO	None	1 - SS-Sleeve	10 day																															
SL-695-SA5C-SB-9.0-10.0	5/16/12 09:56	SO	None	1 - SS-Sleeve	10 day																															
EB1-051712	5/17/12 14:00	WQ	None	2 - 1 L Amber	10 day																															
SL-735-SA5C-SB-4.0-5.0	5/17/12 08:53	SO	None	1 - 4 oz glass	10 day																															
SL-735-SA5C-SB-9.0-10.0	5/17/12 08:58	SO	None	1 - 4 oz glass	10 day																															
SL-737-SA5C-SB-4.0-5.0	5/17/12 10:47	SO	None	1 - 4 oz glass	10 day																															
SL-737-SA5C-SB-9.0-10.0	5/17/12 10:51	SO	None	1 - 4 oz glass	10 day																															
EB2-051712	5/17/12 14:45	WQ	None	2 - 1 L Amber	10 day																															
SL-686-SA5C-SB-4.0-5.0	5/17/12 13:56	SO	None	1 - 4 oz glass	10 day																															
SL-686-SA5C-SB-9.0-10.0	5/17/12 14:00	SO	None	1 - 4 oz glass	10 day																															
SL-738-SA5C-SB-0.0-0.5	5/17/12 12:50	SO	None	1 - 4 oz glass	10 day																															
SL-738-SA5C-SB-4.0-5.0	5/17/12 13:01	SO	None	1 - 4 oz glass	10 day																															
SL-738-SA5C-SB-9.0-10.0	5/17/12 13:08	SO	None	1 - 4 oz glass	10 day																															
SL-739-SA5C-SB-0.0-0.5	5/17/12 14:45	SO	None	1 - 4 oz glass	10 day																															
SL-739-SA5C-SB-4.0-5.0	5/17/12 14:50	SO	None	1 - 4 oz glass	10 day																															
SL-739-SA5C-SB-9.0-10.0	5/17/12 14:55	SO	None	1 - 4 oz glass	10 day																															

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	5/17/12									
									<i>[Signature]</i>	5/18/12	0925

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

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2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 04, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 05/18/2012  
Group Number: 1309905  
SDG: PH007  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-513-SA5C-SB-9.0-10.0 Soil  
SL-514-SA5C-SB-4.0-5.0 Soil  
SL-514-SA5C-SB-9.0-10.0 Soil  
EB1-051712 Water  
SL-735-SA5C-SB-4.0-5.0 Soil  
SL-735-SA5C-SB-9.0-10.0 Soil  
SL-737-SA5C-SB-4.0-5.0 Soil  
SL-737-SA5C-SB-9.0-10.0 Soil  
EB2-051712 Water  
SL-686-SA5C-SB-4.0-5.0 Soil  
SL-686-SA5C-SB-9.0-10.0 Soil  
SL-738-SA5C-SB-0.0-0.5 Soil  
SL-738-SA5C-SB-4.0-5.0 Soil  
SL-738-SA5C-SB-9.0-10.0 Soil  
SL-739-SA5C-SB-0.0-0.5 Soil  
SL-739-SA5C-SB-4.0-5.0 Soil  
SL-739-SA5C-SB-9.0-10.0 SoilLancaster Labs (LLI) #6657011  
6657012  
6657013  
6657014  
6657015  
6657016  
6657017  
6657018  
6657019  
6657020  
6657021  
6657022  
6657023  
6657024  
6657025  
6657026  
6657027

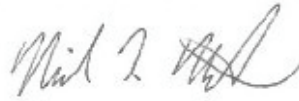
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program

Attn: Todd Burgess

ELECTRONIC     Data Package Group  
COPY TO

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-513-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-513-SA5C-SB

LLI Sample # SW 6657011  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/14/2012 10:10

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

513-9 SDG#: PH007-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-513-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-513-SA5C-SB

LLI Sample # SW 6657011  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/14/2012 10:10

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513-9 SDG#: PH007-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0200 JBQ	0.0165	1.15	1
11031	12378-PeCDD	40321-76-4	0.0682 JBQ	0.0316	5.74	1
11031	123478-HxCDD	39227-28-6	0.108 JBQ	0.0229	5.74	1
11031	123678-HxCDD	57653-85-7	0.0928 JBQ	0.0232	5.74	1
11031	123789-HxCDD	19408-74-3	0.133 JB	0.0233	5.74	1
11031	1234678-HpCDD	35822-46-9	0.728 JB	0.0193	5.74	1
11031	OCDD	3268-87-9	3.89 JBQ	0.0415	11.5	1
11031	2378-TCDF	51207-31-9	0.0376 JBQ	0.0148	1.15	1
11031	12378-PeCDF	57117-41-6	0.131 JBQ	0.0159	5.74	1
11031	23478-PeCDF	57117-31-4	0.165 JB	0.0160	5.74	1
11031	123478-HxCDF	70648-26-9	0.0803 JBQ	0.0152	5.74	1
11031	123678-HxCDF	57117-44-9	0.106 JBQ	0.0128	5.74	1
11031	123789-HxCDF	72918-21-9	0.0655 JBQ	0.0166	5.74	1
11031	234678-HxCDF	60851-34-5	0.109 JBQ	0.0143	5.74	1
11031	1234678-HpCDF	67562-39-4	0.181 JB	0.0103	5.74	1
11031	1234789-HpCDF	55673-89-7	0.0398 JB	0.0198	5.74	1
11031	OCDF	39001-02-0	0.279 JB	0.0348	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	41	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-513-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-513-SA5C-SB

LLI Sample # SW 6657011  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/14/2012 10:10

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Submitted: 05/18/2012 09:25

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513-9 SDG#: PH007-01

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-513-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-513-SA5C-SB

LLI Sample # SW 6657011  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/14/2012 10:10

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513-9 SDG#: PH007-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 01:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401A	05/24/2012 12:02	William C Schwebel	1

**Sample Description:** SL-514-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6657012  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/14/2012 11:20

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514-4 SDG#: PH007-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-514-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6657012  
LLI Group # 1309905  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/14/2012 11:20

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514-4 SDG#: PH007-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0115	U	0.0115	1.11	1
11031	12378-PeCDD	40321-76-4	0.0363	JB	0.0302	5.55	1
11031	123478-HxCDD	39227-28-6	0.0538	JB	0.0234	5.55	1
11031	123678-HxCDD	57653-85-7	0.140	JBQ	0.0242	5.55	1
11031	123789-HxCDD	19408-74-3	0.141	JBQ	0.0228	5.55	1
11031	1234678-HpCDD	35822-46-9	2.39	JB	0.0205	5.55	1
11031	OCDD	3268-87-9	23.5	B	0.0382	11.1	1
11031	2378-TCDF	51207-31-9	0.0208	JBQ	0.0175	1.11	1
11031	12378-PeCDF	57117-41-6	0.0620	JBQ	0.0154	5.55	1
11031	23478-PeCDF	57117-31-4	0.0594	JBQ	0.0151	5.55	1
11031	123478-HxCDF	70648-26-9	0.0561	JBQ	0.0130	5.55	1
11031	123678-HxCDF	57117-44-9	0.0415	JBQ	0.0117	5.55	1
11031	123789-HxCDF	72918-21-9	0.0821	JBQ	0.0137	5.55	1
11031	234678-HxCDF	60851-34-5	0.0661	JB	0.0124	5.55	1
11031	1234678-HpCDF	67562-39-4	0.399	JBQ	0.0108	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0569	JB	0.0183	5.55	1
11031	OCDF	39001-02-0	0.739	JB	0.0344	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	49	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-514-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6657012  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/14/2012 11:20

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Submitted: 05/18/2012 09:25

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514-4 SDG#: PH007-02

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-514-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6657012  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/14/2012 11:20

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Submitted: 05/18/2012 09:25

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514-4 SDG#: PH007-02

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### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

---

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 02:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401A	05/24/2012 12:02	William C Schwebel	1

**Sample Description:** SL-514-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6657013  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/14/2012 12:25

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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514-9 SDG#: PH007-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	2.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-514-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6657013  
LLI Group # 1309905  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/14/2012 12:25

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Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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514-9 SDG#: PH007-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0120 U	0.0120	1.02	1
11031	12378-PeCDD	40321-76-4	0.0396 JBQ	0.0322	5.10	1
11031	123478-HxCDD	39227-28-6	0.0269 JBQ	0.0182	5.10	1
11031	123678-HxCDD	57653-85-7	0.134 JBQ	0.0182	5.10	1
11031	123789-HxCDD	19408-74-3	0.0812 JB	0.0190	5.10	1
11031	1234678-HpCDD	35822-46-9	1.70 JB	0.0193	5.10	1
11031	OCDD	3268-87-9	15.0 B	0.0405	10.2	1
11031	2378-TCDF	51207-31-9	0.0167 U	0.0167	1.02	1
11031	12378-PeCDF	57117-41-6	0.0438 JB	0.0134	5.10	1
11031	23478-PeCDF	57117-31-4	0.0365 JBQ	0.0146	5.10	1
11031	123478-HxCDF	70648-26-9	0.0436 JBQ	0.0108	5.10	1
11031	123678-HxCDF	57117-44-9	0.0275 JBQ	0.00926	5.10	1
11031	123789-HxCDF	72918-21-9	0.0795 JBQ	0.0120	5.10	1
11031	234678-HxCDF	60851-34-5	0.0572 JBQ	0.0105	5.10	1
11031	1234678-HpCDF	67562-39-4	0.242 JB	0.00916	5.10	1
11031	1234789-HpCDF	55673-89-7	0.0360 JBQ	0.0184	5.10	1
11031	OCDF	39001-02-0	0.600 JB	0.0326	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	42	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-514-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-514-SA5C-SB

LLI Sample # SW 6657013  
 LLI Group # 1309905  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/14/2012 12:25

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

514-9 SDG#: PH007-03

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-514-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-514-SA5C-SB

LLI Sample # SW 6657013  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/14/2012 12:25

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

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Fairfax VA 22030

514-9 SDG#: PH007-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 03:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401A	05/24/2012 12:02	William C Schwebel	1

Sample Description: **EB1-051712 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB1**

LLI Sample # **WW 6657014**  
 LLI Group # **1309905**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 05/17/2012 14:00

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

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514EB SDG#: PH007-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.703 JB	0.391	2.14	1
10915	12378-PeCDD	40321-76-4	0.596 JBQ	0.292	10.7	1
10915	123478-HxCDD	39227-28-6	0.490 JB	0.233	10.7	1
10915	123678-HxCDD	57653-85-7	0.331 JB	0.249	10.7	1
10915	123789-HxCDD	19408-74-3	0.756 JBQ	0.234	10.7	1
10915	1234678-HpCDD	35822-46-9	3.86 JB	0.274	10.7	1
10915	OCDD	3268-87-9	6.22 JB	0.327	21.4	1
10915	2378-TCDF	51207-31-9	0.497 JBQ	0.247	2.14	1
10915	12378-PeCDF	57117-41-6	0.348 JBQ	0.210	10.7	1
10915	23478-PeCDF	57117-31-4	0.669 JB	0.186	10.7	1
10915	123478-HxCDF	70648-26-9	0.396 JBQ	0.155	10.7	1
10915	123678-HxCDF	57117-44-9	0.422 JB	0.159	10.7	1
10915	123789-HxCDF	72918-21-9	0.459 JB	0.146	10.7	1
10915	234678-HxCDF	60851-34-5	0.352 JBQ	0.136	10.7	1
10915	1234678-HpCDF	67562-39-4	0.483 JB	0.133	10.7	1
10915	1234789-HpCDF	55673-89-7	0.420 JBQ	0.152	10.7	1
10915	OCDF	39001-02-0	1.17 JB	0.224	21.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	61	25 - 181
13C12-123478-HxCDD	58	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	59	28 - 130
13C12-1234678-HpCDD	60	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	64	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	59	26 - 123
13C12-234678-HxCDF	64	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	63	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB1-051712 Water  
SSFL Phase 3 Soil Sampling  
EB1

LLI Sample # WW 6657014  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:00

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Submitted: 05/18/2012 09:25

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514EB SDG#: PH007-04EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans 10-15 day	EPA 1613B	1	12146001	05/29/2012 16:01	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12146001	05/27/2012 10:00	Ginelle L Haines	1

**Sample Description:** SL-735-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-735-SA5C-SB

LLI Sample # SW 6657015  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 08:53

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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735-4 SDG#: PH007-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-735-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-735-SA5C-SB

LLI Sample # SW 6657015  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 08:53

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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735-4 SDG#: PH007-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0220 JBQ	0.0114	1.07	1
11031	12378-PeCDD	40321-76-4	0.0547 JB	0.0261	5.35	1
11031	123478-HxCDD	39227-28-6	0.0200 JBQ	0.0189	5.35	1
11031	123678-HxCDD	57653-85-7	0.237 JBQ	0.0187	5.35	1
11031	123789-HxCDD	19408-74-3	0.297 JB	0.0183	5.35	1
11031	1234678-HpCDD	35822-46-9	0.996 JBQ	0.0175	5.35	1
11031	OCDD	3268-87-9	11.1 B	0.0394	10.7	1
11031	2378-TCDF	51207-31-9	0.0122 JBQ	0.0121	1.07	1
11031	12378-PeCDF	57117-41-6	0.0848 JB	0.0121	5.35	1
11031	23478-PeCDF	57117-31-4	0.0695 JB	0.0134	5.35	1
11031	123478-HxCDF	70648-26-9	0.0532 JB	0.0127	5.35	1
11031	123678-HxCDF	57117-44-9	0.0305 JBQ	0.0101	5.35	1
11031	123789-HxCDF	72918-21-9	0.203 JB	0.0139	5.35	1
11031	234678-HxCDF	60851-34-5	0.0549 JBQ	0.0113	5.35	1
11031	1234678-HpCDF	67562-39-4	0.149 JB	0.00645	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0609 JBQ	0.0136	5.35	1
11031	OCDF	39001-02-0	0.370 JB	0.0298	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	39	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-735-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-735-SA5C-SB

LLI Sample # SW 6657015  
 LLI Group # 1309905  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 08:53

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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735-4 SDG#: PH007-05

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-735-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-735-SA5C-SB

LLI Sample # SW 6657015  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 08:53

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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735-4 SDG#: PH007-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 04:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401A	05/24/2012 12:02	William C Schwebel	1

**Sample Description:** SL-735-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-735-SA5C-SB

LLI Sample # SW 6657016  
 LLI Group # 1309905  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 08:58

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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735-9 SDG#: PH007-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-735-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-735-SA5C-SB

LLI Sample # SW 6657016  
LLI Group # 1309905  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/17/2012 08:58

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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735-9 SDG#: PH007-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0130 U	0.0130	1.10	1
11031	12378-PeCDD	40321-76-4	0.0589 JBQ	0.0269	5.49	1
11031	123478-HxCDD	39227-28-6	0.0285 JBQ	0.0211	5.49	1
11031	123678-HxCDD	57653-85-7	0.105 JBQ	0.0217	5.49	1
11031	123789-HxCDD	19408-74-3	0.115 JB	0.0203	5.49	1
11031	1234678-HpCDD	35822-46-9	1.34 JB	0.0207	5.49	1
11031	OCDD	3268-87-9	11.2 B	0.0376	11.0	1
11031	2378-TCDF	51207-31-9	0.0186 JB	0.0139	1.10	1
11031	12378-PeCDF	57117-41-6	0.0450 JBQ	0.0124	5.49	1
11031	23478-PeCDF	57117-31-4	0.119 JBQ	0.0133	5.49	1
11031	123478-HxCDF	70648-26-9	0.0348 JBQ	0.0132	5.49	1
11031	123678-HxCDF	57117-44-9	0.0357 JB	0.0111	5.49	1
11031	123789-HxCDF	72918-21-9	0.0137 U	0.0137	5.49	1
11031	234678-HxCDF	60851-34-5	0.0340 JB	0.0123	5.49	1
11031	1234678-HpCDF	67562-39-4	0.293 JBQ	0.00832	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0595 JBQ	0.0164	5.49	1
11031	OCDF	39001-02-0	0.499 JB	0.0337	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	43	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-735-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-735-SA5C-SB

LLI Sample # SW 6657016  
 LLI Group # 1309905  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 08:58

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

735-9 SDG#: PH007-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-735-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-735-SA5C-SB

LLI Sample # SW 6657016  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 08:58

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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735-9 SDG#: PH007-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 05:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401A	05/24/2012 12:02	William C Schwebel	1

**Sample Description:** SL-737-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-737-SA5C-SB

LLI Sample # SW 6657017  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 10:47

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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737-4 SDG#: PH007-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-737-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-737-SA5C-SB

LLI Sample # SW 6657017  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 10:47

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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737-4 SDG#: PH007-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0150 U	0.0150	1.10	1
11031	12378-PeCDD	40321-76-4	0.0367 JBQ	0.0332	5.49	1
11031	123478-HxCDD	39227-28-6	0.0570 JBQ	0.0211	5.49	1
11031	123678-HxCDD	57653-85-7	0.164 JBQ	0.0217	5.49	1
11031	123789-HxCDD	19408-74-3	0.285 JB	0.0209	5.49	1
11031	1234678-HpCDD	35822-46-9	1.23 JBQ	0.0215	5.49	1
11031	OCDD	3268-87-9	10.9 JB	0.0406	11.0	1
11031	2378-TCDF	51207-31-9	0.0214 JBQ	0.0153	1.10	1
11031	12378-PeCDF	57117-41-6	0.0808 JBQ	0.0152	5.49	1
11031	23478-PeCDF	57117-31-4	0.0662 JBQ	0.0166	5.49	1
11031	123478-HxCDF	70648-26-9	0.0301 JB	0.0158	5.49	1
11031	123678-HxCDF	57117-44-9	0.0357 JBQ	0.0135	5.49	1
11031	123789-HxCDF	72918-21-9	0.175 JB	0.0177	5.49	1
11031	234678-HxCDF	60851-34-5	0.0261 JB	0.0146	5.49	1
11031	1234678-HpCDF	67562-39-4	0.212 JBQ	0.00801	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0397 JB	0.0162	5.49	1
11031	OCDF	39001-02-0	0.356 JB	0.0350	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	43	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-737-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-737-SA5C-SB

LLI Sample # SW 6657017  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 10:47

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

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737-4 SDG#: PH007-07

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-737-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-737-SA5C-SB

LLI Sample # SW 6657017  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 10:47

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

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Fairfax VA 22030

737-4 SDG#: PH007-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 05:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401A	05/24/2012 12:02	William C Schwebel	1

**Sample Description:** SL-737-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-737-SA5C-SB

LLI Sample # SW 6657018  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 10:51

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

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737-9 SDG#: PH007-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-737-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-737-SA5C-SB

LLI Sample # SW 6657018  
LLI Group # 1309905  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/17/2012 10:51

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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737-9 SDG#: PH007-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>		
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>		
11031	2378-TCDD	1746-01-6	0.0115	U	0.0115	1.05	1
11031	12378-PeCDD	40321-76-4	0.0840	JB	0.0254	5.25	1
11031	123478-HxCDD	39227-28-6	0.0932	JB	0.0224	5.25	1
11031	123678-HxCDD	57653-85-7	0.241	JBQ	0.0239	5.25	1
11031	123789-HxCDD	19408-74-3	0.158	JBQ	0.0228	5.25	1
11031	1234678-HpCDD	35822-46-9	9.81	B	0.0360	5.25	1
11031	OCDD	3268-87-9	92.8	B	0.0489	10.5	1
11031	2378-TCDF	51207-31-9	0.0183	U	0.0183	1.05	1
11031	12378-PeCDF	57117-41-6	0.102	JB	0.0142	5.25	1
11031	23478-PeCDF	57117-31-4	0.0844	JB	0.0141	5.25	1
11031	123478-HxCDF	70648-26-9	0.142	JBQ	0.0141	5.25	1
11031	123678-HxCDF	57117-44-9	0.0754	JBQ	0.0122	5.25	1
11031	123789-HxCDF	72918-21-9	0.0511	JB	0.0160	5.25	1
11031	234678-HxCDF	60851-34-5	0.0800	JB	0.0135	5.25	1
11031	1234678-HpCDF	67562-39-4	1.57	JB	0.0121	5.25	1
11031	1234789-HpCDF	55673-89-7	0.120	JBQ	0.0207	5.25	1
11031	OCDF	39001-02-0	5.81	JB	0.0307	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	87	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	48	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-737-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-737-SA5C-SB

**LLI Sample #** SW 6657018  
**LLI Group #** 1309905  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 10:51

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

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737-9 SDG#: PH007-08

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-737-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-737-SA5C-SB

LLI Sample # SW 6657018  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 10:51

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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737-9 SDG#: PH007-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 06:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401B	05/24/2012 12:02	William C Schwebel	1

Sample Description: **EB2-051712 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB2**

LLI Sample # **WW 6657019**  
 LLI Group # **1309905**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 05/17/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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737EB SDG#: PH007-09EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.281 U	0.281	2.17	1
10915	12378-PeCDD	40321-76-4	0.790 JB	0.274	10.8	1
10915	123478-HxCDD	39227-28-6	0.356 JB	0.201	10.8	1
10915	123678-HxCDD	57653-85-7	0.838 J	0.209	10.8	1
10915	123789-HxCDD	19408-74-3	0.976 JB	0.207	10.8	1
10915	1234678-HpCDD	35822-46-9	4.62 JBQ	0.317	10.8	1
10915	OCDD	3268-87-9	7.39 JB	0.287	21.7	1
10915	2378-TCDF	51207-31-9	0.375 J	0.179	2.17	1
10915	12378-PeCDF	57117-41-6	0.498 JBQ	0.163	10.8	1
10915	23478-PeCDF	57117-31-4	0.764 JB	0.134	10.8	1
10915	123478-HxCDF	70648-26-9	0.613 JBQ	0.130	10.8	1
10915	123678-HxCDF	57117-44-9	0.415 JB	0.129	10.8	1
10915	123789-HxCDF	72918-21-9	0.467 JBQ	0.127	10.8	1
10915	234678-HxCDF	60851-34-5	0.610 JBQ	0.115	10.8	1
10915	1234678-HpCDF	67562-39-4	0.950 JB	0.128	10.8	1
10915	1234789-HpCDF	55673-89-7	0.652 JB	0.145	10.8	1
10915	OCDF	39001-02-0	1.34 JB	0.217	21.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	53	25 - 164
13C12-12378-PeCDD	51	25 - 181
13C12-123478-HxCDD	51	32 - 141
13C12-123678-HxCDD	50	28 - 130
13C12-123789-HxCDD	50	28 - 130
13C12-1234678-HpCDD	46	23 - 140
13C12-OCDD	42	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	53	24 - 185
13C12-23478-PeCDF	56	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	48	26 - 123
13C12-234678-HxCDF	53	28 - 136
13C12-123789-HxCDF	53	29 - 147
13C12-1234678-HpCDF	45	28 - 143
13C12-1234789-HpCDF	45	26 - 138
13C12-OCDF	42	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB2-051712 Water  
SSFL Phase 3 Soil Sampling  
EB2

LLI Sample # WW 6657019  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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737EB SDG#: PH007-09EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans 10-15 day	EPA 1613B	1	12152002	06/01/2012 23:57	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	12152002	05/31/2012 10:50	Ginelle L Haines	1

**Sample Description:** SL-686-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-686-SA5C-SB

LLI Sample # SW 6657020  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 13:56

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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686-4 SDG#: PH007-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-686-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-686-SA5C-SB

LLI Sample # SW 6657020  
LLI Group # 1309905  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/17/2012 13:56

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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Fairfax VA 22030

686-4 SDG#: PH007-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0365 JB	0.0132	1.10	1
11031	12378-PeCDD	40321-76-4	0.143 JBQ	0.0322	5.51	1
11031	123478-HxCDD	39227-28-6	0.0986 JBQ	0.0197	5.51	1
11031	123678-HxCDD	57653-85-7	0.106 JBQ	0.0195	5.51	1
11031	123789-HxCDD	19408-74-3	0.114 JBQ	0.0185	5.51	1
11031	1234678-HpCDD	35822-46-9	1.05 JB	0.0208	5.51	1
11031	OCDD	3268-87-9	10.7 JB	0.0400	11.0	1
11031	2378-TCDF	51207-31-9	0.0388 JB	0.0138	1.10	1
11031	12378-PeCDF	57117-41-6	0.154 JBQ	0.0156	5.51	1
11031	23478-PeCDF	57117-31-4	0.170 JB	0.0176	5.51	1
11031	123478-HxCDF	70648-26-9	0.0776 JB	0.0165	5.51	1
11031	123678-HxCDF	57117-44-9	0.0648 JBQ	0.0130	5.51	1
11031	123789-HxCDF	72918-21-9	0.0732 JBQ	0.0158	5.51	1
11031	234678-HxCDF	60851-34-5	0.0597 JBQ	0.0121	5.51	1
11031	1234678-HpCDF	67562-39-4	0.212 JB	0.0103	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0579 JBQ	0.0175	5.51	1
11031	OCDF	39001-02-0	0.287 JBQ	0.0361	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	60	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	46	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-686-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-686-SA5C-SB

LLI Sample # SW 6657020  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 13:56

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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Fairfax VA 22030

686-4 SDG#: PH007-10

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-686-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-686-SA5C-SB

LLI Sample # SW 6657020  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 13:56

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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686-4 SDG#: PH007-10

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 07:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401B	05/24/2012 12:02	William C Schwebel	1

**Sample Description:** SL-686-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-686-SA5C-SB

LLI Sample # SW 6657021  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:00

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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686-9 SDG#: PH007-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-686-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-686-SA5C-SB

LLI Sample # SW 6657021  
LLI Group # 1309905  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/17/2012 14:00

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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686-9 SDG#: PH007-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>						
11031	2378-TCDD	1746-01-6	0.103 JBQ	0.0142	1.09	1
11031	12378-PeCDD	40321-76-4	0.191 JBQ	0.0383	5.46	1
11031	123478-HxCDD	39227-28-6	0.112 JBQ	0.0191	5.46	1
11031	123678-HxCDD	57653-85-7	0.138 JBQ	0.0194	5.46	1
11031	123789-HxCDD	19408-74-3	0.152 JBQ	0.0203	5.46	1
11031	1234678-HpCDD	35822-46-9	0.621 JBQ	0.0162	5.46	1
11031	OCDD	3268-87-9	4.41 JB	0.0417	10.9	1
11031	2378-TCDF	51207-31-9	0.0865 JB	0.0148	1.09	1
11031	12378-PeCDF	57117-41-6	0.289 JBQ	0.0144	5.46	1
11031	23478-PeCDF	57117-31-4	0.264 JBQ	0.0161	5.46	1
11031	123478-HxCDF	70648-26-9	0.201 JBQ	0.0159	5.46	1
11031	123678-HxCDF	57117-44-9	0.204 JB	0.0135	5.46	1
11031	123789-HxCDF	72918-21-9	0.175 JBQ	0.0160	5.46	1
11031	234678-HxCDF	60851-34-5	0.164 JBQ	0.0149	5.46	1
11031	1234678-HpCDF	67562-39-4	0.182 JBQ	0.00706	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0461 JB	0.0151	5.46	1
11031	OCDF	39001-02-0	0.203 JB	0.0350	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	43	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-686-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-686-SA5C-SB

LLI Sample # SW 6657021  
 LLI Group # 1309905  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:00

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

686-9 SDG#: PH007-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-686-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-686-SA5C-SB

LLI Sample # SW 6657021  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:00

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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686-9 SDG#: PH007-11

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 11:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401B	05/24/2012 12:02	William C Schwebel	1

**Sample Description:** SL-738-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-738-SA5C-SB

LLI Sample # SW 6657022  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 12:50

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

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738-0 SDG#: PH007-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	6.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-738-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-738-SA5C-SB

LLI Sample # SW 6657022  
LLI Group # 1309905  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/17/2012 12:50

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

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738-0 SDG#: PH007-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0147	U	0.0147	1.04	1
11031	12378-PeCDD	40321-76-4	0.143	JB	0.0357	5.18	1
11031	123478-HxCDD	39227-28-6	0.158	JB	0.0400	5.18	1
11031	123678-HxCDD	57653-85-7	0.587	JB	0.0396	5.18	1
11031	123789-HxCDD	19408-74-3	0.431	JBQ	0.0371	5.18	1
11031	1234678-HpCDD	35822-46-9	12.6	B	0.0494	5.18	1
11031	OCDD	3268-87-9	142	B	0.0802	10.4	1
11031	2378-TCDF	51207-31-9	0.124	JBQ	0.0501	1.04	1
11031	12378-PeCDF	57117-41-6	1.33	JB	0.0295	5.18	1
11031	23478-PeCDF	57117-31-4	1.15	JB	0.0286	5.18	1
11031	123478-HxCDF	70648-26-9	0.297	JB	0.0233	5.18	1
11031	123678-HxCDF	57117-44-9	0.347	JBQ	0.0213	5.18	1
11031	123789-HxCDF	72918-21-9	0.284	JB	0.0255	5.18	1
11031	234678-HxCDF	60851-34-5	0.574	JB	0.0213	5.18	1
11031	1234678-HpCDF	67562-39-4	2.25	JB	0.0156	5.18	1
11031	1234789-HpCDF	55673-89-7	0.219	JB	0.0216	5.18	1
11031	OCDF	39001-02-0	3.52	JB	0.0323	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	53	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-738-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-738-SA5C-SB

LLI Sample # SW 6657022  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 12:50

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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738-0 SDG#: PH007-12

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-738-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-738-SA5C-SB

LLI Sample # SW 6657022  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 12:50

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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738-0 SDG#: PH007-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 12:49	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401B	05/24/2012 12:02	William C Schwebel	1

**Sample Description:** SL-738-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-738-SA5C-SB

LLI Sample # SW 6657023  
 LLI Group # 1309905  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 13:01

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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738-4 SDG#: PH007-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	11.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-738-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-738-SA5C-SB

LLI Sample # SW 6657023  
LLI Group # 1309905  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/17/2012 13:01

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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738-4 SDG#: PH007-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0107 U	0.0107	1.09	1
11031	12378-PeCDD	40321-76-4	0.0620 JB	0.0254	5.46	1
11031	123478-HxCDD	39227-28-6	0.0180 U	0.0180	5.46	1
11031	123678-HxCDD	57653-85-7	0.172 JB	0.0189	5.46	1
11031	123789-HxCDD	19408-74-3	0.226 JBQ	0.0186	5.46	1
11031	1234678-HpCDD	35822-46-9	0.403 JB	0.0115	5.46	1
11031	OCDD	3268-87-9	1.07 JBQ	0.0357	10.9	1
11031	2378-TCDF	51207-31-9	0.0179 JBQ	0.00848	1.09	1
11031	12378-PeCDF	57117-41-6	0.0298 JB	0.0125	5.46	1
11031	23478-PeCDF	57117-31-4	0.0963 JBQ	0.0130	5.46	1
11031	123478-HxCDF	70648-26-9	0.0259 JBQ	0.00889	5.46	1
11031	123678-HxCDF	57117-44-9	0.0311 JBQ	0.00810	5.46	1
11031	123789-HxCDF	72918-21-9	0.190 JB	0.00904	5.46	1
11031	234678-HxCDF	60851-34-5	0.0371 JBQ	0.00843	5.46	1
11031	1234678-HpCDF	67562-39-4	0.0750 JB	0.00928	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0272 JB	0.0135	5.46	1
11031	OCDF	39001-02-0	0.123 JB	0.0273	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	51	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-738-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-738-SA5C-SB

LLI Sample # SW 6657023  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 13:01

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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738-4 SDG#: PH007-13

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-738-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-738-SA5C-SB

LLI Sample # SW 6657023  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 13:01

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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738-4 SDG#: PH007-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 13:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401B	05/24/2012 12:02	William C Schwebel	1

**Sample Description:** SL-738-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-738-SA5C-SB

LLI Sample # SW 6657024  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 13:08

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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738-9 SDG#: PH007-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-738-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-738-SA5C-SB

LLI Sample # SW 6657024  
LLI Group # 1309905  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/17/2012 13:08

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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738-9 SDG#: PH007-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0117 U	0.0117	1.13	1
11031	12378-PeCDD	40321-76-4	0.0434 JB	0.0282	5.65	1
11031	123478-HxCDD	39227-28-6	0.0167 U	0.0167	5.65	1
11031	123678-HxCDD	57653-85-7	0.0735 JB	0.0164	5.65	1
11031	123789-HxCDD	19408-74-3	0.159 JBQ	0.0164	5.65	1
11031	1234678-HpCDD	35822-46-9	0.405 JBQ	0.0150	5.65	1
11031	OCDD	3268-87-9	1.53 JB	0.0378	11.3	1
11031	2378-TCDF	51207-31-9	0.0107 U	0.0107	1.13	1
11031	12378-PeCDF	57117-41-6	0.0138 U	0.0138	5.65	1
11031	23478-PeCDF	57117-31-4	0.0530 JBQ	0.0143	5.65	1
11031	123478-HxCDF	70648-26-9	0.0175 JBQ	0.0115	5.65	1
11031	123678-HxCDF	57117-44-9	0.0426 JB	0.0105	5.65	1
11031	123789-HxCDF	72918-21-9	0.0319 JBQ	0.0136	5.65	1
11031	234678-HxCDF	60851-34-5	0.0564 JBQ	0.0109	5.65	1
11031	1234678-HpCDF	67562-39-4	0.122 JBQ	0.00926	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0352 JB	0.0152	5.65	1
11031	OCDF	39001-02-0	0.130 JBQ	0.0357	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	68	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	47	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-738-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-738-SA5C-SB

**LLI Sample #** SW 6657024  
**LLI Group #** 1309905  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 13:08

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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738-9 SDG#: PH007-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-738-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-738-SA5C-SB

LLI Sample # SW 6657024  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 13:08

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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738-9 SDG#: PH007-14

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 14:42	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401B	05/24/2012 12:02	William C Schwebel	1

**Sample Description:** SL-739-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-739-SA5C-SB

LLI Sample # SW 6657025  
 LLI Group # 1309905  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Fairfax VA 22030

739-0 SDG#: PH007-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-739-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-739-SA5C-SB

LLI Sample # SW 6657025  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

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Reported: 06/04/2012 16:10

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739-0 SDG#: PH007-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0274 JBQ	0.0122	1.07	1
11031	12378-PeCDD	40321-76-4	0.0275 JBQ	0.0236	5.36	1
11031	123478-HxCDD	39227-28-6	0.0188 U	0.0188	5.36	1
11031	123678-HxCDD	57653-85-7	0.136 JBQ	0.0204	5.36	1
11031	123789-HxCDD	19408-74-3	0.160 JB	0.0194	5.36	1
11031	1234678-HpCDD	35822-46-9	0.528 JB	0.0197	5.36	1
11031	OCDD	3268-87-9	6.71 JB	0.0337	10.7	1
11031	2378-TCDF	51207-31-9	0.0405 JBQ	0.0174	1.07	1
11031	12378-PeCDF	57117-41-6	0.120 JBQ	0.0133	5.36	1
11031	23478-PeCDF	57117-31-4	0.124 JB	0.0141	5.36	1
11031	123478-HxCDF	70648-26-9	0.0575 JBQ	0.0119	5.36	1
11031	123678-HxCDF	57117-44-9	0.0353 JBQ	0.0106	5.36	1
11031	123789-HxCDF	72918-21-9	0.168 JB	0.0143	5.36	1
11031	234678-HxCDF	60851-34-5	0.0529 JBQ	0.0120	5.36	1
11031	1234678-HpCDF	67562-39-4	0.144 JB	0.00795	5.36	1
11031	1234789-HpCDF	55673-89-7	0.0308 JB	0.0133	5.36	1
11031	OCDF	39001-02-0	0.259 JBQ	0.0312	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	90	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	46	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-739-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-739-SA5C-SB

LLI Sample # SW 6657025  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

739-0 SDG#: PH007-15

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-739-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-739-SA5C-SB

LLI Sample # SW 6657025  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:45

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

739-0 SDG#: PH007-15

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 15:39	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401B	05/24/2012 12:02	William C Schwebel	1

**Sample Description:** SL-739-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-739-SA5C-SB

LLI Sample # SW 6657026  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:50

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

739-4 SDG#: PH007-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-739-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-739-SA5C-SB

LLI Sample # SW 6657026  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:50

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

739-4 SDG#: PH007-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0120 U	0.0120	1.11	1
11031	12378-PeCDD	40321-76-4	0.0464 JBQ	0.0300	5.54	1
11031	123478-HxCDD	39227-28-6	0.0204 U	0.0204	5.54	1
11031	123678-HxCDD	57653-85-7	0.174 JB	0.0203	5.54	1
11031	123789-HxCDD	19408-74-3	0.239 JBQ	0.0204	5.54	1
11031	1234678-HpCDD	35822-46-9	0.528 JB	0.0136	5.54	1
11031	OCDD	3268-87-9	2.70 JB	0.0349	11.1	1
11031	2378-TCDF	51207-31-9	0.0140 U	0.0140	1.11	1
11031	12378-PeCDF	57117-41-6	0.0547 JBQ	0.0147	5.54	1
11031	23478-PeCDF	57117-31-4	0.0790 JB	0.0139	5.54	1
11031	123478-HxCDF	70648-26-9	0.0357 JBQ	0.0121	5.54	1
11031	123678-HxCDF	57117-44-9	0.0343 JBQ	0.0116	5.54	1
11031	123789-HxCDF	72918-21-9	0.206 JB	0.0131	5.54	1
11031	234678-HxCDF	60851-34-5	0.0428 JB	0.0111	5.54	1
11031	1234678-HpCDF	67562-39-4	0.129 JBQ	0.0103	5.54	1
11031	1234789-HpCDF	55673-89-7	0.0146 U	0.0146	5.54	1
11031	OCDF	39001-02-0	0.161 JB	0.0262	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	53	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-739-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-739-SA5C-SB

LLI Sample # SW 6657026  
 LLI Group # 1309905  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:50

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

739-4 SDG#: PH007-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-739-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-739-SA5C-SB

LLI Sample # SW 6657026  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:50

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

739-4 SDG#: PH007-16

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 16:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401B	05/24/2012 12:02	William C Schwebel	1

**Sample Description:** SL-739-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-739-SA5C-SB

LLI Sample # SW 6657027  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:55

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

739-9 SDG#: PH007-17\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-739-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-739-SA5C-SB

LLI Sample # SW 6657027  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:55

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

739-9 SDG#: PH007-17\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0214 JB	0.0109	1.07	1
11031	12378-PeCDD	40321-76-4	0.0492 JB	0.0256	5.37	1
11031	123478-HxCDD	39227-28-6	0.0250 JB	0.0169	5.37	1
11031	123678-HxCDD	57653-85-7	0.0604 JB	0.0173	5.37	1
11031	123789-HxCDD	19408-74-3	0.0565 JBQ	0.0175	5.37	1
11031	1234678-HpCDD	35822-46-9	0.552 JB	0.0114	5.37	1
11031	OCDD	3268-87-9	2.17 JB	0.0456	10.7	1
11031	2378-TCDF	51207-31-9	0.0210 JBQ	0.0105	1.07	1
11031	12378-PeCDF	57117-41-6	0.0255 JB	0.0125	5.37	1
11031	23478-PeCDF	57117-31-4	0.0604 JBQ	0.0139	5.37	1
11031	123478-HxCDF	70648-26-9	0.0158 JBQ	0.00940	5.37	1
11031	123678-HxCDF	57117-44-9	0.0275 JBQ	0.00689	5.37	1
11031	123789-HxCDF	72918-21-9	0.0256 JBQ	0.0100	5.37	1
11031	234678-HxCDF	60851-34-5	0.0292 JB	0.00744	5.37	1
11031	1234678-HpCDF	67562-39-4	0.0681 JBQ	0.00730	5.37	1
11031	1234789-HpCDF	55673-89-7	0.0288 JBQ	0.0158	5.37	1
11031	OCDF	39001-02-0	0.122 JB	0.0478	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	54	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	38	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-739-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-739-SA5C-SB

LLI Sample # SW 6657027  
 LLI Group # 1309905  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:55

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

739-9 SDG#: PH007-17\*

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-739-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-739-SA5C-SB

LLI Sample # SW 6657027  
LLI Group # 1309905  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/17/2012 14:55

CDM Federal Programs Corp.

Submitted: 05/18/2012 09:25

3201 Jermantown Road

Reported: 06/04/2012 16:10

Suite 400

Fairfax VA 22030

739-9 SDG#: PH007-17\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12145001	05/26/2012 17:32	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12145001	05/24/2012 12:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12145162401B	05/24/2012 12:02	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/04/12 at 04:10 PM

Group Number: 1309905

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12145162401A Moisture CDM	Sample number(s): 6657011-6657013,6657015-6657017								
					100		80-120		
Batch number: 12145162401B Moisture CDM	Sample number(s): 6657018,6657020-6657027								
					100		80-120		
<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12145001	Sample number(s): 6657011-6657013,6657015-6657018,6657020-6657027								
2378-TCDD	0.0393 J	0.0101	1.00	ng/kg	113		67-158		
12378-PeCDD	0.0770 J	0.0267	5.00	ng/kg	107		70-142		
123478-HxCDD	0.0207 J	0.0149	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0516 J	0.0160	5.00	ng/kg	101		76-134		
123789-HxCDD	0.0151 J	0.0151	5.00	ng/kg	110		64-162		
1234678-HpCDD	0.270 J	0.0154	5.00	ng/kg	108		70-140		
OCDD	0.443 J	0.0355	10.0	ng/kg	98		78-144		
2378-TCDF	0.0141 J	0.00965	1.00	ng/kg	108		75-158		
12378-PeCDF	0.0345 J	0.0131	5.00	ng/kg	105		80-134		
23478-PeCDF	0.0658 J	0.0138	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0190 J	0.0127	5.00	ng/kg	101		72-134		
123678-HxCDF	0.0246 J	0.0104	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0483 J	0.0148	5.00	ng/kg	103		78-130		
234678-HxCDF	0.0512 J	0.0121	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0787 J	0.00651	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0639 J	0.0143	5.00	ng/kg	99		78-138		
OCDF	0.154 J	0.0293	10.0	ng/kg	98		63-170		
Batch number: 12146001	Sample number(s): 6657014								
2378-TCDD	0.742 J	0.290	2.00	pg/l	108		67-158		
12378-PeCDD	0.356 J	0.228	10.0	pg/l	106		70-142		
123478-HxCDD	0.836 J	0.200	10.0	pg/l	101		70-164		
123678-HxCDD	1.22 J	0.217	10.0	pg/l	105		76-134		
123789-HxCDD	1.07 J	0.212	10.0	pg/l	109		64-162		
1234678-HpCDD	5.05 J	0.249	10.0	pg/l	109		70-140		
OCDD	8.17 J	0.319	20.0	pg/l	106		78-144		
2378-TCDF	0.390 J	0.163	2.00	pg/l	97		75-158		
12378-PeCDF	0.502 J	0.166	10.0	pg/l	106		80-134		
23478-PeCDF	0.628 J	0.151	10.0	pg/l	97		68-160		
123478-HxCDF	0.690 J	0.124	10.0	pg/l	104		72-134		
123678-HxCDF	0.641 J	0.125	10.0	pg/l	106		84-130		
123789-HxCDF	0.982 J	0.116	10.0	pg/l	103		78-130		
234678-HxCDF	0.703 J	0.115	10.0	pg/l	100		70-156		
1234678-HpCDF	1.18 J	0.136	10.0	pg/l	102		82-122		
1234789-HpCDF	1.05 J	0.148	10.0	pg/l	104		78-138		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/04/12 at 04:10 PM

Group Number: 1309905

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
OCDF	2.05 J	0.223	20.0	pg/l	108		63-170		
Batch number: 12152002	Sample number(s): 6657019								
2378-TCDD	0.230 U	0.230	2.00	pg/l	98		67-158		
12378-PeCDD	0.435 J	0.212	10.0	pg/l	99		70-142		
123478-HxCDD	0.407 J	0.198	10.0	pg/l	96		70-164		
123678-HxCDD	0.513 J	0.197	10.0	pg/l	97		76-134		
123789-HxCDD	0.518 J	0.188	10.0	pg/l	103		64-162		
1234678-HpCDD	2.88 J	0.214	10.0	pg/l	106		70-140		
OCDD	4.99 J	0.258	20.0	pg/l	105		78-144		
2378-TCDF	0.163 U	0.163	2.00	pg/l	86		75-158		
12378-PeCDF	0.385 J	0.142	10.0	pg/l	97		80-134		
23478-PeCDF	0.694 J	0.124	10.0	pg/l	87		68-160		
123478-HxCDF	0.498 J	0.111	10.0	pg/l	100		72-134		
123678-HxCDF	0.371 J	0.109	10.0	pg/l	101		84-130		
123789-HxCDF	0.475 J	0.0995	10.0	pg/l	99		78-130		
234678-HxCDF	0.280 J	0.104	10.0	pg/l	94		70-156		
1234678-HpCDF	0.753 J	0.107	10.0	pg/l	97		82-122		
1234789-HpCDF	0.606 J	0.114	10.0	pg/l	99		78-138		
OCDF	1.13 J	0.177	20.0	pg/l	105		63-170		

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>	
Batch number: 12145162401A Moisture CDM	Sample number(s): 6657011-6657013,6657015-6657017						BKG: 6657017			
						9.7	9.9	2	20	
Batch number: 12145162401B Moisture CDM	Sample number(s): 6657018,6657020-6657027						BKG: 6657026			
						11.1	11.2	1	20	

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12145001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6657011	70	73	75	85	79	72
6657012	72	78	83	88	82	82
6657013	68	72	78	87	77	74
6657015	70	71	73	86	76	70
6657016	73	78	79	91	81	79
6657017	69	74	80	90	79	76
6657018	77	78	87	93	84	78
6657020	76	80	70	84	87	76
6657021	71	75	79	90	79	82

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/04/12 at 04:10 PM

Group Number: 1309905

### Surrogate Quality Control

6657022	79	81	89	91	86	83
6657023	80	84	85	89	87	87
6657024	75	78	84	88	81	73
6657025	74	79	83	90	82	74
6657026	75	82	84	84	83	78
6657027	73	77	67	86	79	64
Blank	73	71	76	90	78	68
OPR	65	66	71	82	72	63
<hr/>						
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6657011	86	53	41	68	76	75
6657012	88	61	49	71	78	75
6657013	95	53	42	68	75	74
6657015	94	50	39	68	76	74
6657016	99	56	43	73	80	76
6657017	98	55	43	70	77	75
6657018	92	60	48	73	82	77
6657020	90	60	46	77	82	79
6657021	100	55	43	71	78	77
6657022	80	65	53	73	80	77
6657023	84	65	51	76	80	78
6657024	83	58	47	72	77	74
6657025	89	59	46	73	80	76
6657026	76	64	53	73	75	75
6657027	93	49	38	76	81	79
Blank	99	50	41	73	84	79
OPR	92	48	36	66	75	73
<hr/>						
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6657011	76	63	51	75	81	
6657012	76	70	57	78	85	
6657013	75	70	54	71	83	
6657015	75	67	54	74	84	
6657016	78	73	56	79	91	
6657017	76	73	58	74	87	
6657018	78	71	57	84	89	
6657020	83	77	60	82	94	
6657021	77	67	56	75	86	
6657022	79	68	55	87	87	
6657023	79	72	54	87	89	
6657024	76	68	53	82	86	
6657025	78	70	55	82	91	
6657026	75	67	54	83	84	
6657027	80	72	54	74	92	
Blank	82	69	58	71	82	
OPR	75	63	52	66	76	
<hr/>						
Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10b. Dioxins/Furans 10-15 day  
Batch number: 12146001

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/04/12 at 04:10 PM

Group Number: 1309905

### Surrogate Quality Control

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6657014	58	67	60	59	64	66
Blank	56	59	54	53	55	63
OPR	79	87	80	78	82	85
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6657014	63	62	64	61	58	59
Blank	53	52	49	55	53	51
OPR	73	68	59	79	76	72
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6657014	59	60	64	64	64	
Blank	52	51	48	63	59	
OPR	75	67	62	85	85	
Limits:	28-130	23-140	17-157	24-169	24-185	
Analysis Name: 10b. Dioxins/Furans 10-15 day						
Batch number: 12152002						
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6657019	53	56	48	48	53	53
Blank	76	78	76	75	79	89
OPR	73	74	69	68	72	71
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6657019	45	45	42	51	51	50
Blank	72	72	68	74	77	78
OPR	64	64	58	70	71	69
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6657019	50	46	42	59	53	
Blank	78	74	70	79	76	
OPR	70	64	59	75	71	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct# 13013 Cup# 1309905

sample# 6657011-27  
**SSFL Phase 3 Chain of Custody**

CDM Smith

No: 20120517-02

Date Shipped: 5/17/2012

Contact Name: Pam Hartman

Cooler #:

Carrier Name: FedEx

Contact Phone: (818)466-8007

Lab:

Landcaster

Airbill No: 793579665707

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Other Analysis/Notes
SL-513-SA5C-SB-9.0-10.0	5/14/12 10:30	SO	None	1 - SS-Sieve	10 day	
SL-514-SA5C-SB-4.0-5.0	5/14/12 11:20	SO	None	1 - SS-Sieve	10 day	
SL-514-SA5C-SB-9.0-10.0	5/14/12 12:25	SO	None	1 - SS-Sieve	10 day	
SL-695-SA5C-SB-4.0-5.0	5/16/12 08:55	SO	None	1 - SS-Sieve	10 day	
SL-695-SA5C-SB-9.0-10.0	5/16/12 09:56	SO	None	1 - SS-Sieve	10 day	
EB1-051712	5/17/12 14:00	WQ	None	2 - 1 L Amber	10 day	
SL-735-SA5C-SB-4.0-5.0	5/17/12 08:53	SO	None	1 - 4 oz glass	10 day	
SL-735-SA5C-SB-9.0-10.0	5/17/12 08:58	SO	None	1 - 4 oz glass	10 day	
SL-737-SA5C-SB-4.0-5.0	5/17/12 10:47	SO	None	1 - 4 oz glass	10 day	
SL-737-SA5C-SB-9.0-10.0	5/17/12 10:51	SO	None	1 - 4 oz glass	10 day	
EB2-051712	5/17/12 14:45	WQ	None	2 - 1 L Amber	10 day	
SL-686-SA5C-SB-4.0-5.0	5/17/12 13:56	SO	None	1 - 4 oz glass	10 day	
SL-686-SA5C-SB-9.0-10.0	5/17/12 14:00	SO	None	1 - 4 oz glass	10 day	
SL-738-SA5C-SB-0.0-0.5	5/17/12 12:50	SO	None	1 - 4 oz glass	10 day	
SL-738-SA5C-SB-4.0-5.0	5/17/12 13:01	SO	None	1 - 4 oz glass	10 day	
SL-738-SA5C-SB-9.0-10.0	5/17/12 13:08	SO	None	1 - 4 oz glass	10 day	
SL-739-SA5C-SB-0.0-0.5	5/17/12 14:45	SO	None	1 - 4 oz glass	10 day	
SL-739-SA5C-SB-4.0-5.0	5/17/12 14:50	SO	None	1 - 4 oz glass	10 day	
SL-739-SA5C-SB-9.0-10.0	5/17/12 14:55	SO	None	1 - 4 oz glass	10 day	

Special Instructions: **SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	5/17/12									
									<i>[Signature]</i>	5/18/12	0925

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 06, 2012

Project: SSFL Phase 3 Sampling

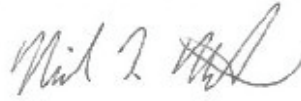
Submittal Date: 05/24/2012  
Group Number: 1311343  
SDG: PT007  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-730-SA5C-SB-0.0-0.5 Soil  
SL-730-SA5C-SB-4.0-5.0 Soil  
SL-730-SA5C-SB-9.0-10.0 Soil  
SL-731-SA5C-SB-0.0-0.5 Soil  
SL-731-SA5C-SB-4.0-5.0 Soil  
SL-731-SA5C-SB-9.0-10.0 Soil  
SL-732-SA5C-SB-5.0-6.0 Soil  
SL-732-SA5C-SB-10.5-11.5 SoilLancaster Labs (LLI) #6665286  
6665287  
6665288  
6665289  
6665290  
6665291  
6665292  
6665293

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
1 COPY TO      Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-730-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-730-SA5C-SB

LLI Sample # SW 6665286  
LLI Group # 1311343  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 08:13

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/06/2012 08:14

Suite 400

Fairfax VA 22030

73000 SDG#: PT007-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,400	U 1,400	3,400	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121500006A	05/31/2012 17:35	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121500006A	05/29/2012 14:30	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12156162403A	06/04/2012 11:33	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-730-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-730-SA5C-SB

LLI Sample # SW 6665287  
LLI Group # 1311343  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 08:19

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/06/2012 08:14

Suite 400

Fairfax VA 22030

73040 SDG#: PT007-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,600	J 1,400	3,400	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	11.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121500006A	05/31/2012 18:13	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121500006A	05/29/2012 14:30	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12156162403A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-730-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-730-SA5C-SB

LLI Sample # SW 6665288  
LLI Group # 1311343  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 08:23

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/06/2012 08:14

Suite 400

Fairfax VA 22030

73090 SDG#: PT007-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	SW-846 8315A		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	3,600	1,400	3,500	1
<b>Wet Chemistry</b>						
	EPA 160.3 modified		%	%	%	
11624	Moisture Content by 160.3	n.a.	13.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121500006A	05/31/2012 18:22	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121500006A	05/29/2012 14:30	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12156162403A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-731-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-731-SA5C-SB

LLI Sample # SW 6665289  
LLI Group # 1311343  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 10:48

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/06/2012 08:14

Suite 400

Fairfax VA 22030

73100 SDG#: PT007-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	3,400	1,300	3,300	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	8.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121500006A	05/31/2012 18:32	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121500006A	05/29/2012 14:30	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12157162401A	06/05/2012 11:40	William C Schwebel	1

**Sample Description:** SL-731-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-731-SA5C-SB

LLI Sample # SW 6665290  
LLI Group # 1311343  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 10:54

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/06/2012 08:14

Suite 400

Fairfax VA 22030

73140 SDG#: PT007-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	13,000	1,400	3,500	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	13.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121500006A	05/31/2012 18:41	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121500006A	05/29/2012 14:30	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12156162403A	06/04/2012 11:33	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-731-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-731-SA5C-SB

LLI Sample # SW 6665291  
LLI Group # 1311343  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 10:57

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/06/2012 08:14

Suite 400

Fairfax VA 22030

73190 SDG#: PT007-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	7,900	1,400	3,500	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	13.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121500006A	05/31/2012 18:51	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121500006A	05/29/2012 14:30	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12156162403A	06/04/2012 11:33	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-732-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-732-SA5C-SB

LLI Sample # SW 6665292  
LLI Group # 1311343  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 13:25

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/06/2012 08:14

Suite 400

Fairfax VA 22030

73250 SDG#: PT007-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,400	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	10.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121500006A	05/31/2012 19:00	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121500006A	05/29/2012 14:30	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12156162403A	06/04/2012 11:33	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-732-SA5C-SB-10.5-11.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-732-SA5C-SB

LLI Sample # SW 6665293  
LLI Group # 1311343  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 13:30

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/06/2012 08:14

Suite 400

Fairfax VA 22030

73210 SDG#: PT007-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	6,000	1,300	3,200	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	6.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121500006A	05/31/2012 19:10	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121500006A	05/29/2012 14:30	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12156162403A	06/04/2012 11:33	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/06/12 at 08:14 AM

Group Number: 1311343

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121500006A 20a Formaldehyde 8315A	Sample number(s): 6665286-6665293 1,200 U	1,200.	3,000	ug/kg	96		80-126		
Batch number: 12156162403A Moisture Content by 160.3	Sample number(s): 6665286-6665288,6665290-6665293				100		80-120		
Batch number: 12157162401A Moisture Content by 160.3	Sample number(s): 6665289				100		80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121500006A 20a Formaldehyde 8315A	Sample number(s): 6665286-6665293 UNSPK: 6665286	96	95	80-120	0	50			
Batch number: 12156162403A Moisture Content by 160.3	Sample number(s): 6665286-6665288,6665290-6665293					BKG: 6665287 11.8	11.8	0	20
Batch number: 12157162401A Moisture Content by 160.3	Sample number(s): 6665289 BKG: 6665289					8.8	9.0	3	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121500006A  
Butyraldehyde

6665286	98
6665287	93
6665288	87
6665289	96

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/06/12 at 08:14 AM

Group Number: 1311343

### Surrogate Quality Control

6665290	98
6665291	94
6665292	84
6665293	94
Blank	94
LCS	95
MS	95
MSD	95

---

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

13013

1311343

GG65286-93

# SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 5/23/2012

Carrier Name: FedEx

Airbill No:

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No: 20120523-01

Cooler #:

Lab:

Lab Phone:

Lancaster

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Orkanotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-FPH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes		
SL-727-SA5C-SB-0.0-0.5	5/21/12 10:29	SO	None	1 - 4 oz glass	10 day																																		
SL-727-SA5C-SB-4.0-5.0MS	5/21/12 10:32	SO	None	1 - 4 oz glass	10 day																																		MS/MSD
SL-734-SA5C-SB-0.0-0.5	5/21/12 09:29	SO	None	1 - 4 oz glass	10 day																																		
SL-734-SA5C-SB-4.0-5.0	5/21/12 09:33	SO	None	1 - 4 oz glass	10 day																																		
SL-734-SA5C-SB-9.0-10.0	5/21/12 09:38	SO	None	1 - 4 oz glass	10 day																																		
SL-1027-SA5C-SB-4.0-5.0	5/21/12 11:00	SO	None	1 - 4 oz glass	10 day																																		
SL-682-SA5C-SB-0.0-0.5	5/22/12 14:50	SO	None	1 - 4 oz. glass	10 day																																		
SL-682-SA5C-SB-4.0-5.0	5/22/12 14:54	SO	None	1 - 4 oz. glass	10 day																																		
SL-682-SA5C-SB-9.0-10.0	5/22/12 14:58	SO	None	1 - 4 oz. glass	10 day																																		
SL-730-SA5C-SB-0.0-0.5	5/22/12 08:13	SO	None	1 - 4 oz glass	10 day																																		
SL-730-SA5C-SB-4.0-5.0	5/22/12 08:19	SO	None	1 - 4 oz glass	10 day																																		
SL-730-SA5C-SB-9.0-10.0	5/22/12 08:23	SO	None	1 - 4 oz glass	10 day																																		
SL-731-SA5C-SB-0.0-0.5	5/22/12 10:48	SO	None	1 - 4 oz glass	10 day																																		
SL-731-SA5C-SB-4.0-5.0	5/22/12 10:54	SO	None	1 - 4 oz glass	10 day																																		
SL-731-SA5C-SB-9.0-10.0	5/22/12 10:57	SO	None	1 - 4 oz glass	10 day																																		
SL-732-SA5C-SB-5.0-6.0	5/22/12 13:25	SO	None	1 - 4 oz. glass	10 day																																		
SL-732-SA5C-SB-10.5-11.5	5/22/12 13:30	SO	None	1 - 4 oz. glass	10 day																																		
SL-733-SA5C-SB-0.0-0.5	5/22/12 09:29	SO	None	1 - 4 oz. glass	10 day																																		
SL-733-SA5C-SB-4.0-5.0	5/22/12 09:42	SO	None	1 - 4 oz. glass	10 day																																		
SL-733-SA5C-SB-9.0-10.0	5/22/12 09:58	SO	None	1 - 4 oz. glass	10 day																																		
SL-727-SA5C-SB-9.0-10.0	5/21/12 10:36	SO	None	1 - 4 oz glass	10 day																																		
SL-674-SA5C-SB-0.0-0.5	5/23/12 10:59	SO	None	1 - 4 oz glass	10 day																																		
SL-674-SA5C-SB-2.5-3.5	5/23/12 11:02	SO	None	1 - 4 oz glass	10 day																																		
SL-675-SA5C-SB-0.0-0.5	5/23/12 10:26	SO	None	1 - 4 oz glass	10 day																																		
SL-678-SA5C-SB-0.0-0.5	5/23/12 09:42	SO	None	1 - 4 oz glass	10 day																																		
SL-678-SA5C-SB-2.5-3.5	5/23/12 09:46	SO	None	1 - 4 oz glass	10 day																																		
SL-681-SA5C-SB-4.0-5.0	5/23/12 07:59	SO	None	1 - 4 oz glass	10 day																																		
SL-681-SA5C-SB-7.5-8.5	5/23/12 08:05	SO	None	1 - 4 oz glass	10 day																																		

13013 1311343 6665286-93

# SSFL Phase 3 Chain of Custody

CDM Smith  
 Date Shipped: 5/23/2012  
 Carrier Name: FedEx  
 Airbill No:

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120523-01  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Other Analysis/Notes
						Methyl Mercury 1630 Oranostin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) Perchlorate confirm 6950/6860 pH 9045 (Soil) Perchlorate 314.0/331 PCBs/PCTs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
/						/					
/						/					
/						/					
/						/					
/						/					
/						/					
/						/					
/						/					
/						/					
/						/					

*Josh Davenport* 5/24/12 0945  
*AKO 5/24/12*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 07, 2012

Project: SSFL Phase 3 Sampling

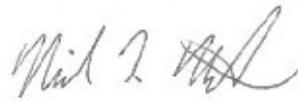
Submittal Date: 05/24/2012  
Group Number: 1311345  
SDG: PH008  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-727-SA5C-SB-0.0-0.5 Soil  
SL-727-SA5C-SB-4.0-5.0 Soil  
SL-727-SA5C-SB-4.0-5.0MS Soil  
SL-727-SA5C-SB-4.0-5.0MSD Soil  
SL-734-SA5C-SB-0.0-0.5 Soil  
SL-734-SA5C-SB-4.0-5.0 Soil  
SL-734-SA5C-SB-9.0-10.0 Soil  
SL-1027-SA5C-SB-4.0-5.0 Soil  
SL-682-SA5C-SB-0.0-0.5 Soil  
SL-682-SA5C-SB-4.0-5.0 Soil  
SL-682-SA5C-SB-9.0-10.0 Soil  
SL-733-SA5C-SB-0.0-0.5 Soil  
SL-733-SA5C-SB-4.0-5.0 Soil  
SL-733-SA5C-SB-9.0-10.0 Soil  
SL-727-SA5C-SB-9.0-10.0 Soil  
SL-674-SA5C-SB-0.0-0.5 Soil  
SL-674-SA5C-SB-2.5-3.5 Soil  
SL-675-SA5C-SB-0.0-0.5 Soil  
SL-678-SA5C-SB-0.0-0.5 Soil  
SL-678-SA5C-SB-2.5-3.5 Soil  
SL-681-SA5C-SB-4.0-5.0 Soil  
SL-681-SA5C-SB-7.5-8.5 SoilLancaster Labs (LLI) #6665297  
6665298  
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The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
ELECTRONIC COPY TO  
CDM Federal Services Program  
Data Package Group

Attn: Todd Burgesser

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-727-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-727-SA5C-SB

LLI Sample # SW 6665297  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:29

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

72700 SDG#: PH008-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-727-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665297  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:29

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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72700 SDG#: PH008-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.00789	U	0.00789	1.03	1
11031	12378-PeCDD	40321-76-4	0.0402	JB	0.0200	5.17	1
11031	123478-HxCDD	39227-28-6	0.0123	U	0.0123	5.17	1
11031	123678-HxCDD	57653-85-7	0.0868	JBQ	0.0127	5.17	1
11031	123789-HxCDD	19408-74-3	0.120	JB	0.0118	5.17	1
11031	1234678-HpCDD	35822-46-9	0.638	JB	0.0104	5.17	1
11031	OCDD	3268-87-9	4.43	JB	0.0196	10.3	1
11031	2378-TCDF	51207-31-9	0.0214	JQ	0.0204	1.03	1
11031	12378-PeCDF	57117-41-6	0.376	JBQ	0.0130	5.17	1
11031	23478-PeCDF	57117-31-4	0.0746	JBQ	0.0124	5.17	1
11031	123478-HxCDF	70648-26-9	0.0316	JB	0.0109	5.17	1
11031	123678-HxCDF	57117-44-9	0.00992	JBQ	0.00971	5.17	1
11031	123789-HxCDF	72918-21-9	0.0900	JBQ	0.0104	5.17	1
11031	234678-HxCDF	60851-34-5	0.0105	U	0.0105	5.17	1
11031	1234678-HpCDF	67562-39-4	0.104	JB	0.00433	5.17	1
11031	1234789-HpCDF	55673-89-7	0.0118	JBQ	0.00725	5.17	1
11031	OCDF	39001-02-0	0.357	JB	0.0140	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	94	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	95	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	66	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-727-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-727-SA5C-SB

LLI Sample # SW 6665297  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:29

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Submitted: 05/24/2012 09:45

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72700 SDG#: PH008-01

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-727-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665297  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:29

CDM Federal Programs Corp.

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72700 SDG#: PH008-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/29/2012 23:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401A	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-727-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665298  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:32

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Submitted: 05/24/2012 09:45

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72740 SDG#: PH008-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-727-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665298  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:32

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72740 SDG#: PH008-02BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>						
11031	2378-TCDD	1746-01-6	0.0121 U	0.0121	1.09	1
11031	12378-PeCDD	40321-76-4	0.0645 JB	0.0209	5.46	1
11031	123478-HxCDD	39227-28-6	0.0143 U	0.0143	5.46	1
11031	123678-HxCDD	57653-85-7	0.457 JB	0.0144	5.46	1
11031	123789-HxCDD	19408-74-3	0.614 JB	0.0138	5.46	1
11031	1234678-HpCDD	35822-46-9	0.433 JB	0.00969	5.46	1
11031	OCDD	3268-87-9	2.10 JB	0.0237	10.9	1
11031	2378-TCDF	51207-31-9	0.0114 U	0.0114	1.09	1
11031	12378-PeCDF	57117-41-6	0.0687 JB	0.0107	5.46	1
11031	23478-PeCDF	57117-31-4	0.0427 JBQ	0.0100	5.46	1
11031	123478-HxCDF	70648-26-9	0.00848 U	0.00848	5.46	1
11031	123678-HxCDF	57117-44-9	0.0569 JB	0.00775	5.46	1
11031	123789-HxCDF	72918-21-9	0.359 JB	0.00755	5.46	1
11031	234678-HxCDF	60851-34-5	0.0156 JBQ	0.00772	5.46	1
11031	1234678-HpCDF	67562-39-4	0.0753 JBQ	0.00579	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0240 JBQ	0.00856	5.46	1
11031	OCDF	39001-02-0	0.116 JBQ	0.0164	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	92	24 - 169
13C12-12378-PeCDF	107	24 - 185
13C12-23478-PeCDF	101	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	72	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-727-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-727-SA5C-SB

LLI Sample # SW 6665298  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:32

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72740 SDG#: PH008-02BKG

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-727-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665298  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:32

CDM Federal Programs Corp.

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72740 SDG#: PH008-02BKG

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 00:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401A	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-727-SA5C-SB-4.0-5.0MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-727-SA5C-SB

LLI Sample # SW 6665299  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:32

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72740 SDG#: PH008-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 11.1	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-727-SA5C-SB-4.0-5.0MS Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665299  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:32

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Submitted: 05/24/2012 09:45

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72740 SDG#: PH008-02MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>					<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>					<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	23.2	B	0.0152	1.11	1
11031	12378-PeCDD	40321-76-4	116	B	0.0289	5.54	1
11031	123478-HxCDD	39227-28-6	110	B	0.0317	5.54	1
11031	123678-HxCDD	57653-85-7	108	B	0.0330	5.54	1
11031	123789-HxCDD	19408-74-3	117	B	0.0304	5.54	1
11031	1234678-HpCDD	35822-46-9	114	B	0.0346	5.54	1
11031	OCDD	3268-87-9	211	B	0.0364	11.1	1
11031	2378-TCDF	51207-31-9	21.5		0.0185	1.11	1
11031	12378-PeCDF	57117-41-6	114	B	0.0164	5.54	1
11031	23478-PeCDF	57117-31-4	107	B	0.0153	5.54	1
11031	123478-HxCDF	70648-26-9	110	B	0.0360	5.54	1
11031	123678-HxCDF	57117-44-9	111	B	0.0336	5.54	1
11031	123789-HxCDF	72918-21-9	112	B	0.0343	5.54	1
11031	234678-HxCDF	60851-34-5	105	B	0.0346	5.54	1
11031	1234678-HpCDF	67562-39-4	101	B	0.0339	5.54	1
11031	1234789-HpCDF	55673-89-7	107	B	0.0474	5.54	1
11031	OCDF	39001-02-0	210	B	0.0349	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	90	26 - 152
13C12-123678-HxCDF	92	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	97	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	71	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-727-SA5C-SB-4.0-5.0MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-727-SA5C-SB

LLI Sample # SW 6665299  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:32

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Submitted: 05/24/2012 09:45

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72740 SDG#: PH008-02MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-727-SA5C-SB-4.0-5.0MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-727-SA5C-SB

**LLI Sample #** SW 6665299  
**LLI Group #** 1311345  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:32

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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72740 SDG#: PH008-02MS

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 01:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12156162401A	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-727-SA5C-SB-4.0-5.0MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665300  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:32

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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72740 SDG#: PH008-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture CDM	n.a.	11.1	0.50	0.50	1
11626	Moisture Duplicate CDM	n.a.	11.1	0.50	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-727-SA5C-SB-4.0-5.0MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665300  
LLI Group # 1311345  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/21/2012 10:32

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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72740 SDG#: PH008-02MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	23.8	B	0.0134	1.10	1
11031	12378-PeCDD	40321-76-4	116	B	0.0271	5.51	1
11031	123478-HxCDD	39227-28-6	110	B	0.0260	5.51	1
11031	123678-HxCDD	57653-85-7	106	B	0.0267	5.51	1
11031	123789-HxCDD	19408-74-3	116	B	0.0263	5.51	1
11031	1234678-HpCDD	35822-46-9	113	B	0.0330	5.51	1
11031	OCDD	3268-87-9	213	B	0.0354	11.0	1
11031	2378-TCDF	51207-31-9	21.3		0.0178	1.10	1
11031	12378-PeCDF	57117-41-6	115	B	0.0167	5.51	1
11031	23478-PeCDF	57117-31-4	107	B	0.0153	5.51	1
11031	123478-HxCDF	70648-26-9	109	B	0.0368	5.51	1
11031	123678-HxCDF	57117-44-9	110	B	0.0353	5.51	1
11031	123789-HxCDF	72918-21-9	112	B	0.0351	5.51	1
11031	234678-HxCDF	60851-34-5	106	B	0.0377	5.51	1
11031	1234678-HpCDF	67562-39-4	102	B	0.0347	5.51	1
11031	1234789-HpCDF	55673-89-7	107	B	0.0488	5.51	1
11031	OCDF	39001-02-0	208	B	0.0312	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	93	24 - 169
13C12-12378-PeCDF	104	24 - 185
13C12-23478-PeCDF	102	21 - 178
13C12-123478-HxCDF	93	26 - 152
13C12-123678-HxCDF	94	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	102	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	73	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-727-SA5C-SB-4.0-5.0MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665300  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:32

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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72740 SDG#: PH008-02MSD

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-727-SA5C-SB-4.0-5.0MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665300  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:32

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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72740 SDG#: PH008-02MSD

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 02:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12156162401A	06/04/2012 11:32	William C Schwebel	1
11626	Moisture Duplicate CDM	EPA 160.3 modified	1	12156162401A	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-734-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-734-SA5C-SB

LLI Sample # SW 6665301  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 09:29

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

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73400 SDG#: PH008-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	8.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-734-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-734-SA5C-SB

LLI Sample # SW 6665301  
LLI Group # 1311345  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/21/2012 09:29

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73400 SDG#: PH008-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.00795 U	0.00795	1.06	1
11031	12378-PeCDD	40321-76-4	0.0603 JBQ	0.0181	5.30	1
11031	123478-HxCDD	39227-28-6	0.0572 JB	0.0139	5.30	1
11031	123678-HxCDD	57653-85-7	0.0983 JBQ	0.0136	5.30	1
11031	123789-HxCDD	19408-74-3	0.168 JBQ	0.0145	5.30	1
11031	1234678-HpCDD	35822-46-9	0.644 JB	0.0122	5.30	1
11031	OCDD	3268-87-9	3.90 JB	0.0177	10.6	1
11031	2378-TCDF	51207-31-9	0.0278 JQ	0.0202	1.06	1
11031	12378-PeCDF	57117-41-6	0.164 JB	0.0122	5.30	1
11031	23478-PeCDF	57117-31-4	0.145 JBQ	0.0123	5.30	1
11031	123478-HxCDF	70648-26-9	0.0806 JBQ	0.0109	5.30	1
11031	123678-HxCDF	57117-44-9	0.0556 JBQ	0.00962	5.30	1
11031	123789-HxCDF	72918-21-9	0.191 JB	0.0112	5.30	1
11031	234678-HxCDF	60851-34-5	0.0651 JBQ	0.0106	5.30	1
11031	1234678-HpCDF	67562-39-4	0.206 JBQ	0.0133	5.30	1
11031	1234789-HpCDF	55673-89-7	0.0819 JBQ	0.0246	5.30	1
11031	OCDF	39001-02-0	0.349 JBQ	0.0182	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	91	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	109	24 - 185
13C12-23478-PeCDF	100	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	95	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	109	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	60	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-734-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-734-SA5C-SB

LLI Sample # SW 6665301  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 09:29

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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73400 SDG#: PH008-03

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-734-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-734-SA5C-SB

LLI Sample # SW 6665301  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 09:29

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Submitted: 05/24/2012 09:45

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73400 SDG#: PH008-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 03:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401A	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-734-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-734-SA5C-SB

LLI Sample # SW 6665302  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 09:33

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Submitted: 05/24/2012 09:45

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73440 SDG#: PH008-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-734-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-734-SA5C-SB

LLI Sample # SW 6665302  
LLI Group # 1311345  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/21/2012 09:33

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Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73440 SDG#: PH008-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0159 JBQ	0.00796	1.07	1
11031	12378-PeCDD	40321-76-4	0.0597 JB	0.0193	5.34	1
11031	123478-HxCDD	39227-28-6	0.0210 JB	0.0129	5.34	1
11031	123678-HxCDD	57653-85-7	0.168 JB	0.0130	5.34	1
11031	123789-HxCDD	19408-74-3	0.203 JBQ	0.0126	5.34	1
11031	1234678-HpCDD	35822-46-9	0.211 JBQ	0.0103	5.34	1
11031	OCDD	3268-87-9	0.862 JB	0.0182	10.7	1
11031	2378-TCDF	51207-31-9	0.0152 J	0.00954	1.07	1
11031	12378-PeCDF	57117-41-6	0.0742 JBQ	0.0106	5.34	1
11031	23478-PeCDF	57117-31-4	0.0584 JBQ	0.0102	5.34	1
11031	123478-HxCDF	70648-26-9	0.0381 JBQ	0.00775	5.34	1
11031	123678-HxCDF	57117-44-9	0.0391 JB	0.00721	5.34	1
11031	123789-HxCDF	72918-21-9	0.178 JB	0.00723	5.34	1
11031	234678-HxCDF	60851-34-5	0.0177 JB	0.00713	5.34	1
11031	1234678-HpCDF	67562-39-4	0.110 JB	0.00415	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0196 JB	0.00644	5.34	1
11031	OCDF	39001-02-0	0.151 JBQ	0.0119	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	101	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	100	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	70	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-734-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-734-SA5C-SB

LLI Sample # SW 6665302  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 09:33

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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73440 SDG#: PH008-04

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-734-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-734-SA5C-SB

LLI Sample # SW 6665302  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 09:33

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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73440 SDG#: PH008-04

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### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 07:22	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401A	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-734-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-734-SA5C-SB

LLI Sample # SW 6665303  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 09:38

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73490 SDG#: PH008-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-734-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-734-SA5C-SB

LLI Sample # SW 6665303  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 09:38

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73490 SDG#: PH008-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.00735	U	0.00735	1.10	1
11031	12378-PeCDD	40321-76-4	0.0242	JBQ	0.0182	5.48	1
11031	123478-HxCDD	39227-28-6	0.0119	U	0.0119	5.48	1
11031	123678-HxCDD	57653-85-7	0.0213	JBQ	0.0120	5.48	1
11031	123789-HxCDD	19408-74-3	0.0352	JBQ	0.0117	5.48	1
11031	1234678-HpCDD	35822-46-9	0.247	JB	0.00872	5.48	1
11031	OCDD	3268-87-9	0.884	JB	0.0270	11.0	1
11031	2378-TCDF	51207-31-9	0.0158	J	0.00837	1.10	1
11031	12378-PeCDF	57117-41-6	0.0236	JBQ	0.00779	5.48	1
11031	23478-PeCDF	57117-31-4	0.0485	JB	0.00792	5.48	1
11031	123478-HxCDF	70648-26-9	0.0212	JB	0.00757	5.48	1
11031	123678-HxCDF	57117-44-9	0.00992	JBQ	0.00687	5.48	1
11031	123789-HxCDF	72918-21-9	0.0331	JBQ	0.00829	5.48	1
11031	234678-HxCDF	60851-34-5	0.0210	JBQ	0.00703	5.48	1
11031	1234678-HpCDF	67562-39-4	0.0741	JBQ	0.0163	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0351	JB	0.0267	5.48	1
11031	OCDF	39001-02-0	0.0424	JBQ	0.0210	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	89	24 - 169
13C12-12378-PeCDF	107	24 - 185
13C12-23478-PeCDF	98	21 - 178
13C12-123478-HxCDF	90	26 - 152
13C12-123678-HxCDF	95	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	58	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-734-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-734-SA5C-SB

LLI Sample # SW 6665303  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 09:38

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73490 SDG#: PH008-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-734-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-734-SA5C-SB

LLI Sample # SW 6665303  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 09:38

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73490 SDG#: PH008-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 08:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-1027-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-1027-SA5C-SB

LLI Sample # SW 6665304  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 11:00

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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10270 SDG#: PH008-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-1027-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-1027-SA5C-SB

LLI Sample # SW 6665304  
LLI Group # 1311345  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/21/2012 11:00

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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10270 SDG#: PH008-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.00943 U	0.00943	1.13	1
11031	12378-PeCDD	40321-76-4	0.157 JBQ	0.0226	5.63	1
11031	123478-HxCDD	39227-28-6	0.0539 JBQ	0.0169	5.63	1
11031	123678-HxCDD	57653-85-7	0.451 JB	0.0170	5.63	1
11031	123789-HxCDD	19408-74-3	0.600 JBQ	0.0171	5.63	1
11031	1234678-HpCDD	35822-46-9	0.384 JB	0.00925	5.63	1
11031	OCDD	3268-87-9	1.15 JB	0.0263	11.3	1
11031	2378-TCDF	51207-31-9	0.0312 J	0.0115	1.13	1
11031	12378-PeCDF	57117-41-6	0.237 JBQ	0.0108	5.63	1
11031	23478-PeCDF	57117-31-4	0.114 JB	0.0106	5.63	1
11031	123478-HxCDF	70648-26-9	0.0766 JBQ	0.0102	5.63	1
11031	123678-HxCDF	57117-44-9	0.119 JB	0.00886	5.63	1
11031	123789-HxCDF	72918-21-9	0.365 JBQ	0.00904	5.63	1
11031	234678-HxCDF	60851-34-5	0.0761 JB	0.00854	5.63	1
11031	1234678-HpCDF	67562-39-4	0.0760 JBQ	0.00714	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0232 JBQ	0.0119	5.63	1
11031	OCDF	39001-02-0	0.115 JBQ	0.0213	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	93	25 - 164
13C12-12378-PeCDD	99	25 - 181
13C12-123478-HxCDD	95	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	99	24 - 169
13C12-12378-PeCDF	117	24 - 185
13C12-23478-PeCDF	108	21 - 178
13C12-123478-HxCDF	90	26 - 152
13C12-123678-HxCDF	99	26 - 123
13C12-234678-HxCDF	98	28 - 136
13C12-123789-HxCDF	102	29 - 147
13C12-1234678-HpCDF	111	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	72	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-1027-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-1027-SA5C-SB

LLI Sample # SW 6665304  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 11:00

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

10270 SDG#: PH008-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-1027-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-1027-SA5C-SB

LLI Sample # SW 6665304  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 11:00

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

10270 SDG#: PH008-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 09:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-682-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-682-SA5C-SB

LLI Sample # SW 6665305  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 14:50

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

68200 SDG#: PH008-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-682-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-682-SA5C-SB

LLI Sample # SW 6665305  
LLI Group # 1311345  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/22/2012 14:50

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

68200 SDG#: PH008-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0277	JB	0.00897	1.07	1
11031	12378-PeCDD	40321-76-4	0.265	JB	0.0216	5.35	1
11031	123478-HxCDD	39227-28-6	0.783	JB	0.0222	5.35	1
11031	123678-HxCDD	57653-85-7	1.24	JB	0.0226	5.35	1
11031	123789-HxCDD	19408-74-3	0.877	JB	0.0208	5.35	1
11031	1234678-HpCDD	35822-46-9	8.51	B	0.0280	5.35	1
11031	OCDD	3268-87-9	64.3	B	0.0230	10.7	1
11031	2378-TCDF	51207-31-9	0.104	J	0.0225	1.07	1
11031	12378-PeCDF	57117-41-6	0.440	JB	0.0135	5.35	1
11031	23478-PeCDF	57117-31-4	0.312	JB	0.0140	5.35	1
11031	123478-HxCDF	70648-26-9	0.348	JB	0.0152	5.35	1
11031	123678-HxCDF	57117-44-9	0.246	JB	0.0138	5.35	1
11031	123789-HxCDF	72918-21-9	0.557	JB	0.0150	5.35	1
11031	234678-HxCDF	60851-34-5	0.233	JBQ	0.0143	5.35	1
11031	1234678-HpCDF	67562-39-4	2.83	JB	0.00869	5.35	1
11031	1234789-HpCDF	55673-89-7	0.216	JB	0.0140	5.35	1
11031	OCDF	39001-02-0	3.07	JB	0.0148	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	65	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-682-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-682-SA5C-SB

LLI Sample # SW 6665305  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 14:50

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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68200 SDG#: PH008-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-682-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-682-SA5C-SB

LLI Sample # SW 6665305  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 14:50

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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Fairfax VA 22030

68200 SDG#: PH008-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 20:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-682-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-682-SA5C-SB

LLI Sample # SW 6665306  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 14:54

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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Fairfax VA 22030

68240 SDG#: PH008-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-682-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-682-SA5C-SB

LLI Sample # SW 6665306  
LLI Group # 1311345  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/22/2012 14:54

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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Fairfax VA 22030

68240 SDG#: PH008-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0114 U	0.0114	1.13	1
11031	12378-PeCDD	40321-76-4	0.0428 JB	0.0197	5.65	1
11031	123478-HxCDD	39227-28-6	0.0186 JBQ	0.0139	5.65	1
11031	123678-HxCDD	57653-85-7	0.0461 JBQ	0.0147	5.65	1
11031	123789-HxCDD	19408-74-3	0.102 JBQ	0.0142	5.65	1
11031	1234678-HpCDD	35822-46-9	0.226 JB	0.00916	5.65	1
11031	OCDD	3268-87-9	0.881 JBQ	0.0237	11.3	1
11031	2378-TCDF	51207-31-9	0.00990 U	0.00990	1.13	1
11031	12378-PeCDF	57117-41-6	0.0632 JB	0.00845	5.65	1
11031	23478-PeCDF	57117-31-4	0.0662 JB	0.00875	5.65	1
11031	123478-HxCDF	70648-26-9	0.0303 JBQ	0.00778	5.65	1
11031	123678-HxCDF	57117-44-9	0.0310 JBQ	0.00622	5.65	1
11031	123789-HxCDF	72918-21-9	0.0379 JB	0.00884	5.65	1
11031	234678-HxCDF	60851-34-5	0.00753 U	0.00753	5.65	1
11031	1234678-HpCDF	67562-39-4	0.0283 JBQ	0.00660	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0510 JB	0.0141	5.65	1
11031	OCDF	39001-02-0	0.0945 JBQ	0.0256	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	104	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	94	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	111	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	45	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-682-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-682-SA5C-SB

LLI Sample # SW 6665306  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 14:54

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

68240 SDG#: PH008-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-682-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-682-SA5C-SB

LLI Sample # SW 6665306  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 14:54

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

68240 SDG#: PH008-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 11:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-682-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-682-SA5C-SB

LLI Sample # SW 6665307  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 14:58

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

68290 SDG#: PH008-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	11.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-682-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-682-SA5C-SB

LLI Sample # SW 6665307  
LLI Group # 1311345  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/22/2012 14:58

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

68290 SDG#: PH008-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0190 JBQ	0.0105	1.10	1
11031	12378-PeCDD	40321-76-4	0.0216 U	0.0216	5.49	1
11031	123478-HxCDD	39227-28-6	0.0146 U	0.0146	5.49	1
11031	123678-HxCDD	57653-85-7	0.0280 JBQ	0.0148	5.49	1
11031	123789-HxCDD	19408-74-3	0.0133 U	0.0133	5.49	1
11031	1234678-HpCDD	35822-46-9	0.285 JB	0.00875	5.49	1
11031	OCDD	3268-87-9	0.545 JBQ	0.0254	11.0	1
11031	2378-TCDF	51207-31-9	0.0164 JQ	0.00725	1.10	1
11031	12378-PeCDF	57117-41-6	0.0376 JBQ	0.00924	5.49	1
11031	23478-PeCDF	57117-31-4	0.0720 JBQ	0.00941	5.49	1
11031	123478-HxCDF	70648-26-9	0.0124 JBQ	0.00634	5.49	1
11031	123678-HxCDF	57117-44-9	0.0182 JBQ	0.00550	5.49	1
11031	123789-HxCDF	72918-21-9	0.0213 JB	0.00577	5.49	1
11031	234678-HxCDF	60851-34-5	0.0100 JBQ	0.00570	5.49	1
11031	1234678-HpCDF	67562-39-4	0.0244 JB	0.00625	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0115 U	0.0115	5.49	1
11031	OCDF	39001-02-0	0.0634 JB	0.0221	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	45	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

Sample Description: SL-682-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-682-SA5C-SB

LLI Sample # SW 6665307  
LLI Group # 1311345  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/22/2012 14:58

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

68290 SDG#: PH008-09

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-682-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-682-SA5C-SB

LLI Sample # SW 6665307  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 14:58

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

68290 SDG#: PH008-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 12:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-733-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-733-SA5C-SB

LLI Sample # SW 6665308  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 09:23

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

73300 SDG#: PH008-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-733-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-733-SA5C-SB

LLI Sample # SW 6665308  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 09:23

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

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73300 SDG#: PH008-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0141 JBQ	0.0112	1.10	1
11031	12378-PeCDD	40321-76-4	0.0699 JBQ	0.0381	5.50	1
11031	123478-HxCDD	39227-28-6	0.0344 U	0.0344	5.50	1
11031	123678-HxCDD	57653-85-7	0.234 JB	0.0351	5.50	1
11031	123789-HxCDD	19408-74-3	0.298 JB	0.0288	5.50	1
11031	1234678-HpCDD	35822-46-9	0.778 JBQ	0.0206	5.50	1
11031	OCDD	3268-87-9	4.05 JB	0.0538	11.0	1
11031	2378-TCDF	51207-31-9	0.0368 U	0.0368	1.10	1
11031	12378-PeCDF	57117-41-6	0.322 JB	0.0272	5.50	1
11031	23478-PeCDF	57117-31-4	0.109 JBQ	0.0283	5.50	1
11031	123478-HxCDF	70648-26-9	0.0918 JBQ	0.0259	5.50	1
11031	123678-HxCDF	57117-44-9	0.0533 JBQ	0.0227	5.50	1
11031	123789-HxCDF	72918-21-9	0.195 JBQ	0.0147	5.50	1
11031	234678-HxCDF	60851-34-5	0.0604 JBQ	0.0195	5.50	1
11031	1234678-HpCDF	67562-39-4	0.0993 JB	0.0194	5.50	1
11031	1234789-HpCDF	55673-89-7	0.0601 JB	0.0221	5.50	1
11031	OCDF	39001-02-0	0.214 JBQ	0.0312	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	49	25 - 181
13C12-123478-HxCDD	42	32 - 141
13C12-123678-HxCDD	40	28 - 130
13C12-123789-HxCDD	48	28 - 130
13C12-1234678-HpCDD	42	23 - 140
13C12-OCDD	39	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	56	24 - 185
13C12-23478-PeCDF	51	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	40	26 - 123
13C12-234678-HxCDF	47	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	41	28 - 143
13C12-1234789-HpCDF	40	26 - 138
13C12-OCDF	37	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-733-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-733-SA5C-SB

LLI Sample # SW 6665308  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 09:23

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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73300 SDG#: PH008-10

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-733-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-733-SA5C-SB

LLI Sample # SW 6665308  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 09:23

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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73300 SDG#: PH008-10

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 13:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-733-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-733-SA5C-SB

LLI Sample # SW 6665309  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 09:42

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73340 SDG#: PH008-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-733-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-733-SA5C-SB

LLI Sample # SW 6665309  
LLI Group # 1311345  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/22/2012 09:42

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73340 SDG#: PH008-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.00842 U	0.00842	1.08	1
11031	12378-PeCDD	40321-76-4	0.0203 U	0.0203	5.42	1
11031	123478-HxCDD	39227-28-6	0.0129 U	0.0129	5.42	1
11031	123678-HxCDD	57653-85-7	0.0375 JBQ	0.0129	5.42	1
11031	123789-HxCDD	19408-74-3	0.0552 JB	0.0122	5.42	1
11031	1234678-HpCDD	35822-46-9	0.346 JBQ	0.00888	5.42	1
11031	OCDD	3268-87-9	0.782 JB	0.0261	10.8	1
11031	2378-TCDF	51207-31-9	0.0122 JQ	0.00852	1.08	1
11031	12378-PeCDF	57117-41-6	0.0353 JB	0.00906	5.42	1
11031	23478-PeCDF	57117-31-4	0.0489 JB	0.00905	5.42	1
11031	123478-HxCDF	70648-26-9	0.0166 JBQ	0.00600	5.42	1
11031	123678-HxCDF	57117-44-9	0.00497 U	0.00497	5.42	1
11031	123789-HxCDF	72918-21-9	0.0552 JBQ	0.00674	5.42	1
11031	234678-HxCDF	60851-34-5	0.0144 JBQ	0.00542	5.42	1
11031	1234678-HpCDF	67562-39-4	0.0473 JB	0.00483	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0187 JBQ	0.00970	5.42	1
11031	OCDF	39001-02-0	0.0768 JB	0.0234	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	47	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-733-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-733-SA5C-SB

LLI Sample # SW 6665309  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 09:42

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Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73340 SDG#: PH008-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-733-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-733-SA5C-SB

LLI Sample # SW 6665309  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 09:42

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73340 SDG#: PH008-11

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 13:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-733-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-733-SA5C-SB

LLI Sample # SW 6665310  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 09:58

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73390 SDG#: PH008-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	14.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-733-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-733-SA5C-SB

LLI Sample # SW 6665310  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 09:58

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73390 SDG#: PH008-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.00875 U	0.00875	1.14	1
11031	12378-PeCDD	40321-76-4	0.0289 JBQ	0.0257	5.72	1
11031	123478-HxCDD	39227-28-6	0.0172 U	0.0172	5.72	1
11031	123678-HxCDD	57653-85-7	0.0312 JBQ	0.0177	5.72	1
11031	123789-HxCDD	19408-74-3	0.0396 JBQ	0.0157	5.72	1
11031	1234678-HpCDD	35822-46-9	0.279 JB	0.0138	5.72	1
11031	OCDD	3268-87-9	0.645 JB	0.0399	11.4	1
11031	2378-TCDF	51207-31-9	0.0101 U	0.0101	1.14	1
11031	12378-PeCDF	57117-41-6	0.0279 JBQ	0.0143	5.72	1
11031	23478-PeCDF	57117-31-4	0.0541 JB	0.0164	5.72	1
11031	123478-HxCDF	70648-26-9	0.0210 JBQ	0.0126	5.72	1
11031	123678-HxCDF	57117-44-9	0.00980 U	0.00980	5.72	1
11031	123789-HxCDF	72918-21-9	0.0326 JBQ	0.0117	5.72	1
11031	234678-HxCDF	60851-34-5	0.0159 JBQ	0.0104	5.72	1
11031	1234678-HpCDF	67562-39-4	0.0222 JB	0.00528	5.72	1
11031	1234789-HpCDF	55673-89-7	0.0571 JBQ	0.0147	5.72	1
11031	OCDF	39001-02-0	0.108 JB	0.0507	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	55	25 - 181
13C12-123478-HxCDD	53	32 - 141
13C12-123678-HxCDD	49	28 - 130
13C12-123789-HxCDD	57	28 - 130
13C12-1234678-HpCDD	49	23 - 140
13C12-OCDD	39	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	54	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	53	28 - 136
13C12-123789-HxCDF	54	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	30	26 - 138
13C12-OCDF	20	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-733-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-733-SA5C-SB

LLI Sample # SW 6665310  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 09:58

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

73390 SDG#: PH008-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-733-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-733-SA5C-SB

LLI Sample # SW 6665310  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/22/2012 09:58

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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73390 SDG#: PH008-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 14:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-727-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665311  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:36

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

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72790 SDG#: PH008-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-727-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665311  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:36

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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72790 SDG#: PH008-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0298	U	0.0298	1.12	1
11031	12378-PeCDD	40321-76-4	0.0198	U	0.0198	5.60	1
11031	123478-HxCDD	39227-28-6	0.0184	U	0.0184	5.60	1
11031	123678-HxCDD	57653-85-7	0.0334	JBQ	0.0194	5.60	1
11031	123789-HxCDD	19408-74-3	0.0451	JB	0.0189	5.60	1
11031	1234678-HpCDD	35822-46-9	0.480	JB	0.0246	5.60	1
11031	OCDD	3268-87-9	2.63	JB	0.0210	11.2	1
11031	2378-TCDF	51207-31-9	0.0225	JB	0.0182	1.12	1
11031	12378-PeCDF	57117-41-6	0.0570	JB	0.0134	5.60	1
11031	23478-PeCDF	57117-31-4	0.0406	JB	0.0124	5.60	1
11031	123478-HxCDF	70648-26-9	0.0658	JB	0.0113	5.60	1
11031	123678-HxCDF	57117-44-9	0.0461	JB	0.0108	5.60	1
11031	123789-HxCDF	72918-21-9	0.0582	JB	0.0116	5.60	1
11031	234678-HxCDF	60851-34-5	0.0641	JB	0.0102	5.60	1
11031	1234678-HpCDF	67562-39-4	0.186	JB	0.0107	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0503	JB	0.0155	5.60	1
11031	OCDF	39001-02-0	0.210	JB	0.0204	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	66	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-727-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665311  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:36

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

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72790 SDG#: PH008-13

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-727-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-727-SA5C-SB

LLI Sample # SW 6665311  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/21/2012 10:36

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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72790 SDG#: PH008-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12157002	06/06/2012 20:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	2	12157002	06/05/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-674-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-674-SA5C-SB

LLI Sample # SW 6665312  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 10:59

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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67400 SDG#: PH008-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-674-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-674-SA5C-SB

LLI Sample # SW 6665312  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 10:59

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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67400 SDG#: PH008-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
	<b>EPA 1613B</b>					
11031	2378-TCDD	1746-01-6	0.0269 JB	0.00775	1.06	1
11031	12378-PeCDD	40321-76-4	0.0755 JB	0.0272	5.32	1
11031	123478-HxCDD	39227-28-6	0.0504 JBQ	0.0231	5.32	1
11031	123678-HxCDD	57653-85-7	0.350 JBQ	0.0233	5.32	1
11031	123789-HxCDD	19408-74-3	0.272 JB	0.0207	5.32	1
11031	1234678-HpCDD	35822-46-9	3.74 JB	0.0246	5.32	1
11031	OCDD	3268-87-9	35.2 B	0.0354	10.6	1
11031	2378-TCDF	51207-31-9	0.0627 J	0.0153	1.06	1
11031	12378-PeCDF	57117-41-6	0.155 JBQ	0.0152	5.32	1
11031	23478-PeCDF	57117-31-4	0.247 JB	0.0176	5.32	1
11031	123478-HxCDF	70648-26-9	0.380 JB	0.0182	5.32	1
11031	123678-HxCDF	57117-44-9	0.0866 JB	0.0137	5.32	1
11031	123789-HxCDF	72918-21-9	0.198 JB	0.0207	5.32	1
11031	234678-HxCDF	60851-34-5	0.121 JBQ	0.0174	5.32	1
11031	1234678-HpCDF	67562-39-4	0.547 JB	0.00664	5.32	1
11031	1234789-HpCDF	55673-89-7	0.136 JBQ	0.0221	5.32	1
11031	OCDF	39001-02-0	1.07 JB	0.0564	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	57	25 - 181
13C12-123478-HxCDD	55	32 - 141
13C12-123678-HxCDD	52	28 - 130
13C12-123789-HxCDD	57	28 - 130
13C12-1234678-HpCDD	51	23 - 140
13C12-OCDD	47	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	52	21 - 178
13C12-123478-HxCDF	50	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	49	28 - 136
13C12-123789-HxCDF	46	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	27	26 - 138
13C12-OCDF	19	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-674-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-674-SA5C-SB

LLI Sample # SW 6665312  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 10:59

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67400 SDG#: PH008-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-674-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-674-SA5C-SB

LLI Sample # SW 6665312  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 10:59

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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67400 SDG#: PH008-14

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### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 22:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-674-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-674-SA5C-SB

LLI Sample # SW 6665313  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 11:02

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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67425 SDG#: PH008-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	6.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-674-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-674-SA5C-SB

LLI Sample # SW 6665313  
LLI Group # 1311345  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/23/2012 11:02

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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67425 SDG#: PH008-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0357 JBQ	0.00723	1.04	1
11031	12378-PeCDD	40321-76-4	0.0517 JBQ	0.0174	5.20	1
11031	123478-HxCDD	39227-28-6	0.0277 JBQ	0.0122	5.20	1
11031	123678-HxCDD	57653-85-7	0.0367 JBQ	0.0120	5.20	1
11031	123789-HxCDD	19408-74-3	0.0488 JBQ	0.0114	5.20	1
11031	1234678-HpCDD	35822-46-9	0.265 JB	0.00731	5.20	1
11031	OCDD	3268-87-9	0.491 JB	0.0191	10.4	1
11031	2378-TCDF	51207-31-9	0.0273 JQ	0.00720	1.04	1
11031	12378-PeCDF	57117-41-6	0.0930 JBQ	0.00805	5.20	1
11031	23478-PeCDF	57117-31-4	0.118 JBQ	0.00892	5.20	1
11031	123478-HxCDF	70648-26-9	0.0616 JB	0.00764	5.20	1
11031	123678-HxCDF	57117-44-9	0.0471 JBQ	0.00587	5.20	1
11031	123789-HxCDF	72918-21-9	0.0678 JB	0.00986	5.20	1
11031	234678-HxCDF	60851-34-5	0.0342 JBQ	0.00683	5.20	1
11031	1234678-HpCDF	67562-39-4	0.0293 JB	0.00382	5.20	1
11031	1234789-HpCDF	55673-89-7	0.0217 JB	0.0126	5.20	1
11031	OCDF	39001-02-0	0.156 JBQ	0.0315	10.4	1

The recovery for labeled compound 13C12-1234678-HpCDF was outside of QC acceptance limits. The data quality is not impacted by this result.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	98	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	96	28 - 130
13C12-1234678-HpCDD	105	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	115	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	108	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	146	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	35	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-674-SA5C-SB-2.5-3.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-674-SA5C-SB

LLI Sample # SW 6665313  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 11:02

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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67425 SDG#: PH008-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

**Sample Description:** SL-674-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-674-SA5C-SB

LLI Sample # SW 6665313  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 11:02

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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67425 SDG#: PH008-15

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 22:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-675-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-675-SA5C-SB

LLI Sample # SW 6665314  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 10:26

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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67500 SDG#: PH008-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	5.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-675-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-675-SA5C-SB

LLI Sample # SW 6665314  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 10:26

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Submitted: 05/24/2012 09:45

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67500 SDG#: PH008-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>						
11031	2378-TCDD	1746-01-6	0.0183 JBQ	0.00852	1.02	1
11031	12378-PeCDD	40321-76-4	0.0282 JBQ	0.0142	5.10	1
11031	123478-HxCDD	39227-28-6	0.0482 JB	0.0132	5.10	1
11031	123678-HxCDD	57653-85-7	0.105 JB	0.0131	5.10	1
11031	123789-HxCDD	19408-74-3	0.0957 JB	0.0127	5.10	1
11031	1234678-HpCDD	35822-46-9	4.32 JB	0.0171	5.10	1
11031	OCDD	3268-87-9	47.4 B	0.0213	10.2	1
11031	2378-TCDF	51207-31-9	0.0301 J	0.00855	1.02	1
11031	12378-PeCDF	57117-41-6	0.0690 JB	0.00804	5.10	1
11031	23478-PeCDF	57117-31-4	0.0825 JB	0.00795	5.10	1
11031	123478-HxCDF	70648-26-9	0.0388 JB	0.00841	5.10	1
11031	123678-HxCDF	57117-44-9	0.0254 JBQ	0.00696	5.10	1
11031	123789-HxCDF	72918-21-9	0.0346 JBQ	0.00729	5.10	1
11031	234678-HxCDF	60851-34-5	0.0455 JBQ	0.00623	5.10	1
11031	1234678-HpCDF	67562-39-4	0.303 JB	0.00706	5.10	1
11031	1234789-HpCDF	55673-89-7	0.0498 JBQ	0.00912	5.10	1
11031	OCDF	39001-02-0	0.613 JB	0.0145	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	94	24 - 169
13C12-12378-PeCDF	101	24 - 185
13C12-23478-PeCDF	97	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	70	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-675-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-675-SA5C-SB

**LLI Sample #** SW 6665314  
**LLI Group #** 1311345  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 10:26

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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67500 SDG#: PH008-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-675-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-675-SA5C-SB

LLI Sample # SW 6665314  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 10:26

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Submitted: 05/24/2012 09:45

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67500 SDG#: PH008-16

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/30/2012 23:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-678-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-678-SA5C-SB

LLI Sample # SW 6665315  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 09:42

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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67800 SDG#: PH008-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-678-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-678-SA5C-SB

LLI Sample # SW 6665315  
LLI Group # 1311345  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/23/2012 09:42

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Submitted: 05/24/2012 09:45

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67800 SDG#: PH008-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0125 JBQ	0.00830	1.09	1
11031	12378-PeCDD	40321-76-4	0.0206 JBQ	0.0175	5.44	1
11031	123478-HxCDD	39227-28-6	0.0140 U	0.0140	5.44	1
11031	123678-HxCDD	57653-85-7	0.0812 JBQ	0.0142	5.44	1
11031	123789-HxCDD	19408-74-3	0.0910 JBQ	0.0135	5.44	1
11031	1234678-HpCDD	35822-46-9	1.05 JB	0.0137	5.44	1
11031	OCDD	3268-87-9	7.90 JB	0.0232	10.9	1
11031	2378-TCDF	51207-31-9	0.0166 JQ	0.00690	1.09	1
11031	12378-PeCDF	57117-41-6	0.0348 JB	0.00881	5.44	1
11031	23478-PeCDF	57117-31-4	0.0523 JB	0.00904	5.44	1
11031	123478-HxCDF	70648-26-9	0.0333 JBQ	0.0104	5.44	1
11031	123678-HxCDF	57117-44-9	0.0255 JB	0.00803	5.44	1
11031	123789-HxCDF	72918-21-9	0.0458 JBQ	0.00694	5.44	1
11031	234678-HxCDF	60851-34-5	0.0182 JBQ	0.00647	5.44	1
11031	1234678-HpCDF	67562-39-4	0.110 JB	0.00975	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0296 JB	0.0119	5.44	1
11031	OCDF	39001-02-0	0.205 JBQ	0.0269	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	55	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	59	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-678-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-678-SA5C-SB

LLI Sample # SW 6665315  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 09:42

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

67800 SDG#: PH008-17

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-678-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-678-SA5C-SB

LLI Sample # SW 6665315  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 09:42

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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67800 SDG#: PH008-17

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/31/2012 00:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-678-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-678-SA5C-SB

LLI Sample # SW 6665316  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 09:46

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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67825 SDG#: PH008-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-678-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-678-SA5C-SB

LLI Sample # SW 6665316  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 09:46

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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67825 SDG#: PH008-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0180	JBQ	0.00711	1.06	1
11031	12378-PeCDD	40321-76-4	0.0221	JBQ	0.0170	5.32	1
11031	123478-HxCDD	39227-28-6	0.0138	U	0.0138	5.32	1
11031	123678-HxCDD	57653-85-7	0.0202	JBQ	0.0143	5.32	1
11031	123789-HxCDD	19408-74-3	0.0339	JB	0.0132	5.32	1
11031	1234678-HpCDD	35822-46-9	0.334	JB	0.0151	5.32	1
11031	OCDD	3268-87-9	1.10	JB	0.0305	10.6	1
11031	2378-TCDF	51207-31-9	0.00644	U	0.00644	1.06	1
11031	12378-PeCDF	57117-41-6	0.0182	JB	0.00771	5.32	1
11031	23478-PeCDF	57117-31-4	0.0355	JB	0.00878	5.32	1
11031	123478-HxCDF	70648-26-9	0.0326	JBQ	0.00650	5.32	1
11031	123678-HxCDF	57117-44-9	0.00666	JBQ	0.00497	5.32	1
11031	123789-HxCDF	72918-21-9	0.0196	JB	0.00844	5.32	1
11031	234678-HxCDF	60851-34-5	0.0115	JBQ	0.00634	5.32	1
11031	1234678-HpCDF	67562-39-4	0.0375	JB	0.00671	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0193	U	0.0193	5.32	1
11031	OCDF	39001-02-0	0.0987	JB	0.0441	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	109	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	96	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	124	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	34	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-678-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-678-SA5C-SB

LLI Sample # SW 6665316  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 09:46

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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67825 SDG#: PH008-18

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-678-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-678-SA5C-SB

LLI Sample # SW 6665316  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 09:46

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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67825 SDG#: PH008-18

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/31/2012 01:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-681-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-681-SA5C-SB

LLI Sample # SW 6665317  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 07:59

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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68140 SDG#: PH008-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture CDM	n.a.	10.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-681-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-681-SA5C-SB

LLI Sample # SW 6665317  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 07:59

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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68140 SDG#: PH008-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.00990 JB	0.00730	1.11	1
11031	12378-PeCDD	40321-76-4	0.0217 JBQ	0.0196	5.55	1
11031	123478-HxCDD	39227-28-6	0.0179 JBQ	0.0135	5.55	1
11031	123678-HxCDD	57653-85-7	0.0274 JB	0.0139	5.55	1
11031	123789-HxCDD	19408-74-3	0.0435 JB	0.0125	5.55	1
11031	1234678-HpCDD	35822-46-9	0.737 JB	0.0113	5.55	1
11031	OCDD	3268-87-9	5.58 JB	0.0221	11.1	1
11031	2378-TCDF	51207-31-9	0.0117 JQ	0.00817	1.11	1
11031	12378-PeCDF	57117-41-6	0.0269 JBQ	0.00733	5.55	1
11031	23478-PeCDF	57117-31-4	0.0539 JB	0.00877	5.55	1
11031	123478-HxCDF	70648-26-9	0.0420 JBQ	0.00799	5.55	1
11031	123678-HxCDF	57117-44-9	0.0107 JBQ	0.00548	5.55	1
11031	123789-HxCDF	72918-21-9	0.0150 JB	0.00859	5.55	1
11031	234678-HxCDF	60851-34-5	0.0227 JBQ	0.00586	5.55	1
11031	1234678-HpCDF	67562-39-4	0.110 JB	0.00533	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0159 JBQ	0.0138	5.55	1
11031	OCDF	39001-02-0	0.267 JB	0.0337	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	35	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-681-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-681-SA5C-SB

LLI Sample # SW 6665317  
 LLI Group # 1311345  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 07:59

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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68140 SDG#: PH008-19

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-681-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-681-SA5C-SB

LLI Sample # SW 6665317  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 07:59

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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68140 SDG#: PH008-19

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/31/2012 02:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

**Sample Description:** SL-681-SA5C-SB-7.5-8.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-681-SA5C-SB

LLI Sample # SW 6665318  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 08:05

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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68175 SDG#: PH008-20\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-681-SA5C-SB-7.5-8.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-681-SA5C-SB

LLI Sample # SW 6665318  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 08:05

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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68175 SDG#: PH008-20\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.00812 U	0.00812	1.07	1
11031	12378-PeCDD	40321-76-4	0.0235 JB	0.0166	5.37	1
11031	123478-HxCDD	39227-28-6	0.0119 U	0.0119	5.37	1
11031	123678-HxCDD	57653-85-7	0.0290 JBQ	0.0123	5.37	1
11031	123789-HxCDD	19408-74-3	0.0401 JB	0.0121	5.37	1
11031	1234678-HpCDD	35822-46-9	0.365 JBQ	0.00644	5.37	1
11031	OCDD	3268-87-9	1.54 JB	0.0176	10.7	1
11031	2378-TCDF	51207-31-9	0.00957 U	0.00957	1.07	1
11031	12378-PeCDF	57117-41-6	0.0337 JB	0.00894	5.37	1
11031	23478-PeCDF	57117-31-4	0.0792 JB	0.00942	5.37	1
11031	123478-HxCDF	70648-26-9	0.0380 JB	0.00798	5.37	1
11031	123678-HxCDF	57117-44-9	0.0312 JBQ	0.00633	5.37	1
11031	123789-HxCDF	72918-21-9	0.0205 JBQ	0.00821	5.37	1
11031	234678-HxCDF	60851-34-5	0.0575 JBQ	0.00713	5.37	1
11031	1234678-HpCDF	67562-39-4	0.200 JB	0.00510	5.37	1
11031	1234789-HpCDF	55673-89-7	0.0255 JB	0.0119	5.37	1
11031	OCDF	39001-02-0	0.208 JB	0.0208	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	95	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	122	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	47	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-681-SA5C-SB-7.5-8.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-681-SA5C-SB

LLI Sample # SW 6665318  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 08:05

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

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Reported: 06/07/2012 10:54

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Fairfax VA 22030

68175 SDG#: PH008-20\*

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-681-SA5C-SB-7.5-8.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-681-SA5C-SB

LLI Sample # SW 6665318  
LLI Group # 1311345  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 08:05

CDM Federal Programs Corp.

Submitted: 05/24/2012 09:45

3201 Jermantown Road

Reported: 06/07/2012 10:54

Suite 400

Fairfax VA 22030

68175 SDG#: PH008-20\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12146002	05/31/2012 03:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12146002	05/28/2012 06:45	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162401B	06/04/2012 11:32	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/07/12 at 10:54 AM

Group Number: 1311345

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12156162401A	Sample number(s): 6665297-6665302								
Moisture CDM					100		80-120		
Moisture CDM					100		80-120		
Moisture Duplicate CDM					100		80-120		
Batch number: 12156162401B	Sample number(s): 6665303-6665318								
Moisture CDM					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12146002	Sample number(s): 6665297-6665310, 6665312-6665318								
2378-TCDD	0.0288 J	0.00630	1.00	ng/kg	105		67-158		
12378-PeCDD	0.0313 J	0.0154	5.00	ng/kg	106		70-142		
123478-HxCDD	0.0203 J	0.0109	5.00	ng/kg	99		70-164		
123678-HxCDD	0.0210 J	0.0113	5.00	ng/kg	98		76-134		
123789-HxCDD	0.0193 J	0.0115	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.261 J	0.00848	5.00	ng/kg	101		70-140		
OCDD	0.344 J	0.0157	10.0	ng/kg	94		78-144		
2378-TCDF	0.00740 U	0.00740	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0241 J	0.00706	5.00	ng/kg	104		80-134		
23478-PeCDF	0.0552 J	0.00754	5.00	ng/kg	98		68-160		
123478-HxCDF	0.0285 J	0.00668	5.00	ng/kg	100		72-134		
123678-HxCDF	0.0110 J	0.00599	5.00	ng/kg	100		84-130		
123789-HxCDF	0.0109 J	0.00627	5.00	ng/kg	100		78-130		
234678-HxCDF	0.0164 J	0.00628	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0542 J	0.00305	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0339 J	0.00560	5.00	ng/kg	97		78-138		
OCDF	0.169 J	0.0132	10.0	ng/kg	94		63-170		
Batch number: 12157002	Sample number(s): 6665311								
2378-TCDD	0.0264 U	0.0264	1.00	ng/kg	106		67-158		
12378-PeCDD	0.0590 J	0.0205	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0281 J	0.0143	5.00	ng/kg	95		70-164		
123678-HxCDD	0.0302 J	0.0152	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0554 J	0.0147	5.00	ng/kg	99		64-162		
1234678-HpCDD	0.282 J	0.0196	5.00	ng/kg	97		70-140		
OCDD	0.439 J	0.0193	10.0	ng/kg	93		78-144		
2378-TCDF	0.0210 J	0.0195	1.00	ng/kg	99		75-158		
12378-PeCDF	0.0309 J	0.0127	5.00	ng/kg	95		80-134		
23478-PeCDF	0.0616 J	0.0134	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0574 J	0.0125	5.00	ng/kg	93		72-134		
123678-HxCDF	0.0396 J	0.0106	5.00	ng/kg	91		84-130		
123789-HxCDF	0.0449 J	0.0139	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0481 J	0.0111	5.00	ng/kg	94		70-156		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/07/12 at 10:54 AM

Group Number: 1311345

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234678-HpCDF	0.100 J	0.00746	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0931 J	0.0161	5.00	ng/kg	95		78-138		
OCDF	0.211 J	0.0251	10.0	ng/kg	95		63-170		

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 12156162401A	Sample number(s): 6665297-6665302 BKG: 6665298								
Moisture CDM						11.1	11.1	0	20
Moisture CDM						11.1	11.1	0	20
Moisture Duplicate CDM						11.1	11.1	0	20
Batch number: 12156162401B	Sample number(s): 6665303-6665318 BKG: 6665303								
Moisture CDM						11.4	11.5	1	20
Batch number: 12146002	Sample number(s): 6665297-6665310,6665312-6665318 UNSPK: 6665298								
2378-TCDD	105	108	67-158	3	25				
12378-PeCDD	104	105	70-142	0	25				
123478-HxCDD	99	99	70-164	0	25				
123678-HxCDD	97	96	76-134	1	25				
123789-HxCDD	105	105	64-162	1	25				
1234678-HpCDD	103	103	70-140	1	25				
OCDD	94	96	78-144	1	25				
2378-TCDF	97	97	75-158	1	25				
12378-PeCDF	103	104	80-134	0	25				
23478-PeCDF	96	97	68-160	0	25				
123478-HxCDF	99	99	72-134	2	25				
123678-HxCDF	101	100	84-130	1	25				
123789-HxCDF	100	102	78-130	1	25				
234678-HxCDF	95	96	70-156	0	25				
1234678-HpCDF	91	93	82-122	1	25				
1234789-HpCDF	97	97	78-138	0	25				
OCDF	95	94	63-170	1	25				

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a. Dioxins/Furans 10-15 day

Batch number: 12146002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6665297	83	95	88	94	87	95
6665298	84	101	89	93	88	96
6665299	81	96	90	92	90	97
6665300	85	102	93	94	92	102
6665301	86	100	89	95	89	85

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/07/12 at 10:54 AM

Group Number: 1311345

### Surrogate Quality Control

6665302	84	96	89	93	89	100
6665303	83	98	90	95	89	84
6665304	93	108	90	99	98	102
6665305	84	89	86	91	87	91
6665306	77	91	81	94	82	73
6665307	78	83	70	79	74	82
6665308	81	51	37	40	47	66
6665309	82	86	82	91	82	75
6665310	70	54	49	60	53	54
6665312	78	52	50	63	49	46
6665313	83	93	86	108	88	72
6665314	88	97	73	85	90	88
6665315	87	95	55	68	87	85
6665316	80	87	79	96	79	62
6665317	74	80	58	81	77	56
6665318	76	85	80	95	80	76
Blank	87	100	101	109	100	110
MS	81	96	90	92	90	97
MSD	85	102	93	94	92	102
OPR	79	88	86	92	84	98

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD

6665297	104	68	66	86	85	81
6665298	102	77	72	92	86	82
6665299	95	75	71	87	86	81
6665300	97	79	73	92	88	85
6665301	109	69	60	91	85	84
6665302	100	73	70	87	84	82
6665303	102	70	58	89	87	82
6665304	111	78	72	99	95	93
6665305	103	72	65	86	88	85
6665306	111	57	45	86	82	81
6665307	91	56	45	78	74	69
6665308	41	40	37	49	42	40
6665309	101	56	47	80	80	76
6665310	76	30	20	55	53	49
6665312	81	27	19	57	55	52
6665313	146*	51	35	94	98	94
6665314	90	76	70	94	91	87
6665315	77	71	59	90	84	84
6665316	124	48	34	88	86	82
6665317	104	46	35	84	84	82
6665318	122	59	47	84	85	82
Blank	127	77	61	94	98	96
MS	95	75	71	87	86	81
MSD	97	79	73	92	88	85
OPR	110	70	54	83	85	81

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	

6665297	83	77	79	88	102	
6665298	84	86	80	92	107	
6665299	84	82	79	88	100	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/07/12 at 10:54 AM

Group Number: 1311345

### Surrogate Quality Control

6665300	87	88	79	93	104
6665301	84	86	76	90	109
6665302	86	79	80	91	101
6665303	84	88	71	89	107
6665304	94	93	86	99	117
6665305	87	84	79	87	96
6665306	82	87	71	82	104
6665307	75	72	59	82	93
6665308	48	42	39	76	56
6665309	80	72	65	84	95
6665310	57	49	39	68	67
6665312	57	51	47	68	67
6665313	96	105	84	83	115
6665314	90	85	81	94	101
6665315	88	85	75	91	103
6665316	85	85	72	82	109
6665317	84	82	75	75	100
6665318	84	85	77	76	99
Blank	98	90	75	91	111
MS	84	82	79	88	100
MSD	87	88	79	93	104
OPR	83	82	67	82	98

Limits: 28-130      23-140      17-157      24-169      24-185

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12157002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6665311	80	91	82	84	84	84
Blank	79	85	74	87	78	70
OPR	71	74	66	83	69	57

Limits: 25-164      21-178      26-152      26-123      28-136      29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6665311	98	73	66	92	86	86
Blank	112	57	50	91	88	88
OPR	108	48	41	86	83	83

Limits: 28-143      26-138      17-157      25-181      32-141      28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6665311	85	87	79	82	96
Blank	88	87	81	73	97
OPR	83	82	74	63	89

Limits: 28-130      23-140      17-157      24-169      24-185

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

13013

1311345

CG05297-318

# SSFL Phase 3 Chain of Custody

CDM Smith

No:

20120523-01

Date Shipped: 5/23/2012

Contact Name: Pam Hartman

Cooler #:

Carrier Name: FedEx

Contact Phone: (818)466-8007

Lab:

Lancaster

Airbill No:

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 3000/9056	SVC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	PCBS/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex C 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EH1 8015	Glycols 8015	Alcohols 8015	Terpenols 8015	Nitrates 3000/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Organotin	Methyl Mercury 1630	Other Analysis/Notes				
SL-727-SA5C-SB-0.0-0.5	5/21/12 10:29	SO	None	1 - 4 oz glass	10 day																																			
SL-727-SA5C-SB-4.0-5.0MS	5/21/12 10:32	SO	None	1 - 4 oz glass	10 day																																			MS/MSD
SL-734-SA5C-SB-0.0-0.5	5/21/12 09:29	SO	None	1 - 4 oz glass	10 day																																			
SL-734-SA5C-SB-4.0-5.0	5/21/12 09:33	SO	None	1 - 4 oz glass	10 day																																			
SL-734-SA5C-SB-9.0-10.0	5/21/12 09:38	SO	None	1 - 4 oz glass	10 day																																			
SL-1027-SA5C-SB-4.0-5.0	5/21/12 11:00	SO	None	1 - 4 oz glass	10 day																																			
SL-682-SA5C-SB-0.0-0.5	5/22/12 14:50	SO	None	1 - 4 oz glass	10 day																																			
SL-682-SA5C-SB-4.0-5.0	5/22/12 14:54	SO	None	1 - 4 oz glass	10 day																																			
SL-682-SA5C-SB-9.0-10.0	5/22/12 14:58	SO	None	1 - 4 oz glass	10 day																																			
SL-730-SA5C-SB-0.0-0.5	5/22/12 08:13	SO	None	1 - 4 oz glass	10 day																																			
SL-730-SA5C-SB-4.0-5.0	5/22/12 08:19	SO	None	1 - 4 oz glass	10 day																																			
SL-730-SA5C-SB-9.0-10.0	5/22/12 08:23	SO	None	1 - 4 oz glass	10 day																																			
SL-731-SA5C-SB-0.0-0.5	5/22/12 10:48	SO	None	1 - 4 oz glass	10 day																																			
SL-731-SA5C-SB-4.0-5.0	5/22/12 10:54	SO	None	1 - 4 oz glass	10 day																																			
SL-731-SA5C-SB-9.0-10.0	5/22/12 10:57	SO	None	1 - 4 oz glass	10 day																																			
SL-732-SA5C-SB-5.0-6.0	5/22/12 13:25	SO	None	1 - 4 oz glass	10 day																																			
SL-732-SA5C-SB-10.5-11.5	5/22/12 13:30	SO	None	1 - 4 oz glass	10 day																																			
SL-733-SA5C-SB-0.0-0.5	5/22/12 09:23	SO	None	1 - 4 oz glass	10 day																																			
SL-733-SA5C-SB-4.0-5.0	5/22/12 09:42	SO	None	1 - 4 oz glass	10 day																																			
SL-733-SA5C-SB-9.0-10.0	5/22/12 09:58	SO	None	1 - 4 oz glass	10 day																																			
SL-727-SA5C-SB-9.0-10.0	5/21/12 10:36	SO	None	1 - 4 oz glass	10 day																																			
SL-674-SA5C-SB-0.0-0.5	5/23/12 10:59	SO	None	1 - 4 oz glass	10 day																																			
SL-674-SA5C-SB-2.5-3.5	5/23/12 11:02	SO	None	1 - 4 oz glass	10 day																																			
SL-675-SA5C-SB-0.0-0.5	5/23/12 10:26	SO	None	1 - 4 oz glass	10 day																																			
SL-675-SA5C-SB-0.5-1.5	5/23/12 10:28	SO	None	1 - 4 oz glass	10 day																																			
SL-678-SA5C-SB-0.0-0.5	5/23/12 09:42	SO	None	1 - 4 oz glass	10 day																																			
SL-678-SA5C-SB-2.5-3.5	5/23/12 09:46	SO	None	1 - 4 oz glass	10 day																																			
SL-679-SA5C-SB-0.5-1.5	5/23/12 09:23	SO	None	1 - 4 oz glass	10 day																																			
SL-681-SA5C-SB-4.0-5.0	5/23/12 07:59	SO	None	1 - 4 oz glass	10 day																																			
SL-681-SA5C-SB-7.5-8.5	5/23/12 08:05	SO	None	1 - 4 oz glass	10 day																																			

Revised  
 EOC Original COC  
 N/A 5/25/12  
 N/A 5/25/12

13013 1311345 0005297-318

# SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 5/23/2012

Carrier Name: FedEx

Airbill No:

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No: 20120523-01

Cooler #:   
 Lab: Lancaster

Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Other Analysis/Notes
						Methyl Mercury 1630 Organotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Ethers 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-GR0 8015 TPH-EH 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCBs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020

Special instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	5/23/12									
									<i>[Signature]</i>	5/23/12	over

**Nicole Maljovec**

---

**From:** Hartman, Pamela [HartmanPM@cdmsmith.com]  
**Sent:** Thursday, May 24, 2012 2:04 PM  
**To:** Nicole Maljovec  
**Cc:** Burgesser, Todd  
**Subject:** samples from 5/23/12  
**Attachments:** Lancaster 052312 COC.pdf

Hi Nicole

Could you please remove the following samples from the COC and not analyze them? I have also attached an updated COC.

SL-679-SA5C-SB-0.5-1.5  
SL-675-SA5C-SB-0.5-1.5

Thanks!

Pam

# SSFL Phase 3 Chain of Custody

CDM Smith  
 DateShipped: 5/23/2012  
 CarrierName: FedEx  
 AirbillNo:

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120523-01  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 2470 (Water)	Fluoride 300.0/9056	SIOC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	Hex Cr. 7196/7199	Herbicides 8151	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GR0 8015	TPH-LEH 8015	Glycols 8015	Alcohol 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Oranofin	Methyl Mercury 1630	Other Analysis/Notes		
																																		MS/MSD		
SL-727-SA5C-SB-0.0-0.5	5/21/12 10:29	SO	None	1 - 4 oz glass	10 day																													Revised COC NM 5/25/12		
SL-727-SA5C-SB-4.0-5.0MS	5/21/12 10:32	SO	None	1 - 4 oz glass	10 day																														MS/MSD	
SL-734-SA5C-SB-0.0-0.5	5/21/12 09:29	SO	None	1 - 4 oz glass	10 day																															
SL-734-SA5C-SB-4.0-5.0	5/21/12 09:33	SO	None	1 - 4 oz glass	10 day																															
SL-734-SA5C-SB-9.0-10.0	5/21/12 09:38	SO	None	1 - 4 oz glass	10 day																															
SL-1027-SA5C-SB-4.0-5.0	5/21/12 11:00	SO	None	1 - 4 oz glass	10 day																															
SL-682-SA5C-SB-0.0-0.5	5/22/12 14:50	SO	None	1 - 4 oz. glass	10 day																															
SL-682-SA5C-SB-4.0-5.0	5/22/12 14:54	SO	None	1 - 4 oz. glass	10 day																															
SL-682-SA5C-SB-9.0-10.0	5/22/12 14:58	SO	None	1 - 4 oz. glass	10 day																															
SL-730-SA5C-SB-0.0-0.5	5/22/12 08:13	SO	None	1 - 4 oz glass	10 day																															
SL-730-SA5C-SB-4.0-5.0	5/22/12 08:19	SO	None	1 - 4 oz glass	10 day																															
SL-730-SA5C-SB-9.0-10.0	5/22/12 08:23	SO	None	1 - 4 oz glass	10 day																															
SL-731-SA5C-SB-0.0-0.5	5/22/12 10:48	SO	None	1 - 4 oz glass	10 day																															
SL-731-SA5C-SB-4.0-5.0	5/22/12 10:54	SO	None	1 - 4 oz glass	10 day																															
SL-731-SA5C-SB-9.0-10.0	5/22/12 10:57	SO	None	1 - 4 oz glass	10 day																															
SL-732-SA5C-SB-5.0-6.0	5/22/12 13:25	SO	None	1 - 4 oz. glass	10 day																															
SL-732-SA5C-SB-10.5-11.5	5/22/12 13:30	SO	None	1 - 4 oz. glass	10 day																															
SL-733-SA5C-SB-0.0-0.5	5/22/12 09:23	SO	None	1 - 4 oz. glass	10 day									X																						
SL-733-SA5C-SB-4.0-5.0	5/22/12 09:42	SO	None	1 - 4 oz. glass	10 day									X																						
SL-733-SA5C-SB-9.0-10.0	5/22/12 09:58	SO	None	1 - 4 oz. glass	10 day									X																						
SL-727-SA5C-SB-9.0-10.0	5/21/12 10:36	SO	None	1 - 4 oz glass	10 day									X																						
SL-674-SA5C-SB-0.0-0.5	5/23/12 10:59	SO	None	1 - 4 oz glass	10 day									X																						
SL-674-SA5C-SB-2.5-3.5	5/23/12 11:02	SO	None	1 - 4 oz glass	10 day									X																						
SL-675-SA5C-SB-0.0-0.5	5/23/12 10:26	SO	None	1 - 4 oz glass	10 day									X																						
SL-678-SA5C-SB-0.0-0.5	5/23/12 09:42	SO	None	1 - 4 oz glass	10 day									X																						
SL-678-SA5C-SB-2.5-3.5	5/23/12 09:46	SO	None	1 - 4 oz glass	10 day									X																						
SL-681-SA5C-SB-4.0-5.0	5/23/12 07:59	SO	None	1 - 4 oz glass	10 day									X																						
SL-681-SA5C-SB-7.5-8.5	5/23/12 08:05	SO	None	1 - 4 oz glass	10 day									X																						

13013

1311345

6665297-318

# SSFL Phase 3 Chain of Custody

CDM Smith  
 DateShipped: 5/23/2012  
 CarrierName: FedEx  
 AirbillNo:

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120523-01  
 Cooler #:  
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methil Mercury 1630	Oranotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-FH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Revised COC NUM 5/25/12
																																					Other Analysis/Notes

Special Instructions: \_\_\_\_\_

SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
<del> </del>											
<del> </del>											
<del> </del>											
<del> </del>											
<del> </del>											
									John Davernport 5/24/12 0945		
									AMO 5/24/12		

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

May 31, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 05/25/2012  
Group Number: 1311543  
SDG: PT007  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

Client Sample Description

EB-052412 Water

Lancaster Labs (LLI) #

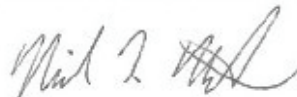
6666936

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
1 COPY TO CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259



Lancaster  
Laboratories

# ***Analysis Report***

---

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

Sample Description: **EB-052412 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB**

LLI Sample # **WW 6666936**  
 LLI Group # **1311543**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 05/24/2012 15:00

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 05/31/2012 21:07

Suite 400

Fairfax VA 22030

EB-24 SDG#: PT007-09EB\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
04144	20b Formaldehyde 8315A	50-00-0	10 U	10	50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	20b Formaldehyde 8315A	SW-846 8315A	1	121500021A	05/31/2012 16:56	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	121500021A	05/31/2012 09:00	Joseph S Feister	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 05/31/12 at 09:07 PM

Group Number: 1311543

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121500021A 20b Formaldehyde 8315A	10	U 10.	50	ug/l	92	94	69-130	2	30

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20b Formaldehyde 8315A  
Batch number: 121500021A  
Butyraldehyde

---

6666936	80
Blank	95
LCS	92
LCSD	89

---

Limits: 45-145

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

13013 1311543 6666936

# SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 5/24/2012  
 Carrier Name: FedEx  
 Airbill No: 7984 3693 6083

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120524-01  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohol 8015	Glycols 8015	TPH-EH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCS 8260	Pesticides 8081	Herbicides 8151	Hex Cl 7196/7199	PH 9045 (Water)	PH 9045 (Soil)	Perchlorate Confirn 6850/6860	Perchlorate 314.0/331	PCBS/PCS 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHS 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes		
SL-671-SA5C-SB-2.0-3.0	5/23/12 13:38	SO	None	1 - 4 oz glass	10 day																																		
SL-675-SA5C-SB-0.0-0.5	5/23/12 10:26	SO	None	1 - 8 oz glass	10 day																																		
SL-676-SA5C-SB-4.0-5.0	5/23/12 14:43	SO	None	1 - 8 oz glass	10 day																																		
SL-976-SA5C-SB-4.0-5.0	5/23/12 15:11	SO	None	1 - 8 oz glass	10 day																																		
SL-672-SA5C-SB-0.0-0.5	5/24/12 09:50	SO	None	1 - 4 oz glass	10 day																																		
SL-672-SA5C-SB-4.0-5.0	5/24/12 09:55	SO	None	1 - 4 oz glass	10 day																																		
SL-694-SA5C-SB-0.0-0.5	5/24/12 11:03	SO	None	1 - 4 oz glass	10 day																																		
SL-694-SA5C-SB-4.0-5.0	5/24/12 11:08	SO	None	1 - 4 oz glass	10 day																																		
SL-694-SA5C-SB-9.0-10.0	5/24/12 11:13	SO	None	1 - 4 oz glass	10 day																																		
SL-704-SA5C-SB-0.0-0.5	5/24/12 08:46	SO	None	1 - 4 oz glass	10 day																																		
SL-704-SA5C-SB-4.0-5.0	5/24/12 08:52	SO	None	1 - 4 oz glass	10 day																																		
SL-704-SA5C-SB-9.0-10.0	5/24/12 08:57	SO	None	1 - 4 oz glass	10 day																																		
EB-052412	5/24/12 15:00	WQ	None	2 - 1 L Amber	10 day																																	X	
SL-677-SA5C-SB-0.0-0.5	5/24/12 14:23	SO	None	1 - 4 oz glass	10 day																																		
SL-677-SA5C-SB-4.0-5.0	5/24/12 14:33	SO	None	1 - 4 oz glass	10 day																																		
SL-705-SA5C-SB-0.0-0.5	5/24/12 13:40	SO	None	1 - 4 oz glass	10 day																																		
SL-705-SA5C-SB-4.0-5.0	5/24/12 13:43	SO	None	1 - 4 oz glass	10 day																																		
SL-705-SA5C-SB-9.0-10.0	5/24/12 13:48	SO	None	1 - 4 oz glass	10 day																																		

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	5/24/12									
									<i>[Signature]</i>	5/28/12	09:15

Sampler: *[Signature]*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 07, 2012

Project: SSFL Phase 3 Sampling

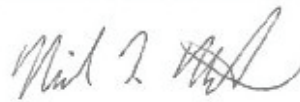
Submittal Date: 05/25/2012  
Group Number: 1311544  
SDG: PH009  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-671-SA5C-SB-2.0-3.0 Soil	6666937
SL-675-SA5C-SB-0.0-0.5 Soil	6666938
SL-676-SA5C-SB-4.0-5.0 Soil	6666939
SL-976-SA5C-SB-4.0-5.0 Soil	6666940
SL-672-SA5C-SB-0.0-0.5 Soil	6666941
SL-672-SA5C-SB-4.0-5.0 Soil	6666942
SL-694-SA5C-SB-0.0-0.5 Soil	6666943
SL-694-SA5C-SB-4.0-5.0 Soil	6666944
SL-694-SA5C-SB-9.0-10.0 Soil	6666945
SL-704-SA5C-SB-0.0-0.5 Soil	6666946
SL-704-SA5C-SB-4.0-5.0 Soil	6666947
SL-704-SA5C-SB-9.0-10.0 Soil	6666948
EB-052412 Water	6666949
SL-677-SA5C-SB-0.0-0.5 Soil	6666950
SL-677-SA5C-SB-4.0-5.0 Soil	6666951
SL-705-SA5C-SB-0.0-0.5 Soil	6666952
SL-705-SA5C-SB-4.0-5.0 Soil	6666953
SL-705-SA5C-SB-9.0-10.0 Soil	6666954

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-671-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-671-SA5C-SB

LLI Sample # SW 666937  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 13:38

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

Suite 400

Fairfax VA 22030

67120 SDG#: PH009-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	6.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-671-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-671-SA5C-SB

LLI Sample # SW 6666937  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 13:38

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

Suite 400

Fairfax VA 22030

67120 SDG#: PH009-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			<b>ng/kg</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0766	JBQ	0.0211	1.07	1
11031	12378-PeCDD	40321-76-4	0.835	J	0.0400	5.33	1
11031	123478-HxCDD	39227-28-6	2.24	JB	0.0353	5.33	1
11031	123678-HxCDD	57653-85-7	8.08		0.0380	5.33	1
11031	123789-HxCDD	19408-74-3	3.92	JB	0.0363	5.33	1
11031	1234678-HpCDD	35822-46-9	263	B	0.0998	5.33	1
11031	OCDD	3268-87-9	2,290	B	0.0512	10.7	1
11031	2378-TCDF	51207-31-9	0.217	JB	0.0790	1.07	1
11031	12378-PeCDF	57117-41-6	1.24	JB	0.0423	5.33	1
11031	23478-PeCDF	57117-31-4	0.378	JB	0.0429	5.33	1
11031	123478-HxCDF	70648-26-9	1.46	JB	0.0361	5.33	1
11031	123678-HxCDF	57117-44-9	0.994	JB	0.0313	5.33	1
11031	123789-HxCDF	72918-21-9	0.216	JB	0.0345	5.33	1
11031	234678-HxCDF	60851-34-5	1.21	JB	0.0335	5.33	1
11031	1234678-HpCDF	67562-39-4	21.8	B	0.0278	5.33	1
11031	1234789-HpCDF	55673-89-7	1.80	JB	0.0437	5.33	1
11031	OCDF	39001-02-0	51.1	B	0.0249	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	70	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-671-SA5C-SB-2.0-3.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-671-SA5C-SB

LLI Sample # SW 6666937  
 LLI Group # 1311544  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 13:38

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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67120 SDG#: PH009-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-671-SA5C-SB-2.0-3.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-671-SA5C-SB

LLI Sample # SW 666937  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 13:38

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

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Fairfax VA 22030

67120 SDG#: PH009-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/02/2012 00:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-675-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-675-SA5C-SB

LLI Sample # SW 6666938  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 10:26

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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67500 SDG#: PH009-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-675-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-675-SA5C-SB

LLI Sample # SW 6666938  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 10:26

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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67500 SDG#: PH009-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0332	JB	0.0181	1.09	1
11031	12378-PeCDD	40321-76-4	0.123	J	0.0208	5.43	1
11031	123478-HxCDD	39227-28-6	0.226	JB	0.0298	5.43	1
11031	123678-HxCDD	57653-85-7	0.501	J	0.0305	5.43	1
11031	123789-HxCDD	19408-74-3	0.354	JB	0.0299	5.43	1
11031	1234678-HpCDD	35822-46-9	13.6	B	0.0317	5.43	1
11031	OCDD	3268-87-9	142	B	0.0199	10.9	1
11031	2378-TCDF	51207-31-9	0.100	JB	0.0331	1.09	1
11031	12378-PeCDF	57117-41-6	0.325	JB	0.0243	5.43	1
11031	23478-PeCDF	57117-31-4	0.171	JB	0.0233	5.43	1
11031	123478-HxCDF	70648-26-9	0.305	JB	0.0221	5.43	1
11031	123678-HxCDF	57117-44-9	0.136	JB	0.0219	5.43	1
11031	123789-HxCDF	72918-21-9	0.0588	JB	0.0194	5.43	1
11031	234678-HxCDF	60851-34-5	0.166	JB	0.0185	5.43	1
11031	1234678-HpCDF	67562-39-4	1.70	JB	0.0134	5.43	1
11031	1234789-HpCDF	55673-89-7	0.172	JB	0.0160	5.43	1
11031	OCDF	39001-02-0	2.97	JB	0.0172	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	93	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	75	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-675-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-675-SA5C-SB

LLI Sample # SW 6666938  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 10:26

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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67500 SDG#: PH009-02

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-675-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-675-SA5C-SB

LLI Sample # SW 666938  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 10:26

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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67500 SDG#: PH009-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/02/2012 01:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-676-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-676-SA5C-SB

LLI Sample # SW 6666939  
 LLI Group # 1311544  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 14:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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67640 SDG#: PH009-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-676-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-676-SA5C-SB

LLI Sample # SW 6666939  
LLI Group # 1311544  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/23/2012 14:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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67640 SDG#: PH009-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0218 JB	0.0178	1.11	1
11031	12378-PeCDD	40321-76-4	0.0942 JQ	0.0163	5.57	1
11031	123478-HxCDD	39227-28-6	0.103 JB	0.0246	5.57	1
11031	123678-HxCDD	57653-85-7	0.240 J	0.0272	5.57	1
11031	123789-HxCDD	19408-74-3	0.170 JB	0.0247	5.57	1
11031	1234678-HpCDD	35822-46-9	4.74 JB	0.0255	5.57	1
11031	OCDD	3268-87-9	50.3 B	0.0242	11.1	1
11031	2378-TCDF	51207-31-9	0.0200 JB	0.0169	1.11	1
11031	12378-PeCDF	57117-41-6	0.0794 JB	0.0125	5.57	1
11031	23478-PeCDF	57117-31-4	0.0574 JB	0.0114	5.57	1
11031	123478-HxCDF	70648-26-9	0.0685 JB	0.0165	5.57	1
11031	123678-HxCDF	57117-44-9	0.0626 JB	0.0159	5.57	1
11031	123789-HxCDF	72918-21-9	0.0188 JB	0.0154	5.57	1
11031	234678-HxCDF	60851-34-5	0.0736 JB	0.0142	5.57	1
11031	1234678-HpCDF	67562-39-4	0.662 JB	0.0164	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0412 JB	0.0187	5.57	1
11031	OCDF	39001-02-0	1.41 JB	0.0201	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	69	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-676-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-676-SA5C-SB

LLI Sample # SW 6666939  
 LLI Group # 1311544  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 14:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

Suite 400

Fairfax VA 22030

67640 SDG#: PH009-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-676-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-676-SA5C-SB

LLI Sample # SW 6666939  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 14:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

Suite 400

Fairfax VA 22030

67640 SDG#: PH009-03BKG

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/02/2012 02:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-976-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-976-SA5C-SB

LLI Sample # SW 6666940  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 15:11

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

Suite 400

Fairfax VA 22030

97640 SDG#: PH009-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-976-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-976-SA5C-SB

LLI Sample # SW 6666940  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 15:11

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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97640 SDG#: PH009-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			<b>ng/kg</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.114	JB	0.0199	1.10	1
11031	12378-PeCDD	40321-76-4	0.281	J	0.0234	5.52	1
11031	123478-HxCDD	39227-28-6	0.157	JB	0.0252	5.52	1
11031	123678-HxCDD	57653-85-7	0.274	J	0.0270	5.52	1
11031	123789-HxCDD	19408-74-3	0.211	JB	0.0258	5.52	1
11031	1234678-HpCDD	35822-46-9	3.51	JB	0.0278	5.52	1
11031	OCDD	3268-87-9	33.3	B	0.0208	11.0	1
11031	2378-TCDF	51207-31-9	0.102	JB	0.0152	1.10	1
11031	12378-PeCDF	57117-41-6	0.335	JB	0.0160	5.52	1
11031	23478-PeCDF	57117-31-4	0.237	JB	0.0142	5.52	1
11031	123478-HxCDF	70648-26-9	0.165	JB	0.0183	5.52	1
11031	123678-HxCDF	57117-44-9	0.162	JBQ	0.0186	5.52	1
11031	123789-HxCDF	72918-21-9	0.110	JB	0.0184	5.52	1
11031	234678-HxCDF	60851-34-5	0.101	JBQ	0.0175	5.52	1
11031	1234678-HpCDF	67562-39-4	0.558	JB	0.0141	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0867	JB	0.0161	5.52	1
11031	OCDF	39001-02-0	1.17	JB	0.0167	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	69	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-976-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-976-SA5C-SB

LLI Sample # SW 6666940  
 LLI Group # 1311544  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 15:11

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

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Fairfax VA 22030

97640 SDG#: PH009-04

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-976-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-976-SA5C-SB

LLI Sample # SW 6666940  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 15:11

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

Suite 400

Fairfax VA 22030

97640 SDG#: PH009-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/02/2012 06:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-672-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-672-SA5C-SB

LLI Sample # SW 666941  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 09:50

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

Suite 400

Fairfax VA 22030

67200 SDG#: PH009-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-672-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-672-SA5C-SB

LLI Sample # SW 666941  
LLI Group # 1311544  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/24/2012 09:50

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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Fairfax VA 22030

67200 SDG#: PH009-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.132	JB	0.0171	1.08	1
11031	12378-PeCDD	40321-76-4	0.535	J	0.0218	5.42	1
11031	123478-HxCDD	39227-28-6	0.694	JB	0.0299	5.42	1
11031	123678-HxCDD	57653-85-7	1.44	J	0.0335	5.42	1
11031	123789-HxCDD	19408-74-3	1.04	JB	0.0313	5.42	1
11031	1234678-HpCDD	35822-46-9	26.4	B	0.0453	5.42	1
11031	OCDD	3268-87-9	232	B	0.0237	10.8	1
11031	2378-TCDF	51207-31-9	0.236	JB	0.0338	1.08	1
11031	12378-PeCDF	57117-41-6	0.751	JB	0.0285	5.42	1
11031	23478-PeCDF	57117-31-4	0.693	JB	0.0249	5.42	1
11031	123478-HxCDF	70648-26-9	0.614	JB	0.0237	5.42	1
11031	123678-HxCDF	57117-44-9	0.464	JB	0.0233	5.42	1
11031	123789-HxCDF	72918-21-9	0.311	JB	0.0218	5.42	1
11031	234678-HxCDF	60851-34-5	0.497	JB	0.0204	5.42	1
11031	1234678-HpCDF	67562-39-4	5.71	B	0.0192	5.42	1
11031	1234789-HpCDF	55673-89-7	0.438	JB	0.0232	5.42	1
11031	OCDF	39001-02-0	9.19	JB	0.0181	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	69	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-672-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-672-SA5C-SB

LLI Sample # SW 666941  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 09:50

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Submitted: 05/25/2012 09:15

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67200 SDG#: PH009-05

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-672-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-672-SA5C-SB

LLI Sample # SW 666941  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 09:50

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67200 SDG#: PH009-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/02/2012 07:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-672-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-672-SA5C-SB

LLI Sample # SW 666942  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 09:55

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67240 SDG#: PH009-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-672-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-672-SA5C-SB

LLI Sample # SW 6666942  
LLI Group # 1311544  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/24/2012 09:55

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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67240 SDG#: PH009-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0403 JB	0.0182	1.13	1
11031	12378-PeCDD	40321-76-4	0.0730 J	0.0157	5.65	1
11031	123478-HxCDD	39227-28-6	0.0506 JB	0.0231	5.65	1
11031	123678-HxCDD	57653-85-7	0.182 J	0.0238	5.65	1
11031	123789-HxCDD	19408-74-3	0.150 JB	0.0237	5.65	1
11031	1234678-HpCDD	35822-46-9	1.74 JB	0.0231	5.65	1
11031	OCDD	3268-87-9	13.4 B	0.0313	11.3	1
11031	2378-TCDF	51207-31-9	0.0370 JB	0.0118	1.13	1
11031	12378-PeCDF	57117-41-6	0.0691 JB	0.00998	5.65	1
11031	23478-PeCDF	57117-31-4	0.113 JB	0.00924	5.65	1
11031	123478-HxCDF	70648-26-9	0.0604 JB	0.0125	5.65	1
11031	123678-HxCDF	57117-44-9	0.0512 JB	0.0120	5.65	1
11031	123789-HxCDF	72918-21-9	0.0529 JB	0.0119	5.65	1
11031	234678-HxCDF	60851-34-5	0.0578 JBQ	0.0107	5.65	1
11031	1234678-HpCDF	67562-39-4	0.271 JB	0.0167	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0488 JBQ	0.0188	5.65	1
11031	OCDF	39001-02-0	0.531 JB	0.0218	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	68	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-672-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-672-SA5C-SB

LLI Sample # SW 6666942  
 LLI Group # 1311544  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 09:55

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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67240 SDG#: PH009-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-672-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-672-SA5C-SB

LLI Sample # SW 6666942  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 09:55

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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Fairfax VA 22030

67240 SDG#: PH009-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/02/2012 08:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-694-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-694-SA5C-SB

LLI Sample # SW 6666943  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 11:03

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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69400 SDG#: PH009-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-694-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-694-SA5C-SB

LLI Sample # SW 6666943  
LLI Group # 1311544  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/24/2012 11:03

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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69400 SDG#: PH009-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0173	U	0.0173	1.15	1
11031	12378-PeCDD	40321-76-4	0.0236	J	0.0137	5.73	1
11031	123478-HxCDD	39227-28-6	0.0311	JBQ	0.0134	5.73	1
11031	123678-HxCDD	57653-85-7	0.0520	JQ	0.0146	5.73	1
11031	123789-HxCDD	19408-74-3	0.0728	JB	0.0140	5.73	1
11031	1234678-HpCDD	35822-46-9	0.562	JB	0.0245	5.73	1
11031	OCDD	3268-87-9	2.81	JB	0.0374	11.5	1
11031	2378-TCDF	51207-31-9	0.0199	JB	0.0133	1.15	1
11031	12378-PeCDF	57117-41-6	0.0196	JBQ	0.00841	5.73	1
11031	23478-PeCDF	57117-31-4	0.0500	JB	0.00824	5.73	1
11031	123478-HxCDF	70648-26-9	0.0277	JB	0.00850	5.73	1
11031	123678-HxCDF	57117-44-9	0.0260	JB	0.00800	5.73	1
11031	123789-HxCDF	72918-21-9	0.0345	JB	0.00892	5.73	1
11031	234678-HxCDF	60851-34-5	0.0264	JBQ	0.00685	5.73	1
11031	1234678-HpCDF	67562-39-4	0.0913	JB	0.0112	5.73	1
11031	1234789-HpCDF	55673-89-7	0.0367	JB	0.0160	5.73	1
11031	OCDF	39001-02-0	0.160	JB	0.0292	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-694-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-694-SA5C-SB

LLI Sample # SW 6666943  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 11:03

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

Suite 400

Fairfax VA 22030

69400 SDG#: PH009-07

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-694-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-694-SA5C-SB

LLI Sample # SW 6666943  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 11:03

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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69400 SDG#: PH009-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/02/2012 09:36	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-694-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-694-SA5C-SB

LLI Sample # SW 666944  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 11:08

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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69440 SDG#: PH009-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-694-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-694-SA5C-SB

LLI Sample # SW 6666944  
LLI Group # 1311544  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/24/2012 11:08

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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69440 SDG#: PH009-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0215 JB	0.0178	1.08	1
11031	12378-PeCDD	40321-76-4	0.0393 JQ	0.0160	5.39	1
11031	123478-HxCDD	39227-28-6	0.0147 JB	0.0126	5.39	1
11031	123678-HxCDD	57653-85-7	0.0336 JQ	0.0132	5.39	1
11031	123789-HxCDD	19408-74-3	0.0277 JBQ	0.0126	5.39	1
11031	1234678-HpCDD	35822-46-9	0.343 JB	0.0184	5.39	1
11031	OCDD	3268-87-9	0.897 JB	0.0216	10.8	1
11031	2378-TCDF	51207-31-9	0.0106 U	0.0106	1.08	1
11031	12378-PeCDF	57117-41-6	0.0190 JB	0.00876	5.39	1
11031	23478-PeCDF	57117-31-4	0.0520 JB	0.00803	5.39	1
11031	123478-HxCDF	70648-26-9	0.0279 JB	0.00812	5.39	1
11031	123678-HxCDF	57117-44-9	0.0258 JB	0.00732	5.39	1
11031	123789-HxCDF	72918-21-9	0.0218 JBQ	0.00717	5.39	1
11031	234678-HxCDF	60851-34-5	0.0170 JB	0.00604	5.39	1
11031	1234678-HpCDF	67562-39-4	0.0621 JB	0.0104	5.39	1
11031	1234789-HpCDF	55673-89-7	0.0319 JB	0.0120	5.39	1
11031	OCDF	39001-02-0	0.109 JB	0.0161	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	69	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-694-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-694-SA5C-SB

**LLI Sample #** SW 6666944  
**LLI Group #** 1311544  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 11:08

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

Suite 400

Fairfax VA 22030

69440 SDG#: PH009-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-694-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-694-SA5C-SB

LLI Sample # SW 6666944  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 11:08

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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69440 SDG#: PH009-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/02/2012 10:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-694-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-694-SA5C-SB

LLI Sample # SW 6666945  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 11:13

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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69490 SDG#: PH009-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-694-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-694-SA5C-SB

LLI Sample # SW 666945  
LLI Group # 1311544  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/24/2012 11:13

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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69490 SDG#: PH009-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0282 JB	0.0239	1.13	1
11031	12378-PeCDD	40321-76-4	0.0294 JQ	0.0208	5.65	1
11031	123478-HxCDD	39227-28-6	0.0186 U	0.0186	5.65	1
11031	123678-HxCDD	57653-85-7	0.0687 J	0.0198	5.65	1
11031	123789-HxCDD	19408-74-3	0.0792 JB	0.0186	5.65	1
11031	1234678-HpCDD	35822-46-9	0.746 JB	0.0250	5.65	1
11031	OCDD	3268-87-9	3.52 JB	0.0248	11.3	1
11031	2378-TCDF	51207-31-9	0.0229 JBQ	0.0155	1.13	1
11031	12378-PeCDF	57117-41-6	0.0296 JB	0.0130	5.65	1
11031	23478-PeCDF	57117-31-4	0.0943 JB	0.0121	5.65	1
11031	123478-HxCDF	70648-26-9	0.0404 JB	0.0110	5.65	1
11031	123678-HxCDF	57117-44-9	0.0491 JB	0.0107	5.65	1
11031	123789-HxCDF	72918-21-9	0.0268 JB	0.0106	5.65	1
11031	234678-HxCDF	60851-34-5	0.0363 JB	0.0104	5.65	1
11031	1234678-HpCDF	67562-39-4	0.141 JB	0.0131	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0342 JBQ	0.0142	5.65	1
11031	OCDF	39001-02-0	0.253 JB	0.0203	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	73	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-694-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-694-SA5C-SB

LLI Sample # SW 6666945  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 11:13

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Submitted: 05/25/2012 09:15

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69490 SDG#: PH009-09

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-694-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-694-SA5C-SB

LLI Sample # SW 6666945  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 11:13

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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69490 SDG#: PH009-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/02/2012 11:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-704-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-704-SA5C-SB

LLI Sample # SW 6666946  
 LLI Group # 1311544  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 08:46

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70400 SDG#: PH009-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-704-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-704-SA5C-SB

LLI Sample # SW 6666946  
LLI Group # 1311544  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/24/2012 08:46

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70400 SDG#: PH009-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0375 JBQ	0.0183	1.12	1
11031	12378-PeCDD	40321-76-4	0.0341 JQ	0.0173	5.60	1
11031	123478-HxCDD	39227-28-6	0.0556 JBQ	0.0255	5.60	1
11031	123678-HxCDD	57653-85-7	0.306 JQ	0.0269	5.60	1
11031	123789-HxCDD	19408-74-3	0.188 JBQ	0.0244	5.60	1
11031	1234678-HpCDD	35822-46-9	16.5 B	0.0347	5.60	1
11031	OCDD	3268-87-9	201 B	0.0268	11.2	1
11031	2378-TCDF	51207-31-9	0.0294 JB	0.0164	1.12	1
11031	12378-PeCDF	57117-41-6	0.0467 JB	0.0117	5.60	1
11031	23478-PeCDF	57117-31-4	0.124 JB	0.0108	5.60	1
11031	123478-HxCDF	70648-26-9	0.0845 JB	0.0140	5.60	1
11031	123678-HxCDF	57117-44-9	0.0892 JB	0.0139	5.60	1
11031	123789-HxCDF	72918-21-9	0.0619 JB	0.0142	5.60	1
11031	234678-HxCDF	60851-34-5	0.0730 JB	0.0124	5.60	1
11031	1234678-HpCDF	67562-39-4	0.703 JB	0.0145	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0988 JB	0.0168	5.60	1
11031	OCDF	39001-02-0	1.72 JB	0.0182	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	90	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	94	32 - 141
13C12-123678-HxCDD	94	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	83	17 - 157
13C12-2378-TCDF	94	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	97	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	78	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-704-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-704-SA5C-SB

LLI Sample # SW 6666946  
 LLI Group # 1311544  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 08:46

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70400 SDG#: PH009-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-704-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-704-SA5C-SB

LLI Sample # SW 6666946  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 08:46

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

Suite 400

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70400 SDG#: PH009-10

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/02/2012 12:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-704-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-704-SA5C-SB

LLI Sample # SW 6666947  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 08:52

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70440 SDG#: PH009-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-704-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-704-SA5C-SB

LLI Sample # SW 6666947  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 08:52

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70440 SDG#: PH009-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0208 JBQ	0.0179	1.12	1
11031	12378-PeCDD	40321-76-4	0.0137 U	0.0137	5.61	1
11031	123478-HxCDD	39227-28-6	0.0322 JBQ	0.0153	5.61	1
11031	123678-HxCDD	57653-85-7	0.0312 J	0.0167	5.61	1
11031	123789-HxCDD	19408-74-3	0.0389 JB	0.0160	5.61	1
11031	1234678-HpCDD	35822-46-9	0.320 JB	0.0179	5.61	1
11031	OCDD	3268-87-9	0.718 JB	0.0257	11.2	1
11031	2378-TCDF	51207-31-9	0.0232 JB	0.0117	1.12	1
11031	12378-PeCDF	57117-41-6	0.0335 JBQ	0.00997	5.61	1
11031	23478-PeCDF	57117-31-4	0.0522 JB	0.00910	5.61	1
11031	123478-HxCDF	70648-26-9	0.0315 JBQ	0.00804	5.61	1
11031	123678-HxCDF	57117-44-9	0.0221 JB	0.00762	5.61	1
11031	123789-HxCDF	72918-21-9	0.0247 JB	0.00845	5.61	1
11031	234678-HxCDF	60851-34-5	0.0206 JB	0.00712	5.61	1
11031	1234678-HpCDF	67562-39-4	0.0697 JB	0.00899	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0253 JB	0.0115	5.61	1
11031	OCDF	39001-02-0	0.0974 JB	0.0175	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	69	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-704-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-704-SA5C-SB

LLI Sample # SW 6666947  
 LLI Group # 1311544  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 08:52

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Submitted: 05/25/2012 09:15

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70440 SDG#: PH009-11

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-704-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-704-SA5C-SB

LLI Sample # SW 6666947  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 08:52

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70440 SDG#: PH009-11

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### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/02/2012 13:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402B	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-704-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-704-SA5C-SB

LLI Sample # SW 6666948  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 08:57

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70490 SDG#: PH009-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-704-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-704-SA5C-SB

LLI Sample # SW 6666948  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 08:57

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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70490 SDG#: PH009-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0338 JB	0.0198	1.09	1
11031	12378-PeCDD	40321-76-4	0.134 J	0.0221	5.45	1
11031	123478-HxCDD	39227-28-6	0.0618 JB	0.0180	5.45	1
11031	123678-HxCDD	57653-85-7	0.0722 J	0.0195	5.45	1
11031	123789-HxCDD	19408-74-3	0.0970 JBQ	0.0179	5.45	1
11031	1234678-HpCDD	35822-46-9	0.354 JB	0.0183	5.45	1
11031	OCDD	3268-87-9	0.375 JB	0.0183	10.9	1
11031	2378-TCDF	51207-31-9	0.0518 JB	0.00999	1.09	1
11031	12378-PeCDF	57117-41-6	0.124 JB	0.00851	5.45	1
11031	23478-PeCDF	57117-31-4	0.116 JB	0.00892	5.45	1
11031	123478-HxCDF	70648-26-9	0.0723 JB	0.00904	5.45	1
11031	123678-HxCDF	57117-44-9	0.0635 JB	0.00740	5.45	1
11031	123789-HxCDF	72918-21-9	0.0797 JB	0.00820	5.45	1
11031	234678-HxCDF	60851-34-5	0.0467 JB	0.00712	5.45	1
11031	1234678-HpCDF	67562-39-4	0.0554 JBQ	0.00654	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0309 JBQ	0.00947	5.45	1
11031	OCDF	39001-02-0	0.0849 JB	0.0151	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	59	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

Sample Description: SL-704-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-704-SA5C-SB

LLI Sample # SW 6666948  
LLI Group # 1311544  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/24/2012 08:57

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70490 SDG#: PH009-12

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-704-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-704-SA5C-SB

LLI Sample # SW 6666948  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 08:57

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70490 SDG#: PH009-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/02/2012 14:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402B	06/04/2012 11:33	William C Schwebel	1

Sample Description: **EB-052412 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB**

LLI Sample # **WW 666949**  
 LLI Group # **1311544**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 05/24/2012 15:00

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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DEB24 SDG#: PH009-13EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.169 U	0.169	1.95	1
10915	12378-PeCDD	40321-76-4	0.304 JB	0.189	9.76	1
10915	123478-HxCDD	39227-28-6	0.145 U	0.145	9.76	1
10915	123678-HxCDD	57653-85-7	0.331 JB	0.151	9.76	1
10915	123789-HxCDD	19408-74-3	0.453 JBQ	0.147	9.76	1
10915	1234678-HpCDD	35822-46-9	3.26 JB	0.181	9.76	1
10915	OCDD	3268-87-9	5.01 JB	0.187	19.5	1
10915	2378-TCDF	51207-31-9	0.111 U	0.111	1.95	1
10915	12378-PeCDF	57117-41-6	0.183 JB	0.116	9.76	1
10915	23478-PeCDF	57117-31-4	0.544 JBQ	0.101	9.76	1
10915	123478-HxCDF	70648-26-9	0.267 JBQ	0.0876	9.76	1
10915	123678-HxCDF	57117-44-9	0.189 JB	0.0881	9.76	1
10915	123789-HxCDF	72918-21-9	0.0808 U	0.0808	9.76	1
10915	234678-HxCDF	60851-34-5	0.216 JB	0.0773	9.76	1
10915	1234678-HpCDF	67562-39-4	0.628 JB	0.0728	9.76	1
10915	1234789-HpCDF	55673-89-7	0.256 JBQ	0.0774	9.76	1
10915	OCDF	39001-02-0	0.794 JB	0.141	19.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	59	25 - 181
13C12-123478-HxCDD	59	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	56	28 - 130
13C12-1234678-HpCDD	57	23 - 140
13C12-OCDD	55	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	61	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	54	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

Sample Description: **EB-052412 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB**

LLI Sample # **WW 666949**  
 LLI Group # **1311544**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 05/24/2012 15:00

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DEB24 SDG#: PH009-13EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans day	10-15 EPA 1613B	1	12150002	05/31/2012 09:34	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12150002	05/29/2012 11:50	Ginelle L Haines	1

**Sample Description:** SL-677-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-677-SA5C-SB

LLI Sample # SW 666950  
 LLI Group # 1311544  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 14:23

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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67700 SDG#: PH009-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-677-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-677-SA5C-SB

LLI Sample # SW 666950  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 14:23

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Submitted: 05/25/2012 09:15

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67700 SDG#: PH009-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0760 JB	0.0177	1.13	1
11031	12378-PeCDD	40321-76-4	0.232 J	0.0167	5.64	1
11031	123478-HxCDD	39227-28-6	0.0904 JB	0.0196	5.64	1
11031	123678-HxCDD	57653-85-7	0.172 JQ	0.0203	5.64	1
11031	123789-HxCDD	19408-74-3	0.174 JB	0.0195	5.64	1
11031	1234678-HpCDD	35822-46-9	1.92 JB	0.0214	5.64	1
11031	OCDD	3268-87-9	17.0 B	0.0146	11.3	1
11031	2378-TCDF	51207-31-9	0.0763 JB	0.0148	1.13	1
11031	12378-PeCDF	57117-41-6	0.288 JB	0.0129	5.64	1
11031	23478-PeCDF	57117-31-4	0.237 JB	0.0131	5.64	1
11031	123478-HxCDF	70648-26-9	0.143 JB	0.0185	5.64	1
11031	123678-HxCDF	57117-44-9	0.165 JB	0.0167	5.64	1
11031	123789-HxCDF	72918-21-9	0.138 JB	0.0197	5.64	1
11031	234678-HxCDF	60851-34-5	0.109 JB	0.0171	5.64	1
11031	1234678-HpCDF	67562-39-4	0.302 JB	0.0124	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0897 JB	0.0183	5.64	1
11031	OCDF	39001-02-0	0.396 JB	0.0179	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	52	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-677-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-677-SA5C-SB

LLI Sample # SW 6666950  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 14:23

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Submitted: 05/25/2012 09:15

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67700 SDG#: PH009-14

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-677-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-677-SA5C-SB

LLI Sample # SW 666950  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 14:23

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67700 SDG#: PH009-14

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/04/2012 12:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402B	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-677-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-677-SA5C-SB

LLI Sample # SW 666951  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 14:33

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Submitted: 05/25/2012 09:15

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67740 SDG#: PH009-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-677-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-677-SA5C-SB

LLI Sample # SW 666951  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 14:33

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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67740 SDG#: PH009-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0301 JBQ	0.0170	1.10	1
11031	12378-PeCDD	40321-76-4	0.0488 J	0.0125	5.51	1
11031	123478-HxCDD	39227-28-6	0.0394 JB	0.0126	5.51	1
11031	123678-HxCDD	57653-85-7	0.0482 J	0.0140	5.51	1
11031	123789-HxCDD	19408-74-3	0.0461 JBQ	0.0129	5.51	1
11031	1234678-HpCDD	35822-46-9	0.520 JB	0.0203	5.51	1
11031	OCDD	3268-87-9	2.67 JB	0.0184	11.0	1
11031	2378-TCDF	51207-31-9	0.0329 JBQ	0.0110	1.10	1
11031	12378-PeCDF	57117-41-6	0.0736 JB	0.00976	5.51	1
11031	23478-PeCDF	57117-31-4	0.0765 JB	0.00876	5.51	1
11031	123478-HxCDF	70648-26-9	0.0510 JB	0.00913	5.51	1
11031	123678-HxCDF	57117-44-9	0.0443 JB	0.00886	5.51	1
11031	123789-HxCDF	72918-21-9	0.0420 JB	0.0101	5.51	1
11031	234678-HxCDF	60851-34-5	0.0245 JB	0.00823	5.51	1
11031	1234678-HpCDF	67562-39-4	0.0736 JB	0.00880	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0485 JB	0.0117	5.51	1
11031	OCDF	39001-02-0	0.107 JB	0.0201	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	58	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

Sample Description: SL-677-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-677-SA5C-SB

LLI Sample # SW 666951  
LLI Group # 1311544  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/24/2012 14:33

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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67740 SDG#: PH009-15

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-677-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-677-SA5C-SB

LLI Sample # SW 666951  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 14:33

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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67740 SDG#: PH009-15

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/04/2012 13:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402B	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-705-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-705-SA5C-SB

LLI Sample # SW 666952  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 13:40

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70500 SDG#: PH009-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-705-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-705-SA5C-SB

LLI Sample # SW 666952  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 13:40

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Submitted: 05/25/2012 09:15

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70500 SDG#: PH009-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0257 U	0.0257	1.13	1
11031	12378-PeCDD	40321-76-4	0.0388 J	0.0219	5.66	1
11031	123478-HxCDD	39227-28-6	0.0687 JB	0.0280	5.66	1
11031	123678-HxCDD	57653-85-7	0.222 J	0.0305	5.66	1
11031	123789-HxCDD	19408-74-3	0.152 JB	0.0297	5.66	1
11031	1234678-HpCDD	35822-46-9	4.80 JB	0.0396	5.66	1
11031	OCDD	3268-87-9	55.9 B	0.0302	11.3	1
11031	2378-TCDF	51207-31-9	0.0356 JBQ	0.0264	1.13	1
11031	12378-PeCDF	57117-41-6	0.137 JB	0.0187	5.66	1
11031	23478-PeCDF	57117-31-4	0.0445 JB	0.0171	5.66	1
11031	123478-HxCDF	70648-26-9	0.0895 JBQ	0.0243	5.66	1
11031	123678-HxCDF	57117-44-9	0.0935 JB	0.0227	5.66	1
11031	123789-HxCDF	72918-21-9	0.0930 JBQ	0.0245	5.66	1
11031	234678-HxCDF	60851-34-5	0.0971 JB	0.0200	5.66	1
11031	1234678-HpCDF	67562-39-4	0.671 JB	0.0401	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0807 JB	0.0509	5.66	1
11031	OCDF	39001-02-0	1.20 JBQ	0.0387	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	62	26 - 138
13C12-OCDF	57	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-705-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-705-SA5C-SB

LLI Sample # SW 666952  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 13:40

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

Suite 400

Fairfax VA 22030

70500 SDG#: PH009-16

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-705-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-705-SA5C-SB

LLI Sample # SW 666952  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 13:40

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

Suite 400

Fairfax VA 22030

70500 SDG#: PH009-16

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/04/2012 14:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402B	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-705-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-705-SA5C-SB

LLI Sample # SW 6666953  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 13:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70540 SDG#: PH009-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-705-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-705-SA5C-SB

LLI Sample # SW 6666953  
LLI Group # 1311544  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/24/2012 13:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70540 SDG#: PH009-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0198 U	0.0198	1.13	1
11031	12378-PeCDD	40321-76-4	0.0238 J	0.0148	5.63	1
11031	123478-HxCDD	39227-28-6	0.0255 JBQ	0.0138	5.63	1
11031	123678-HxCDD	57653-85-7	0.0466 JQ	0.0149	5.63	1
11031	123789-HxCDD	19408-74-3	0.0539 JBQ	0.0143	5.63	1
11031	1234678-HpCDD	35822-46-9	0.334 JB	0.0190	5.63	1
11031	OCDD	3268-87-9	0.637 JB	0.0219	11.3	1
11031	2378-TCDF	51207-31-9	0.0150 JB	0.0136	1.13	1
11031	12378-PeCDF	57117-41-6	0.0208 JB	0.0114	5.63	1
11031	23478-PeCDF	57117-31-4	0.0455 JB	0.0106	5.63	1
11031	123478-HxCDF	70648-26-9	0.0355 JB	0.00923	5.63	1
11031	123678-HxCDF	57117-44-9	0.0140 JBQ	0.00896	5.63	1
11031	123789-HxCDF	72918-21-9	0.0164 JB	0.0104	5.63	1
11031	234678-HxCDF	60851-34-5	0.0160 JBQ	0.00781	5.63	1
11031	1234678-HpCDF	67562-39-4	0.0655 JB	0.0195	5.63	1
11031	1234789-HpCDF	55673-89-7	0.0531 JBQ	0.0252	5.63	1
11031	OCDF	39001-02-0	0.0851 JB	0.0195	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	75	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	60	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-705-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-705-SA5C-SB

LLI Sample # SW 6666953  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 13:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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70540 SDG#: PH009-17

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-705-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-705-SA5C-SB

LLI Sample # SW 666953  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 13:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70540 SDG#: PH009-17

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/04/2012 15:36	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402B	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-705-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-705-SA5C-SB

LLI Sample # SW 666954  
 LLI Group # 1311544  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 13:48

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70590 SDG#: PH009-18\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-705-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-705-SA5C-SB

LLI Sample # SW 666954  
LLI Group # 1311544  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/24/2012 13:48

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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70590 SDG#: PH009-18\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0202 U	0.0202	1.14	1
11031	12378-PeCDD	40321-76-4	0.0148 U	0.0148	5.69	1
11031	123478-HxCDD	39227-28-6	0.0133 U	0.0133	5.69	1
11031	123678-HxCDD	57653-85-7	0.0431 JQ	0.0140	5.69	1
11031	123789-HxCDD	19408-74-3	0.0370 JB	0.0134	5.69	1
11031	1234678-HpCDD	35822-46-9	0.275 JBQ	0.0176	5.69	1
11031	OCDD	3268-87-9	0.452 JB	0.0203	11.4	1
11031	2378-TCDF	51207-31-9	0.0148 JBQ	0.0126	1.14	1
11031	12378-PeCDF	57117-41-6	0.0159 JBQ	0.0103	5.69	1
11031	23478-PeCDF	57117-31-4	0.0512 JBQ	0.0105	5.69	1
11031	123478-HxCDF	70648-26-9	0.0172 JBQ	0.00847	5.69	1
11031	123678-HxCDF	57117-44-9	0.0185 JBQ	0.00754	5.69	1
11031	123789-HxCDF	72918-21-9	0.0165 JBQ	0.00922	5.69	1
11031	234678-HxCDF	60851-34-5	0.0198 JB	0.00753	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0590 JB	0.0145	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0223 U	0.0223	5.69	1
11031	OCDF	39001-02-0	0.0730 JB	0.0167	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	52	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-705-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-705-SA5C-SB

LLI Sample # SW 666954  
 LLI Group # 1311544  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 13:48

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

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Reported: 06/07/2012 16:48

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Fairfax VA 22030

70590 SDG#: PH009-18\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-705-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-705-SA5C-SB

LLI Sample # SW 666954  
LLI Group # 1311544  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/24/2012 13:48

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:48

Suite 400

Fairfax VA 22030

70590 SDG#: PH009-18\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/04/2012 16:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12156162402B	06/04/2012 11:33	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/07/12 at 04:48 PM

Group Number: 1311544

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12156162402A Moisture CDM	Sample number(s): 6666937-6666946				100		80-120		
Batch number: 12156162402B Moisture CDM	Sample number(s): 6666947-6666948, 6666950-6666954				100		80-120		
<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12150002	Sample number(s): 6666949								
2378-TCDD	0.293 J	0.224	2.00	pg/l	105		67-158		
12378-PeCDD	0.414 J	0.183	10.0	pg/l	105		70-142		
123478-HxCDD	0.211 J	0.129	10.0	pg/l	98		70-164		
123678-HxCDD	0.356 J	0.135	10.0	pg/l	99		76-134		
123789-HxCDD	0.441 J	0.128	10.0	pg/l	104		64-162		
1234678-HpCDD	3.21 J	0.159	10.0	pg/l	106		70-140		
OCDD	4.87 J	0.168	20.0	pg/l	103		78-144		
2378-TCDF	0.228 J	0.124	2.00	pg/l	93		75-158		
12378-PeCDF	0.245 J	0.113	10.0	pg/l	100		80-134		
23478-PeCDF	0.529 J	0.0988	10.0	pg/l	92		68-160		
123478-HxCDF	0.339 J	0.0859	10.0	pg/l	99		72-134		
123678-HxCDF	0.272 J	0.0855	10.0	pg/l	101		84-130		
123789-HxCDF	0.278 J	0.0856	10.0	pg/l	102		78-130		
234678-HxCDF	0.278 J	0.0811	10.0	pg/l	98		70-156		
1234678-HpCDF	0.685 J	0.0724	10.0	pg/l	94		82-122		
1234789-HpCDF	0.439 J	0.0784	10.0	pg/l	100		78-138		
OCDF	0.891 J	0.125	20.0	pg/l	99		63-170		
Batch number: 12152003	Sample number(s): 6666937-6666948, 6666950-6666954								
2378-TCDD	0.0209 J	0.0190	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0156 U	0.0156	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0280 J	0.0116	5.00	ng/kg	93		70-164		
123678-HxCDD	0.0125 U	0.0125	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0351 J	0.0118	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.231 J	0.0145	5.00	ng/kg	99		70-140		
OCDD	0.339 J	0.0162	10.0	ng/kg	94		78-144		
2378-TCDF	0.0203 J	0.0126	1.00	ng/kg	98		75-158		
12378-PeCDF	0.0199 J	0.0106	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0506 J	0.0104	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0275 J	0.00897	5.00	ng/kg	95		72-134		
123678-HxCDF	0.0204 J	0.00775	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0475 J	0.00980	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0517 J	0.00824	5.00	ng/kg	95		70-156		
1234678-HpCDF	0.0593 J	0.00591	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0475 J	0.0102	5.00	ng/kg	95		78-138		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/07/12 at 04:48 PM

Group Number: 1311544

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
OCDF	0.112 J	0.0160	10.0	ng/kg	94		63-170		

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12156162402A Moisture CDM	Sample number(s): 6666937-6666946 BKG: 6666939								
						11.0	10.9	1	20
Batch number: 12156162402B Moisture CDM	Sample number(s): 6666947-6666948,6666950-6666954 BKG: 6666947								
						12.8	12.0	6	20
Batch number: 12152003	Sample number(s): 6666937-6666948,6666950-6666954 UNSPK: 6666939								
2378-TCDD	93	96	67-158	2	25				
12378-PeCDD	96	95	70-142	2	25				
123478-HxCDD	88	89	70-164	1	25				
123678-HxCDD	87	89	76-134	2	25				
123789-HxCDD	95	94	64-162	1	25				
1234678-HpCDD	93	89	70-140	5	25				
OCDD	89	83	78-144	6	25				
2378-TCDF	85	83	75-158	3	25				
12378-PeCDF	91	92	80-134	1	25				
23478-PeCDF	87	86	68-160	2	25				
123478-HxCDF	94	95	72-134	1	25				
123678-HxCDF	96	94	84-130	2	25				
123789-HxCDF	96	97	78-130	0	25				
234678-HxCDF	90	90	70-156	1	25				
1234678-HpCDF	87	88	82-122	0	25				
1234789-HpCDF	94	92	78-138	3	25				
OCDF	93	91	63-170	2	25				

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b. Dioxins/Furans 10-15 day  
Batch number: 12150002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6666949	65	62	58	56	61	66
Blank	57	72	68	66	70	72
OPR	67	75	74	70	74	76
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6666949	56	56	54	59	59	59

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/07/12 at 04:48 PM

Group Number: 1311544

### Surrogate Quality Control

Blank	69	69	67	67	69	68
OPR	75	77	79	71	76	73
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6666949	56	57	55	66	61	
Blank	69	70	68	70	71	
OPR	74	76	79	69	73	
Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12152003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6666937	81	81	78	86	81	82
6666938	84	87	79	80	89	93
6666939	82	85	80	79	89	84
6666940	79	83	79	78	80	85
6666941	80	87	78	78	85	84
6666942	81	84	79	79	90	82
6666943	75	83	75	79	87	73
6666944	79	88	68	75	87	81
6666945	81	85	83	82	85	88
6666946	90	93	88	87	97	96
6666947	84	87	81	86	88	79
6666948	75	76	69	78	82	73
6666950	76	65	69	74	69	69
6666951	79	77	74	76	80	67
6666952	77	72	70	73	78	69
6666953	78	73	75	78	84	71
6666954	72	67	69	74	76	64
Blank	68	67	67	77	71	64
MS	86	75	77	75	81	81
MSD	83	73	74	75	85	75
OPR	68	70	69	78	71	66
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6666937	98	71	70	82	86	85
6666938	85	77	75	84	85	84
6666939	78	77	69	83	85	82
6666940	78	75	69	80	80	80
6666941	80	74	69	86	84	83
6666942	76	75	68	82	84	82
6666943	85	67	61	84	83	82
6666944	80	74	69	89	84	84
6666945	84	80	73	86	86	84
6666946	89	84	78	90	94	94
6666947	86	75	69	87	88	88
6666948	84	65	59	76	84	82
6666950	80	60	52	71	79	78
6666951	76	63	58	81	86	82

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/07/12 at 04:48 PM

Group Number: 1311544

### Surrogate Quality Control

6666952	74	62	57	75	81	81
6666953	83	67	60	79	88	87
6666954	81	58	52	74	83	81
Blank	93	59	55	73	80	80
MS	76	69	62	78	87	85
MSD	74	65	57	78	85	85
OPR	93	58	55	75	82	80
<hr/>						
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
<hr/>						
6666937	86	84	88	81	90	
6666938	83	80	80	84	91	
6666939	83	79	72	81	84	
6666940	80	76	72	82	82	
6666941	83	78	73	82	87	
6666942	82	76	68	83	84	
6666943	81	76	70	74	88	
6666944	84	80	75	82	90	
6666945	87	84	77	84	88	
6666946	95	87	83	94	96	
6666947	86	81	75	86	88	
6666948	83	75	71	73	84	
6666950	78	72	68	69	73	
6666951	83	75	70	73	74	
6666952	78	75	70	71	74	
6666953	85	81	75	72	77	
6666954	81	76	67	67	74	
Blank	79	78	75	62	75	
MS	85	80	69	78	76	
MSD	85	76	63	78	72	
OPR	80	77	73	62	77	
<hr/>						
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

13013 1311544  
6666937-54

# SSFL Phase 3 Chain of Custody

CDM Smith  
 Date Shipped: 5/24/2012 Contact Name: Pam Hartman No: 20120524-01  
 Carrier Name: FedEx Contact Phone: (818)466-8007 Cooler #:   
 Airbill No: 7984 3693 6083 Lab Phone: 717-556-7259 Lab: Lancaster

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	O/ranoth	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex C7 7196/7199	pH 9040 (Water)	Perchlorate Confm 6850/6860	pH 9045 (Soil)	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes		
SL-671-SA5C-SB-2.0-3.0	5/23/12 13:38	SO	None	1 - 4 oz glass	10 day																																	
SL-675-SA5C-SB-0.0-0.5	5/23/12 10:26	SO	None	1 - 8 oz glass	10 day																																	
SL-676-SA5C-SB-4.0-5.0	5/23/12 14:43	SO	None	1 - 8 oz glass	10 day																																	
SL-976-SA5C-SB-4.0-5.0	5/23/12 15:11	SO	None	1 - 8 oz glass	10 day																																	
SL-672-SA5C-SB-0.0-0.5	5/24/12 09:50	SO	None	1 - 4 oz glass	10 day																																	
SL-672-SA5C-SB-4.0-5.0	5/24/12 09:55	SO	None	1 - 4 oz glass	10 day																																	
SL-694-SA5C-SB-0.0-0.5	5/24/12 11:03	SO	None	1 - 4 oz glass	10 day																																	
SL-694-SA5C-SB-4.0-5.0	5/24/12 11:08	SO	None	1 - 4 oz glass	10 day																																	
SL-694-SA5C-SB-9.0-10.0	5/24/12 11:13	SO	None	1 - 4 oz glass	10 day																																	
SL-704-SA5C-SB-0.0-0.5	5/24/12 08:46	SO	None	1 - 4 oz glass	10 day																																	
SL-704-SA5C-SB-4.0-5.0	5/24/12 08:52	SO	None	1 - 4 oz glass	10 day																																	
SL-704-SA5C-SB-9.0-10.0	5/24/12 08:57	SO	None	1 - 4 oz glass	10 day																																	
EB-052412	5/24/12 15:00	WQ	None	2 - 1 L Amber	10 day					X																												
SL-677-SA5C-SB-0.0-0.5	5/24/12 14:23	SO	None	1 - 4 oz glass	10 day																																	
SL-677-SA5C-SB-4.0-5.0	5/24/12 14:33	SO	None	1 - 4 oz glass	10 day																																	
SL-705-SA5C-SB-0.0-0.5	5/24/12 13:40	SO	None	1 - 4 oz glass	10 day																																	
SL-705-SA5C-SB-4.0-5.0	5/24/12 13:43	SO	None	1 - 4 oz glass	10 day																																	
SL-705-SA5C-SB-9.0-10.0	5/24/12 13:48	SO	None	1 - 4 oz glass	10 day																																	

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	5/24/12									
	<i>[Signature]</i>										
									<i>[Signature]</i>	5/24/12	0915

CCC Rev 3 Sampler: *[Signature]*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 07, 2012

Project: SSFL Phase 3 Sampling

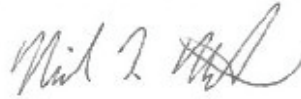
Submittal Date: 05/25/2012  
Group Number: 1312215  
SDG: PH009  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-676-SA5C-SB-4.0-5.0MS Soil  
SL-676-SA5C-SB-4.0-5.0MSD SoilLancaster Labs (LLI) #6670471  
6670472

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC     CDM Federal Services Program  
COPY TO  
ELECTRONIC     Data Package Group  
COPY TO

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-676-SA5C-SB-4.0-5.0MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-676-SA5C-SB

LLI Sample # SW 6670471  
 LLI Group # 1312215  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 14:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:49

Suite 400

Fairfax VA 22030

67640 SDG#: PH009-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 11.0	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-676-SA5C-SB-4.0-5.0MS Soil  
SSFL Phase 3 Soil Sampling  
SL-676-SA5C-SB

LLI Sample # SW 6670471  
LLI Group # 1312215  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 14:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:49

Suite 400

Fairfax VA 22030

67640 SDG#: PH009-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	21.0	B	0.0372	1.12	1
11031	12378-PeCDD	40321-76-4	108		0.0269	5.61	1
11031	123478-HxCDD	39227-28-6	99.0	B	0.0378	5.61	1
11031	123678-HxCDD	57653-85-7	97.6		0.0410	5.61	1
11031	123789-HxCDD	19408-74-3	107	B	0.0379	5.61	1
11031	1234678-HpCDD	35822-46-9	109	B	0.0462	5.61	1
11031	OCDD	3268-87-9	250	B	0.0339	11.2	1
11031	2378-TCDF	51207-31-9	19.0	B	0.0241	1.12	1
11031	12378-PeCDF	57117-41-6	102	B	0.0307	5.61	1
11031	23478-PeCDF	57117-31-4	97.1	B	0.0294	5.61	1
11031	123478-HxCDF	70648-26-9	105	B	0.0528	5.61	1
11031	123678-HxCDF	57117-44-9	108	B	0.0518	5.61	1
11031	123789-HxCDF	72918-21-9	108	B	0.0485	5.61	1
11031	234678-HxCDF	60851-34-5	102	B	0.0471	5.61	1
11031	1234678-HpCDF	67562-39-4	98.2	B	0.0456	5.61	1
11031	1234789-HpCDF	55673-89-7	106	B	0.0550	5.61	1
11031	OCDF	39001-02-0	209	B	0.0355	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-676-SA5C-SB-4.0-5.0MS Soil  
SSFL Phase 3 Soil Sampling  
SL-676-SA5C-SB

LLI Sample # SW 6670471  
LLI Group # 1312215  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 14:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:49

Suite 400

Fairfax VA 22030

67640 SDG#: PH009-03MS

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-676-SA5C-SB-4.0-5.0MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-676-SA5C-SB

**LLI Sample #** SW 6670471  
**LLI Group #** 1312215  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 14:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:49

Suite 400

Fairfax VA 22030

67640 SDG#: PH009-03MS

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/04/2012 17:29	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11625	Moisture CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1

**Sample Description:** SL-676-SA5C-SB-4.0-5.0MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-676-SA5C-SB

LLI Sample # SW 6670472  
LLI Group # 1312215  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 14:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:49

Suite 400

Fairfax VA 22030

67640 SDG#: PH009-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture CDM	n.a.	11.0	0.50	0.50	1
11626	Moisture Duplicate CDM	n.a.	10.9	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

**Sample Description:** SL-676-SA5C-SB-4.0-5.0MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-676-SA5C-SB

LLI Sample # SW 6670472  
LLI Group # 1312215  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 14:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:49

Suite 400

Fairfax VA 22030

67640 SDG#: PH009-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>					<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>					<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	21.4	B	0.0286	1.11	1
11031	12378-PeCDD	40321-76-4	106		0.0270	5.57	1
11031	123478-HxCDD	39227-28-6	99.8	B	0.0327	5.57	1
11031	123678-HxCDD	57653-85-7	99.6		0.0346	5.57	1
11031	123789-HxCDD	19408-74-3	105	B	0.0343	5.57	1
11031	1234678-HpCDD	35822-46-9	104	B	0.0468	5.57	1
11031	OCDD	3268-87-9	235	B	0.0451	11.1	1
11031	2378-TCDF	51207-31-9	18.5	B	0.0240	1.11	1
11031	12378-PeCDF	57117-41-6	103	B	0.0291	5.57	1
11031	23478-PeCDF	57117-31-4	95.7	B	0.0255	5.57	1
11031	123478-HxCDF	70648-26-9	106	B	0.0505	5.57	1
11031	123678-HxCDF	57117-44-9	105	B	0.0493	5.57	1
11031	123789-HxCDF	72918-21-9	108	B	0.0522	5.57	1
11031	234678-HxCDF	60851-34-5	101	B	0.0409	5.57	1
11031	1234678-HpCDF	67562-39-4	98.4	B	0.0405	5.57	1
11031	1234789-HpCDF	55673-89-7	102	B	0.0492	5.57	1
11031	OCDF	39001-02-0	204	B	0.0389	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	57	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-676-SA5C-SB-4.0-5.0MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-676-SA5C-SB

LLI Sample # SW 6670472  
LLI Group # 1312215  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 14:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:49

Suite 400

Fairfax VA 22030

67640 SDG#: PH009-03MSD

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-676-SA5C-SB-4.0-5.0MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-676-SA5C-SB

LLI Sample # SW 6670472  
LLI Group # 1312215  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/23/2012 14:43

CDM Federal Programs Corp.

Submitted: 05/25/2012 09:15

3201 Jermantown Road

Reported: 06/07/2012 16:49

Suite 400

Fairfax VA 22030

67640 SDG#: PH009-03MSD

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12152003	06/04/2012 18:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12152003	05/31/2012 11:40	Ginelle L Haines	1
11625	Moisture CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1
11626	Moisture Duplicate CDM	EPA 160.3 modified	1	12156162402A	06/04/2012 11:33	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/07/12 at 04:49 PM

Group Number: 1312215

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12156162402A	Sample number(s): 6670471-6670472								
Moisture CDM					100		80-120		
Moisture Duplicate CDM					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12152003	Sample number(s): 6670471-6670472								
2378-TCDD	0.0209 J	0.0190	1.00	ng/kg	104		67-158		
12378-PeCDD	0.0156 U	0.0156	5.00	ng/kg	102		70-142		
123478-HxCDD	0.0280 J	0.0116	5.00	ng/kg	93		70-164		
123678-HxCDD	0.0125 U	0.0125	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0351 J	0.0118	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.231 J	0.0145	5.00	ng/kg	99		70-140		
OCDD	0.339 J	0.0162	10.0	ng/kg	94		78-144		
2378-TCDF	0.0203 J	0.0126	1.00	ng/kg	98		75-158		
12378-PeCDF	0.0199 J	0.0106	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0506 J	0.0104	5.00	ng/kg	91		68-160		
123478-HxCDF	0.0275 J	0.00897	5.00	ng/kg	95		72-134		
123678-HxCDF	0.0204 J	0.00775	5.00	ng/kg	94		84-130		
123789-HxCDF	0.0475 J	0.00980	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0517 J	0.00824	5.00	ng/kg	95		70-156		
1234678-HpCDF	0.0593 J	0.00591	5.00	ng/kg	89		82-122		
1234789-HpCDF	0.0475 J	0.0102	5.00	ng/kg	95		78-138		
OCDF	0.112 J	0.0160	10.0	ng/kg	94		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12156162402A	Sample number(s): 6670471-6670472					BKG: P666939			
Moisture CDM						11.0	10.9	1	20
Moisture Duplicate CDM						11.0	10.9	1	20
Batch number: 12152003	Sample number(s): 6670471-6670472					UNSPK: P666939			
2378-TCDD	93	96	67-158	2	25				
12378-PeCDD	96	95	70-142	2	25				
123478-HxCDD	88	89	70-164	1	25				
123678-HxCDD	87	89	76-134	2	25				

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/07/12 at 04:49 PM

Group Number: 1312215

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
123789-HxCDD	95	94	64-162	1	25				
1234678-HpCDD	93	89	70-140	5	25				
OCDD	89	83	78-144	6	25				
2378-TCDF	85	83	75-158	3	25				
12378-PeCDF	91	92	80-134	1	25				
23478-PeCDF	87	86	68-160	2	25				
123478-HxCDF	94	95	72-134	1	25				
123678-HxCDF	96	94	84-130	2	25				
123789-HxCDF	96	97	78-130	0	25				
234678-HxCDF	90	90	70-156	1	25				
1234678-HpCDF	87	88	82-122	0	25				
1234789-HpCDF	94	92	78-138	3	25				
OCDF	93	91	63-170	2	25				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12152003

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6670471	86	75	77	75	81	81
6670472	83	73	74	75	85	75
Blank	68	67	67	77	71	64
MS	86	75	77	75	81	81
MSD	83	73	74	75	85	75
OPR	68	70	69	78	71	66
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6670471	76	69	62	78	87	85
6670472	74	65	57	78	85	85
Blank	93	59	55	73	80	80
MS	76	69	62	78	87	85
MSD	74	65	57	78	85	85
OPR	93	58	55	75	82	80
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6670471	85	80	69	78	76	
6670472	85	76	63	78	72	
Blank	79	78	75	62	75	
MS	85	80	69	78	76	
MSD	85	76	63	78	72	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/07/12 at 04:49 PM

Group Number: 1312215

### Surrogate Quality Control

OPR	80	77	73	62	77
Limits:	28-130	23-140	17-157	24-169	24-185

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

13013 ~~131544~~ 1312215

~~6666937-54~~  
6670471-72  
20120524-01  
② DN  
5/20/12

# SSFL Phase 3 Chain of Custody

CDM Smith  
Date Shipped: 5/24/2012  
Carrier Name: FedEx  
Airbill No: 7984 3693 6083

Contact Name: Pam Hartman  
Contact Phone: (818)466-8007

No:  
Cooler #:  
Lab:  
Lab Phone: 717-556-7259  
Lancaster

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Other Analysis/Notes
SL-671-SASC-SB-2.0-3.0	5/23/12 13:38	SO	None	1 - 4 oz glass	10 day	
SL-675-SASC-SB-0.0-0.5	5/23/12 10:26	SO	None	1 - 8 oz glass	10 day	
SL-676-SASC-SB-4.0-5.0	5/23/12 10:43	SO	None	1 - 8 oz glass	10 day	
SL-976-SASC-SB-4.0-5.0	5/23/12 15:11	SO	None	1 - 8 oz glass	10 day	
SL-672-SASC-SB-0.0-0.5	5/24/12 09:50	SO	None	1 - 4 oz glass	10 day	
SL-672-SASC-SB-4.0-5.0	5/24/12 09:55	SO	None	1 - 4 oz glass	10 day	
SL-694-SASC-SB-0.0-0.5	5/24/12 11:03	SO	None	1 - 4 oz glass	10 day	
SL-694-SASC-SB-4.0-5.0	5/24/12 11:08	SO	None	1 - 4 oz glass	10 day	
SL-694-SASC-SB-9.0-10.0	5/24/12 11:13	SO	None	1 - 4 oz glass	10 day	
SL-704-SASC-SB-0.0-0.5	5/24/12 08:46	SO	None	1 - 4 oz glass	10 day	
SL-704-SASC-SB-4.0-5.0	5/24/12 08:52	SO	None	1 - 4 oz glass	10 day	
SL-704-SASC-SB-9.0-10.0	5/24/12 08:57	SO	None	1 - 4 oz glass	10 day	
EB-052412	5/24/12 15:00	WQ	None	2 - 1 L Amber	10 day	X
SL-677-SASC-SB-0.0-0.5	5/24/12 14:23	SO	None	1 - 4 oz glass	10 day	
SL-677-SASC-SB-4.0-5.0	5/24/12 14:33	SO	None	1 - 4 oz glass	10 day	
SL-705-SASC-SB-0.0-0.5	5/24/12 13:40	SO	None	1 - 4 oz glass	10 day	
SL-705-SASC-SB-4.0-5.0	5/24/12 13:43	SO	None	1 - 4 oz glass	10 day	
SL-705-SASC-SB-9.0-10.0	5/24/12 13:48	SO	None	1 - 4 oz glass	10 day	

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	5/24/12									
/											
									<i>[Signature]</i>	5/24/12	0915

Sampler: *[Signature]*

**Nicole Maljovec**

---

**From:** Pham, Tina V. [phamtv@cdmsmith.com]  
**Sent:** Tuesday, May 29, 2012 5:15 PM  
**To:** Nicole Maljovec  
**Cc:** Love, Catherine; Hartman, Pamela  
**Subject:** Lancaster Corrected COC for 5/24/12  
**Attachments:** Lancaster 052412 COC.PDF

Nicole,

We realized that we did not mark sample SL-676-SA5C-SB-4.0-5.0MS as an MS/MSD sample.

Attached is the corrected COC. Let me know if you have any questions!

**Tina Pham**

Environmental Engineer | CDM Smith | 100 Pringle Ave., Suite 300 | Walnut Creek, CA 94596 |  
**Office:** 925.296.8020 | **Cell:** 925.212.3312 | [phamtv@cdmsmith.com](mailto:phamtv@cdmsmith.com) | [cdmsmith.com](http://cdmsmith.com)

5/30/2012

# SSFL Phase 3 Chain of Custody

**CDM Smith**  
 Date Shipped: 5/24/2012  
 Carrier Name: FedEx  
 Airbill No: 7984 3693 6083

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120524-01  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Other Analysis/Notes
SL-671-SA5C-SB-2.0-3.0	5/23/12 13:38	SO	None	1 - 4 oz glass	10 day	
SL-675-SA5C-SB-0.0-0.5	5/23/12 10:26	SO	None	1 - 8 oz glass	10 day	
SL-676-SA5C-SB-4.0-5.0MS	5/23/12 14:43	SO	None	1 - 8 oz glass	10 day	MS/MSD
SL-976-SA5C-SB-4.0-5.0	5/23/12 15:11	SO	None	1 - 8 oz glass	10 day	
SL-672-SA5C-SB-0.0-0.5	5/24/12 09:50	SO	None	1 - 4 oz glass	10 day	
SL-672-SA5C-SB-4.0-5.0	5/24/12 09:55	SO	None	1 - 4 oz glass	10 day	
SL-694-SA5C-SB-0.0-0.5	5/24/12 11:03	SO	None	1 - 4 oz glass	10 day	
SL-694-SA5C-SB-4.0-5.0	5/24/12 11:08	SO	None	1 - 4 oz glass	10 day	
SL-694-SA5C-SB-9.0-10.0	5/24/12 11:13	SO	None	1 - 4 oz glass	10 day	
SL-704-SA5C-SB-0.0-0.5	5/24/12 08:46	SO	None	1 - 4 oz glass	10 day	
SL-704-SA5C-SB-4.0-5.0	5/24/12 08:52	SO	None	1 - 4 oz glass	10 day	
SL-704-SA5C-SB-9.0-10.0	5/24/12 08:57	SO	None	1 - 4 oz glass	10 day	
EB-052412	5/24/12 15:00	WQ	None	2 - 1 L Amber	10 day	X
SL-677-SA5C-SB-0.0-0.5	5/24/12 14:23	SO	None	1 - 4 oz glass	10 day	
SL-677-SA5C-SB-4.0-5.0	5/24/12 14:33	SO	None	1 - 4 oz glass	10 day	
SL-705-SA5C-SB-0.0-0.5	5/24/12 13:40	SO	None	1 - 4 oz glass	10 day	
SL-705-SA5C-SB-4.0-5.0	5/24/12 13:43	SO	None	1 - 4 oz glass	10 day	
SL-705-SA5C-SB-9.0-10.0	5/24/12 13:48	SO	None	1 - 4 oz glass	10 day	

Special Instructions: 
**SAMPLES TRANSFERRED FROM**  
**CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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## ANALYTICAL RESULTS

Prepared by:

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Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 14, 2012

Project: SSFL Phase 3 Sampling

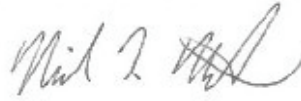
Submittal Date: 05/31/2012  
Group Number: 1312585  
SDG: PH010  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-620-SA5C-SB-0.0-0.5 Soil  
SL-723-SA5C-SB-0.0-0.5 Soil  
SL-723-SA5C-SB-4.0-5.0 Soil  
SL-723-SA5C-SB-9.0-10.0 Soil  
SL-724-SA5C-SB-0.0-0.5 Soil  
SL-724-SA5C-SB-4.0-5.0 Soil  
SL-724-SA5C-SB-9.0-10.0 Soil  
SL-750-SA5C-SB-0.0-0.5 Soil  
SL-750-SA5C-SB-5.5-6.5 Soil  
SL-752-SA5C-SB-0.0-0.5 Soil  
EB-053012 WaterLancaster Labs (LLI) #6672439  
6672440  
6672441  
6672442  
6672443  
6672444  
6672445  
6672446  
6672447  
6672448  
6672449

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Attn: Todd Burgesser

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-620-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-620-SA5C-SB

LLI Sample # SW 6672439  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 15:10

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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H1001 SDG#: PH010-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-620-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-620-SA5C-SB

LLI Sample # SW 6672439  
LLI Group # 1312585  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/29/2012 15:10

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H1001 SDG#: PH010-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0294 JQ	0.0166	1.09	1
11031	12378-PeCDD	40321-76-4	0.0515 JB	0.0165	5.43	1
11031	123478-HxCDD	39227-28-6	0.0372 JB	0.0226	5.43	1
11031	123678-HxCDD	57653-85-7	0.181 JB	0.0232	5.43	1
11031	123789-HxCDD	19408-74-3	0.140 JB	0.0221	5.43	1
11031	1234678-HpCDD	35822-46-9	4.18 JB	0.0233	5.43	1
11031	OCDD	3268-87-9	37.7 B	0.0214	10.9	1
11031	2378-TCDF	51207-31-9	0.0199 U	0.0199	1.09	1
11031	12378-PeCDF	57117-41-6	0.127 JB	0.0172	5.43	1
11031	23478-PeCDF	57117-31-4	0.0984 JB	0.0158	5.43	1
11031	123478-HxCDF	70648-26-9	0.242 JB	0.0211	5.43	1
11031	123678-HxCDF	57117-44-9	0.0660 JB	0.0204	5.43	1
11031	123789-HxCDF	72918-21-9	0.0456 JB	0.0215	5.43	1
11031	234678-HxCDF	60851-34-5	0.0589 JB	0.0193	5.43	1
11031	1234678-HpCDF	67562-39-4	0.467 JB	0.0143	5.43	1
11031	1234789-HpCDF	55673-89-7	0.0381 JB	0.0159	5.43	1
11031	OCDF	39001-02-0	1.15 JB	0.0186	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	57	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-620-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-620-SA5C-SB

**LLI Sample #** SW 6672439  
**LLI Group #** 1312585  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

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H1001 SDG#: PH010-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-620-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-620-SA5C-SB

LLI Sample # SW 6672439  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 15:10

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H1001 SDG#: PH010-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 16:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401A	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-723-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-723-SA5C-SB

LLI Sample # SW 6672440  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 10:05

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H1002 SDG#: PH010-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	5.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-723-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-723-SA5C-SB

LLI Sample # SW 6672440  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 10:05

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H1002 SDG#: PH010-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0507	J	0.0254	1.03	1
11031	12378-PeCDD	40321-76-4	0.135	JB	0.0262	5.15	1
11031	123478-HxCDD	39227-28-6	0.199	JB	0.0343	5.15	1
11031	123678-HxCDD	57653-85-7	0.722	JB	0.0362	5.15	1
11031	123789-HxCDD	19408-74-3	0.504	JB	0.0341	5.15	1
11031	1234678-HpCDD	35822-46-9	13.5	B	0.0391	5.15	1
11031	OCDD	3268-87-9	128	B	0.0261	10.3	1
11031	2378-TCDF	51207-31-9	0.0562	JB	0.0449	1.03	1
11031	12378-PeCDF	57117-41-6	0.476	JB	0.0300	5.15	1
11031	23478-PeCDF	57117-31-4	0.224	JB	0.0280	5.15	1
11031	123478-HxCDF	70648-26-9	0.298	JB	0.0282	5.15	1
11031	123678-HxCDF	57117-44-9	0.242	JB	0.0277	5.15	1
11031	123789-HxCDF	72918-21-9	0.406	JB	0.0278	5.15	1
11031	234678-HxCDF	60851-34-5	0.337	JB	0.0258	5.15	1
11031	1234678-HpCDF	67562-39-4	1.97	JB	0.0219	5.15	1
11031	1234789-HpCDF	55673-89-7	0.212	JBQ	0.0243	5.15	1
11031	OCDF	39001-02-0	7.53	JB	0.0209	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	80	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	73	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-723-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-723-SA5C-SB

**LLI Sample #** SW 6672440  
**LLI Group #** 1312585  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 10:05

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H1002 SDG#: PH010-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-723-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-723-SA5C-SB

LLI Sample # SW 6672440  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 10:05

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H1002 SDG#: PH010-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/11/2012 17:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401A	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-723-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-723-SA5C-SB

LLI Sample # SW 6672441  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 10:09

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Submitted: 05/31/2012 09:45

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H1003 SDG#: PH010-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-723-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-723-SA5C-SB

LLI Sample # SW 6672441  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 10:09

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H1003 SDG#: PH010-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0226 U	0.0226	1.10	1
11031	12378-PeCDD	40321-76-4	0.0514 JB	0.0185	5.48	1
11031	123478-HxCDD	39227-28-6	0.0399 JB	0.0160	5.48	1
11031	123678-HxCDD	57653-85-7	0.100 JBQ	0.0175	5.48	1
11031	123789-HxCDD	19408-74-3	0.0518 JB	0.0165	5.48	1
11031	1234678-HpCDD	35822-46-9	0.372 JB	0.0257	5.48	1
11031	OCDD	3268-87-9	1.74 JB	0.0251	11.0	1
11031	2378-TCDF	51207-31-9	0.0174 JBQ	0.0159	1.10	1
11031	12378-PeCDF	57117-41-6	0.0413 JB	0.0131	5.48	1
11031	23478-PeCDF	57117-31-4	0.0667 JBQ	0.0124	5.48	1
11031	123478-HxCDF	70648-26-9	0.0461 JB	0.0130	5.48	1
11031	123678-HxCDF	57117-44-9	0.0547 JB	0.0111	5.48	1
11031	123789-HxCDF	72918-21-9	0.0326 JBQ	0.0123	5.48	1
11031	234678-HxCDF	60851-34-5	0.0412 JB	0.0106	5.48	1
11031	1234678-HpCDF	67562-39-4	0.0671 JB	0.0118	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0419 JBQ	0.0158	5.48	1
11031	OCDF	39001-02-0	0.168 JB	0.0216	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-723-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-723-SA5C-SB

LLI Sample # SW 6672441  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 10:09

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Submitted: 05/31/2012 09:45

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H1003 SDG#: PH010-03

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-723-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-723-SA5C-SB

LLI Sample # SW 6672441  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 10:09

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Submitted: 05/31/2012 09:45

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H1003 SDG#: PH010-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/11/2012 18:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401A	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-723-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-723-SA5C-SB

LLI Sample # SW 6672442  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 10:13

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H1004 SDG#: PH010-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	6.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-723-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-723-SA5C-SB

LLI Sample # SW 6672442  
LLI Group # 1312585  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/29/2012 10:13

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H1004 SDG#: PH010-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0543 JQ	0.0240	1.07	1
11031	12378-PeCDD	40321-76-4	0.0173 U	0.0173	5.34	1
11031	123478-HxCDD	39227-28-6	0.0154 U	0.0154	5.34	1
11031	123678-HxCDD	57653-85-7	0.0696 JB	0.0161	5.34	1
11031	123789-HxCDD	19408-74-3	0.0920 JB	0.0159	5.34	1
11031	1234678-HpCDD	35822-46-9	0.260 JB	0.0189	5.34	1
11031	OCDD	3268-87-9	0.569 JB	0.0211	10.7	1
11031	2378-TCDF	51207-31-9	0.0173 U	0.0173	1.07	1
11031	12378-PeCDF	57117-41-6	0.0355 JBQ	0.0124	5.34	1
11031	23478-PeCDF	57117-31-4	0.0328 JB	0.0119	5.34	1
11031	123478-HxCDF	70648-26-9	0.0530 JB	0.0128	5.34	1
11031	123678-HxCDF	57117-44-9	0.0157 JB	0.0111	5.34	1
11031	123789-HxCDF	72918-21-9	0.0129 U	0.0129	5.34	1
11031	234678-HxCDF	60851-34-5	0.0384 JB	0.0104	5.34	1
11031	1234678-HpCDF	67562-39-4	0.0560 JB	0.00972	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0143 JBQ	0.0138	5.34	1
11031	OCDF	39001-02-0	0.0990 JB	0.0159	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	66	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	66	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-723-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-723-SA5C-SB

**LLI Sample #** SW 6672442  
**LLI Group #** 1312585  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 10:13

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

3201 Jermantown Road

Reported: 06/14/2012 14:21

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H1004 SDG#: PH010-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-723-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-723-SA5C-SB

LLI Sample # SW 6672442  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 10:13

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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H1004 SDG#: PH010-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/11/2012 19:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401A	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-724-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-724-SA5C-SB

LLI Sample # SW 6672443  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 08:57

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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H1005 SDG#: PH010-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-724-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-724-SA5C-SB

LLI Sample # SW 6672443  
LLI Group # 1312585  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/29/2012 08:57

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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H1005 SDG#: PH010-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0351 U	0.0351	1.10	1
11031	12378-PeCDD	40321-76-4	0.163 JB	0.0382	5.50	1
11031	123478-HxCDD	39227-28-6	0.0461 JBQ	0.0308	5.50	1
11031	123678-HxCDD	57653-85-7	0.681 JB	0.0316	5.50	1
11031	123789-HxCDD	19408-74-3	0.930 JB	0.0301	5.50	1
11031	1234678-HpCDD	35822-46-9	0.291 JB	0.0272	5.50	1
11031	OCDD	3268-87-9	0.857 JB	0.0317	11.0	1
11031	2378-TCDF	51207-31-9	0.0442 JB	0.0272	1.10	1
11031	12378-PeCDF	57117-41-6	0.157 JB	0.0213	5.50	1
11031	23478-PeCDF	57117-31-4	0.0558 JB	0.0209	5.50	1
11031	123478-HxCDF	70648-26-9	0.0417 JB	0.0231	5.50	1
11031	123678-HxCDF	57117-44-9	0.0992 JB	0.0194	5.50	1
11031	123789-HxCDF	72918-21-9	0.950 JB	0.0230	5.50	1
11031	234678-HxCDF	60851-34-5	0.0440 JBQ	0.0190	5.50	1
11031	1234678-HpCDF	67562-39-4	0.0744 JB	0.0152	5.50	1
11031	1234789-HpCDF	55673-89-7	0.0702 JB	0.0240	5.50	1
11031	OCDF	39001-02-0	0.137 JB	0.0251	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	67	25 - 181
13C12-123478-HxCDD	71	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	69	24 - 185
13C12-23478-PeCDF	64	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	55	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-724-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-724-SA5C-SB

LLI Sample # SW 6672443  
 LLI Group # 1312585  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 08:57

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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H1005 SDG#: PH010-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-724-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-724-SA5C-SB

LLI Sample # SW 6672443  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 08:57

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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Fairfax VA 22030

H1005 SDG#: PH010-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/11/2012 20:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401A	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-724-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-724-SA5C-SB

LLI Sample # SW 6672444  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 09:00

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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Fairfax VA 22030

H1006 SDG#: PH010-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-724-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-724-SA5C-SB

LLI Sample # SW 6672444  
LLI Group # 1312585  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/29/2012 09:00

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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H1006 SDG#: PH010-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0316 J	0.0198	1.14	1
11031	12378-PeCDD	40321-76-4	0.131 JB	0.0158	5.70	1
11031	123478-HxCDD	39227-28-6	0.0628 JB	0.0134	5.70	1
11031	123678-HxCDD	57653-85-7	0.0579 JB	0.0139	5.70	1
11031	123789-HxCDD	19408-74-3	0.0660 JB	0.0135	5.70	1
11031	1234678-HpCDD	35822-46-9	0.324 JB	0.0167	5.70	1
11031	OCDD	3268-87-9	0.756 JB	0.0166	11.4	1
11031	2378-TCDF	51207-31-9	0.0307 JB	0.0144	1.14	1
11031	12378-PeCDF	57117-41-6	0.105 JB	0.0113	5.70	1
11031	23478-PeCDF	57117-31-4	0.0996 JB	0.0115	5.70	1
11031	123478-HxCDF	70648-26-9	0.0894 JB	0.0116	5.70	1
11031	123678-HxCDF	57117-44-9	0.0763 JB	0.00977	5.70	1
11031	123789-HxCDF	72918-21-9	0.0350 JB	0.0120	5.70	1
11031	234678-HxCDF	60851-34-5	0.0517 JB	0.00938	5.70	1
11031	1234678-HpCDF	67562-39-4	0.0753 JB	0.00808	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0456 JB	0.0120	5.70	1
11031	OCDF	39001-02-0	0.109 JB	0.0143	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	72	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-724-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-724-SA5C-SB

LLI Sample # SW 6672444  
 LLI Group # 1312585  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 09:00

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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Fairfax VA 22030

H1006 SDG#: PH010-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-724-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-724-SA5C-SB

LLI Sample # SW 6672444  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 09:00

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

3201 Jermantown Road

Reported: 06/14/2012 14:21

Suite 400

Fairfax VA 22030

H1006 SDG#: PH010-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/11/2012 21:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401A	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-724-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-724-SA5C-SB

LLI Sample # SW 6672445  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 09:04

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

3201 Jermantown Road

Reported: 06/14/2012 14:21

Suite 400

Fairfax VA 22030

H1007 SDG#: PH010-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-724-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-724-SA5C-SB

LLI Sample # SW 6672445  
LLI Group # 1312585  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/29/2012 09:04

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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H1007 SDG#: PH010-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>			
			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0867 J	0.0204	1.14	1
11031	12378-PeCDD	40321-76-4	0.312 JB	0.0245	5.70	1
11031	123478-HxCDD	39227-28-6	0.0817 JB	0.0209	5.70	1
11031	123678-HxCDD	57653-85-7	0.117 JB	0.0222	5.70	1
11031	123789-HxCDD	19408-74-3	0.176 JB	0.0206	5.70	1
11031	1234678-HpCDD	35822-46-9	0.340 JB	0.0200	5.70	1
11031	OCDD	3268-87-9	0.502 JB	0.0181	11.4	1
11031	2378-TCDF	51207-31-9	0.0750 JB	0.0128	1.14	1
11031	12378-PeCDF	57117-41-6	0.313 JB	0.0128	5.70	1
11031	23478-PeCDF	57117-31-4	0.247 JB	0.0126	5.70	1
11031	123478-HxCDF	70648-26-9	0.134 JB	0.0125	5.70	1
11031	123678-HxCDF	57117-44-9	0.151 JB	0.0108	5.70	1
11031	123789-HxCDF	72918-21-9	0.0818 JB	0.0126	5.70	1
11031	234678-HxCDF	60851-34-5	0.0912 JB	0.0104	5.70	1
11031	1234678-HpCDF	67562-39-4	0.108 JB	0.00994	5.70	1
11031	1234789-HpCDF	55673-89-7	0.0611 JB	0.0130	5.70	1
11031	OCDF	39001-02-0	0.117 JB	0.0149	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	67	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-724-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-724-SA5C-SB

LLI Sample # SW 6672445  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 09:04

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Submitted: 05/31/2012 09:45

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H1007 SDG#: PH010-07

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-724-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-724-SA5C-SB

LLI Sample # SW 6672445  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 09:04

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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Fairfax VA 22030

H1007 SDG#: PH010-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/11/2012 21:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401A	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-750-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-750-SA5C-SB

LLI Sample # SW 6672446  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 11:47

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

3201 Jermantown Road

Reported: 06/14/2012 14:21

Suite 400

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H1008 SDG#: PH010-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-750-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-750-SA5C-SB

LLI Sample # SW 6672446  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 11:47

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

3201 Jermantown Road

Reported: 06/14/2012 14:21

Suite 400  
Fairfax VA 22030

H1008 SDG#: PH010-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.127	JQ	0.0251	1.11	1
11031	12378-PeCDD	40321-76-4	0.261	JB	0.0319	5.54	1
11031	123478-HxCDD	39227-28-6	0.139	JB	0.0351	5.54	1
11031	123678-HxCDD	57653-85-7	0.832	JB	0.0371	5.54	1
11031	123789-HxCDD	19408-74-3	1.17	JB	0.0345	5.54	1
11031	1234678-HpCDD	35822-46-9	8.14	B	0.0478	5.54	1
11031	OCDD	3268-87-9	104	B	0.0238	11.1	1
11031	2378-TCDF	51207-31-9	0.0751	JB	0.0200	1.11	1
11031	12378-PeCDF	57117-41-6	0.314	JB	0.0158	5.54	1
11031	23478-PeCDF	57117-31-4	0.179	JB	0.0161	5.54	1
11031	123478-HxCDF	70648-26-9	0.240	JB	0.0356	5.54	1
11031	123678-HxCDF	57117-44-9	0.227	JB	0.0314	5.54	1
11031	123789-HxCDF	72918-21-9	0.930	JB	0.0316	5.54	1
11031	234678-HxCDF	60851-34-5	0.185	JB	0.0280	5.54	1
11031	1234678-HpCDF	67562-39-4	1.39	JB	0.0211	5.54	1
11031	1234789-HpCDF	55673-89-7	0.214	JB	0.0272	5.54	1
11031	OCDF	39001-02-0	5.44	JB	0.0155	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	80	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-750-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-750-SA5C-SB

**LLI Sample #** SW 6672446  
**LLI Group #** 1312585  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 11:47

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Submitted: 05/31/2012 09:45

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H1008 SDG#: PH010-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-750-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-750-SA5C-SB

LLI Sample # SW 6672446  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 11:47

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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H1008 SDG#: PH010-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 01:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401A	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-750-SA5C-SB-5.5-6.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-750-SA5C-SB

LLI Sample # SW 6672447  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 11:56

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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H1009 SDG#: PH010-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-750-SA5C-SB-5.5-6.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-750-SA5C-SB

LLI Sample # SW 6672447  
LLI Group # 1312585  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/29/2012 11:56

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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H1009 SDG#: PH010-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.108 J	0.0227	1.10	1
11031	12378-PeCDD	40321-76-4	0.0851 JB	0.0248	5.52	1
11031	123478-HxCDD	39227-28-6	0.0318 JBQ	0.0167	5.52	1
11031	123678-HxCDD	57653-85-7	0.0623 JBQ	0.0181	5.52	1
11031	123789-HxCDD	19408-74-3	0.0852 JBQ	0.0179	5.52	1
11031	1234678-HpCDD	35822-46-9	0.335 JB	0.0185	5.52	1
11031	OCDD	3268-87-9	0.703 JB	0.0170	11.0	1
11031	2378-TCDF	51207-31-9	0.0434 JB	0.0153	1.10	1
11031	12378-PeCDF	57117-41-6	0.0944 JBQ	0.0109	5.52	1
11031	23478-PeCDF	57117-31-4	0.0996 JB	0.0116	5.52	1
11031	123478-HxCDF	70648-26-9	0.0556 JB	0.0108	5.52	1
11031	123678-HxCDF	57117-44-9	0.0501 JBQ	0.00879	5.52	1
11031	123789-HxCDF	72918-21-9	0.0394 JB	0.0106	5.52	1
11031	234678-HxCDF	60851-34-5	0.0462 JB	0.00804	5.52	1
11031	1234678-HpCDF	67562-39-4	0.0723 JB	0.00725	5.52	1
11031	1234789-HpCDF	55673-89-7	0.0361 JBQ	0.0119	5.52	1
11031	OCDF	39001-02-0	0.108 JBQ	0.0180	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	57	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	63	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	61	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-750-SA5C-SB-5.5-6.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-750-SA5C-SB

**LLI Sample #** SW 6672447  
**LLI Group #** 1312585  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 11:56

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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H1009 SDG#: PH010-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-750-SA5C-SB-5.5-6.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-750-SA5C-SB

LLI Sample # SW 6672447  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/29/2012 11:56

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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H1009 SDG#: PH010-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 02:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401A	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-752-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-752-SA5C-SB

LLI Sample # SW 6672448  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/30/2012 08:28

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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H1010 SDG#: PH010-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-752-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-752-SA5C-SB

LLI Sample # SW 6672448  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/30/2012 08:28

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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H1010 SDG#: PH010-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0283 J	0.0206	1.13	1
11031	12378-PeCDD	40321-76-4	0.0321 JBQ	0.0195	5.65	1
11031	123478-HxCDD	39227-28-6	0.0495 JB	0.0143	5.65	1
11031	123678-HxCDD	57653-85-7	0.0782 JB	0.0145	5.65	1
11031	123789-HxCDD	19408-74-3	0.0418 JBQ	0.0147	5.65	1
11031	1234678-HpCDD	35822-46-9	0.429 JB	0.0190	5.65	1
11031	OCDD	3268-87-9	0.795 JB	0.0162	11.3	1
11031	2378-TCDF	51207-31-9	0.0183 JBQ	0.0152	1.13	1
11031	12378-PeCDF	57117-41-6	0.0289 JB	0.0119	5.65	1
11031	23478-PeCDF	57117-31-4	0.0715 JB	0.0118	5.65	1
11031	123478-HxCDF	70648-26-9	0.0361 JBQ	0.0112	5.65	1
11031	123678-HxCDF	57117-44-9	0.0233 JBQ	0.00937	5.65	1
11031	123789-HxCDF	72918-21-9	0.0487 JB	0.0119	5.65	1
11031	234678-HxCDF	60851-34-5	0.0304 JB	0.0102	5.65	1
11031	1234678-HpCDF	67562-39-4	0.0974 JB	0.00780	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0381 JB	0.0122	5.65	1
11031	OCDF	39001-02-0	0.124 JB	0.0149	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	56	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	60	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	57	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-752-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-752-SA5C-SB

**LLI Sample #** SW 6672448  
**LLI Group #** 1312585  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/30/2012 08:28

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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H1010 SDG#: PH010-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-752-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-752-SA5C-SB

LLI Sample # SW 6672448  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/30/2012 08:28

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

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Reported: 06/14/2012 14:21

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H1010 SDG#: PH010-10

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 03:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401A	06/06/2012 11:39	William C Schwebel	1

Sample Description: **EB-053012 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB**

LLI Sample # **WW 6672449**  
 LLI Group # **1312585**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 05/30/2012 15:00

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

3201 Jermantown Road

Reported: 06/14/2012 14:21

Suite 400

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H1011 SDG#: PH010-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.327 JB	0.278	2.22	1
10915	12378-PeCDD	40321-76-4	0.639 JB	0.236	11.1	1
10915	123478-HxCDD	39227-28-6	0.413 JB	0.196	11.1	1
10915	123678-HxCDD	57653-85-7	0.699 JBQ	0.212	11.1	1
10915	123789-HxCDD	19408-74-3	0.677 JBQ	0.207	11.1	1
10915	1234678-HpCDD	35822-46-9	6.62 JBQ	0.321	11.1	1
10915	OCDD	3268-87-9	11.8 JB	0.454	22.2	1
10915	2378-TCDF	51207-31-9	0.320 JQ	0.169	2.22	1
10915	12378-PeCDF	57117-41-6	0.518 JBQ	0.163	11.1	1
10915	23478-PeCDF	57117-31-4	0.502 JB	0.146	11.1	1
10915	123478-HxCDF	70648-26-9	0.844 JB	0.168	11.1	1
10915	123678-HxCDF	57117-44-9	0.495 JB	0.170	11.1	1
10915	123789-HxCDF	72918-21-9	0.331 JBQ	0.142	11.1	1
10915	234678-HxCDF	60851-34-5	0.812 JB	0.147	11.1	1
10915	1234678-HpCDF	67562-39-4	2.19 JB	0.172	11.1	1
10915	1234789-HpCDF	55673-89-7	0.887 JB	0.185	11.1	1
10915	OCDF	39001-02-0	1.89 JB	0.298	22.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	46	25 - 164
13C12-12378-PeCDD	46	25 - 181
13C12-123478-HxCDD	41	32 - 141
13C12-123678-HxCDD	39	28 - 130
13C12-123789-HxCDD	39	28 - 130
13C12-1234678-HpCDD	33	23 - 140
13C12-OCDD	27	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	47	24 - 185
13C12-23478-PeCDF	48	21 - 178
13C12-123478-HxCDF	37	26 - 152
13C12-123678-HxCDF	37	26 - 123
13C12-234678-HxCDF	40	28 - 136
13C12-123789-HxCDF	44	29 - 147
13C12-1234678-HpCDF	32	28 - 143
13C12-1234789-HpCDF	32	26 - 138
13C12-OCDF	26	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB-053012 Water  
SSFL Phase 3 Soil Sampling  
EB

LLI Sample # WW 6672449  
LLI Group # 1312585  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/30/2012 15:00

CDM Federal Programs Corp.

Submitted: 05/31/2012 09:45

3201 Jermantown Road

Reported: 06/14/2012 14:21

Suite 400

Fairfax VA 22030

H1011 SDG#: PH010-11EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans day	10-15 EPA 1613B	1	12157001	06/08/2012 12:05	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12157001	06/05/2012 08:00	Deborah M Zimmerman	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/14/12 at 02:21 PM

Group Number: 1312585

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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Batch number: 12158162401A  
Moisture CDM

Sample number(s): 6672439-6672448

100 80-120

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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Batch number: 12157001

Sample number(s): 6672449

2378-TCDD	0.242	J	0.164	2.00	pg/l	102	67-158		
12378-PeCDD	0.388	J	0.129	10.0	pg/l	100	70-142		
123478-HxCDD	0.403	J	0.130	10.0	pg/l	94	70-164		
123678-HxCDD	0.538	J	0.138	10.0	pg/l	95	76-134		
123789-HxCDD	0.638	J	0.127	10.0	pg/l	100	64-162		
1234678-HpCDD	3.86	J	0.191	10.0	pg/l	98	70-140		
OCDD	5.92	J	0.171	20.0	pg/l	94	78-144		
2378-TCDF	0.110	U	0.110	2.00	pg/l	90	75-158		
12378-PeCDF	0.388	J	0.101	10.0	pg/l	95	80-134		
23478-PeCDF	0.649	J	0.0929	10.0	pg/l	91	68-160		
123478-HxCDF	0.595	J	0.0949	10.0	pg/l	97	72-134		
123678-HxCDF	0.452	J	0.0954	10.0	pg/l	98	84-130		
123789-HxCDF	0.738	J	0.0893	10.0	pg/l	96	78-130		
234678-HxCDF	0.644	J	0.0896	10.0	pg/l	94	70-156		
1234678-HpCDF	1.45	J	0.0981	10.0	pg/l	91	82-122		
1234789-HpCDF	0.838	J	0.112	10.0	pg/l	93	78-138		
OCDF	1.79	J	0.169	20.0	pg/l	95	63-170		

Batch number: 12160001

Sample number(s): 6672439-6672448

2378-TCDD	0.0231	U	0.0231	1.00	ng/kg	99	67-158		
12378-PeCDD	0.0464	J	0.0193	5.00	ng/kg	98	70-142		
123478-HxCDD	0.0458	J	0.0158	5.00	ng/kg	91	70-164		
123678-HxCDD	0.0454	J	0.0173	5.00	ng/kg	90	76-134		
123789-HxCDD	0.0440	J	0.0163	5.00	ng/kg	97	64-162		
1234678-HpCDD	0.212	J	0.0167	5.00	ng/kg	95	70-140		
OCDD	0.377	J	0.0187	10.0	ng/kg	92	78-144		
2378-TCDF	0.0389	J	0.0182	1.00	ng/kg	97	75-158		
12378-PeCDF	0.0582	J	0.0133	5.00	ng/kg	94	80-134		
23478-PeCDF	0.0681	J	0.0137	5.00	ng/kg	89	68-160		
123478-HxCDF	0.0492	J	0.0135	5.00	ng/kg	94	72-134		
123678-HxCDF	0.0342	J	0.0112	5.00	ng/kg	93	84-130		
123789-HxCDF	0.0747	J	0.0152	5.00	ng/kg	96	78-130		
234678-HxCDF	0.0615	J	0.0123	5.00	ng/kg	93	70-156		
1234678-HpCDF	0.0653	J	0.00772	5.00	ng/kg	88	82-122		
1234789-HpCDF	0.0446	J	0.0137	5.00	ng/kg	93	78-138		
OCDF	0.101	J	0.0160	10.0	ng/kg	93	63-170		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/14/12 at 02:21 PM

Group Number: 1312585

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12158162401A Moisture CDM	Sample number(s): 6672439-6672448				BKG: 6672443	12.3	12.5	2	20
Batch number: 12160001	Sample number(s): 6672439-6672448				UNSPK: P674181				
2378-TCDD	102	100	67-158	2	25				
12378-PeCDD	99	99	70-142	1	25				
123478-HxCDD	91	93	70-164	2	25				
123678-HxCDD	92	92	76-134	0	25				
123789-HxCDD	98	99	64-162	2	25				
1234678-HpCDD	93	89	70-140	4	25				
OCDD	71*	55*	78-144	12	25				
2378-TCDF	95	91	75-158	4	25				
12378-PeCDF	94	97	80-134	4	25				
23478-PeCDF	90	88	68-160	2	25				
123478-HxCDF	96	95	72-134	1	25				
123678-HxCDF	95	96	84-130	1	25				
123789-HxCDF	99	99	78-130	0	25				
234678-HxCDF	93	93	70-156	0	25				
1234678-HpCDF	87	89	82-122	2	25				
1234789-HpCDF	96	94	78-138	1	25				
OCDF	94	92	63-170	1	25				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b. Dioxins/Furans 10-15 day  
Batch number: 12157001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6672449	46	48	37	37	40	44
Blank	78	76	70	69	71	81
OPR	70	67	66	65	67	78
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6672449	32	32	26	46	41	39
Blank	65	62	52	79	73	73
OPR	63	61	53	69	69	67
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	

\*- Outside of specification

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## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/14/12 at 02:21 PM

Group Number: 1312585

### Surrogate Quality Control

6672449	39	33	27	50	47	
Blank	75	65	55	79	78	
OPR	68	65	56	69	70	
Limits:	28-130	23-140	17-157	24-169	24-185	
Analysis Name: 10a. Dioxins/Furans 10-15 day						
Batch number: 12160001						
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6672439	64	75	71	69	73	71
6672440	79	79	73	75	78	75
6672441	67	73	61	66	69	63
6672442	64	67	57	66	68	60
6672443	64	64	56	63	62	56
6672444	77	74	69	78	82	68
6672445	79	76	67	75	77	67
6672446	86	85	68	77	83	78
6672447	73	63	61	73	77	62
6672448	65	60	60	69	62	57
Blank	77	70	69	81	72	62
MS	71	72	64	74	73	59
MSD	73	74	68	73	76	64
OPR	66	60	61	72	67	53
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6672439	69	66	57	77	76	75
6672440	76	75	73	83	83	80
6672441	78	63	64	77	78	74
6672442	85	64	66	72	78	80
6672443	75	55	55	67	71	70
6672444	94	70	72	82	89	87
6672445	84	68	67	83	86	83
6672446	91	77	80	90	90	93
6672447	94	61	61	73	88	88
6672448	81	57	57	68	75	75
Blank	103	64	69	85	92	89
MS	90	56	55	83	83	82
MSD	84	60	58	81	82	81
OPR	91	57	60	73	83	84
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6672439	75	70	62	73	75	
6672440	82	81	80	75	80	
6672441	76	78	76	65	76	
6672442	78	81	86	58	72	
6672443	70	70	70	58	69	
6672444	85	89	92	69	82	
6672445	81	82	84	72	80	
6672446	92	93	98	78	94	
6672447	84	87	90	57	73	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/14/12 at 02:21 PM

Group Number: 1312585

### Surrogate Quality Control

6672448	73	74	77	56	67
Blank	90	94	100	64	80
MS	80	78	76	64	83
MSD	79	76	73	68	80
OPR	80	84	88	55	68
Limits:	28-130	23-140	17-157	24-169	24-185

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct# 13013 Cp# 1312585

# Sample# 6672439-49 SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 5/30/2012

Carrier Name: FedEx

Airbill No: 798453735989

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No: 20120530-02

Cooler #:

Lab: Lancaster

Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metal	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metal 6010 and 6020	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TC 8270	SVOC 8270	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PH 9045 (Soil)	PH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EPA 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energies 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Ore/north	Methyl Mercury 1630	Other Analysis/Notes												
SL-620-SA5C-SB-0.0-0.5	5/29/12 15:10	SO	None	1 - 4 oz. glass	10 day																																													
SL-723-SA5C-SB-0.0-0.5	5/29/12 10:05	SO	None	1 - 4 oz. glass	10 day																																													
SL-723-SA5C-SB-4.0-5.0	5/29/12 10:09	SO	None	1 - 4 oz. glass	10 day																																													
SL-723-SA5C-SB-9.0-10.0	5/29/12 10:13	SO	None	1 - 4 oz. glass	10 day																																													
SL-724-SA5C-SB-0.0-0.5	5/29/12 08:57	SO	None	1 - 4 oz. glass	10 day																																													
SL-724-SA5C-SB-4.0-5.0	5/29/12 09:00	SO	None	1 - 4 oz. glass	10 day																																													
SL-724-SA5C-SB-9.0-10.0	5/29/12 09:04	SO	None	1 - 4 oz. glass	10 day																																													
SL-750-SA5C-SB-0.0-0.5	5/29/12 11:47	SO	None	1 - 4 oz. glass	10 day																																													
SL-750-SA5C-SB-5.5-6.5	5/29/12 11:56	SO	None	1 - 4 oz. glass	10 day																																													
SL-752-SA5C-SB-0.0-0.5	5/30/12 08:28	SO	None	1 - 4 oz. glass	10 day																																													
EB-053012	5/30/12 15:00	WQ	None	2 - 1 L Amber	10 day																																													

*Formaldehyde was removed per TP. Num 513112*

Special Instructions: **SAMPLES TRANSFERRED FROM**  
**CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>P. V. ...</i>	05/12/12									

*Brendy Bundy 5-31-12 945*

**Nicole Maljovec**

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**From:** Pham, Tina V. [phamtv@cdmsmith.com]  
**Sent:** Thursday, May 31, 2012 4:12 PM  
**To:** Nicole Maljovec  
**Cc:** Hartman, Pamela  
**Subject:** RE: SSFL COC 5/30/12- is Formaldehyde EB really needed?  
**Attachments:** Lancaster 053012 COC.pdf

Nicole,

We did not collect any formaldehyde samples today. Do not include formaldehyde in the analysis. Attached is the updated COC. Thanks!

-Tina

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**From:** Nicole Maljovec [mailto:nmaljovec@lancasterlabs.com]  
**Sent:** Thursday, May 31, 2012 1:03 PM  
**To:** Pham, Tina V.  
**Subject:** SSFL COC 5/30/12- is Formaldehyde EB really needed?

Hi Tina,  
Did you collect any soils for formaldehyde today? If you didn't, do you need this equipment blank analyzed for formaldehyde? We haven't received any soils for this test since last week and there was an EB with those.

Please let me know if you need this ASAP. The extraction holding time is 3 days, so the sample will be extracted tonight.

Thanks!  
Nicole

---

**From:** Pham, Tina V. [mailto:phamtv@cdmsmith.com]  
**Sent:** Wednesday, May 30, 2012 5:52 PM  
**To:** Nicole Maljovec; SA Env Entry  
**Cc:** Hartman, Pamela  
**Subject:** SSFL COC 5/30/12

Nicole

Shipped one large cooler of Phase 3 samples (including EB).

Thanks!

**Tina Pham**

Environmental Engineer | CDM Smith | 100 Pringle Ave., Suite 300 | Walnut Creek, CA 94596 |  
**Office:** 925.296.8020 | **Cell:** 925.212.3312 | [phamtv@cdmsmith.com](mailto:phamtv@cdmsmith.com) | cdmsmith.com

5/31/2012

# SSFL Phase 3 Chain of Custody

**CDM Smith**  
 Date Shipped: 5/30/2012  
 Carrier Name: FedEx  
 Airbill No: 798453735989

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120530-02  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time		Other Analysis/Notes
SL-620-SA5C-SB-0.0-0.5	5/29/12 15:10	SO	None	1 - 4 oz. glass	10 day	X	
SL-723-SA5C-SB-0.0-0.5	5/29/12 10:05	SO	None	1 - 4 oz. glass	10 day	X	
SL-723-SA5C-SB-4.0-5.0	5/29/12 10:09	SO	None	1 - 4 oz. glass	10 day	X	
SL-723-SA5C-SB-9.0-10.0	5/29/12 10:13	SO	None	1 - 4 oz. glass	10 day	X	
SL-724-SA5C-SB-0.0-0.5	5/29/12 08:57	SO	None	1 - 4 oz. glass	10 day	X	
SL-724-SA5C-SB-4.0-5.0	5/29/12 09:00	SO	None	1 - 4 oz. glass	10 day	X	
SL-724-SA5C-SB-9.0-10.0	5/29/12 09:04	SO	None	1 - 4 oz. glass	10 day	X	
SL-750-SA5C-SB-0.0-0.5	5/29/12 11:47	SO	None	1 - 4 oz. glass	10 day	X	
SL-750-SA5C-SB-5.5-6.5	5/29/12 11:56	SO	None	1 - 4 oz. glass	10 day	X	
SL-752-SA5C-SB-0.0-0.5	5/30/12 08:28	SO	None	1 - 4 oz. glass	10 day	X	
EB-053012	5/30/12 15:00	WQ	None	2 - 1 L Amber	10 day	X	

Special Instructions:	<b>SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #</b>
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Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 15, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 06/01/2012

Group Number: 1312927

SDG: PH010

PO Number: 1203-004-009-AL

Release Number: TRACKING #12571

State of Sample Origin: CA

Client Sample Description

SL-621-SA5C-SB-0.0-0.5 Soil

EB-053112 Water

SL-611-SA5C-SB-0.0-0.5 Soil

SL-611-SA5C-SB-5.0-6.0 Soil

SL-613-SA5C-SB-4.0-5.0 Soil

SL-613-SA5C-SB-7.5-8.5 Soil

SL-614-SA5C-SB-0.0-0.5 Soil

SL-614-SA5C-SB-3.0-4.0 Soil

SL-612-SA5C-SB-4.0-5.0 Soil

SL-612-SA5C-SB-4.0-5.0 MS Soil

SL-612-SA5C-SB-4.0-5.0 MSD Soil

SL-612-SA5C-SB-7.0-8.0 Soil

SL-912-SA5C-SB-4.0-5.0 Soil

Lancaster Labs (LLI) #

6674173

6674174

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6674185

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO CDM Federal Services Program

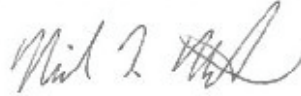
ELECTRONIC COPY TO

ELECTRONIC COPY TO Data Package Group

ELECTRONIC COPY TO

Attn: Todd Burgesser

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-621-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-621-SA5C-SB

LLI Sample # SW 6674173  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/30/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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H1012 SDG#: PH010-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-621-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-621-SA5C-SB

LLI Sample # SW 6674173  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/30/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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H1012 SDG#: PH010-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0449 J	0.0261	1.05	1
11031	12378-PeCDD	40321-76-4	0.0863 JB	0.0231	5.25	1
11031	123478-HxCDD	39227-28-6	0.0463 JB	0.0246	5.25	1
11031	123678-HxCDD	57653-85-7	0.176 JB	0.0252	5.25	1
11031	123789-HxCDD	19408-74-3	0.157 JB	0.0240	5.25	1
11031	1234678-HpCDD	35822-46-9	2.46 JB	0.0287	5.25	1
11031	OCDD	3268-87-9	17.7 B	0.0304	10.5	1
11031	2378-TCDF	51207-31-9	0.0656 JB	0.0167	1.05	1
11031	12378-PeCDF	57117-41-6	0.245 JB	0.0140	5.25	1
11031	23478-PeCDF	57117-31-4	0.118 JB	0.0129	5.25	1
11031	123478-HxCDF	70648-26-9	0.152 JBQ	0.0217	5.25	1
11031	123678-HxCDF	57117-44-9	0.122 JB	0.0196	5.25	1
11031	123789-HxCDF	72918-21-9	0.0532 JBQ	0.0217	5.25	1
11031	234678-HxCDF	60851-34-5	0.143 JB	0.0175	5.25	1
11031	1234678-HpCDF	67562-39-4	0.626 JB	0.0174	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0740 JB	0.0224	5.25	1
11031	OCDF	39001-02-0	0.831 JB	0.0273	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-621-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-621-SA5C-SB

**LLI Sample #** SW 6674173  
**LLI Group #** 1312927  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/30/2012 14:05

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Submitted: 06/01/2012 09:25

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H1012 SDG#: PH010-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-621-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-621-SA5C-SB

LLI Sample # SW 6674173  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/30/2012 14:05

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Submitted: 06/01/2012 09:25

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H1012 SDG#: PH010-12

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 17:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1

Sample Description: **EB-053112 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB**

LLI Sample # **WW 6674174**  
 LLI Group # **1312927**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 05/31/2012 15:15

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Submitted: 06/01/2012 09:25

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H1013 SDG#: PH010-13EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.407 JBQ	0.312	2.12	1
10915	12378-PeCDD	40321-76-4	0.880 JB	0.303	10.6	1
10915	123478-HxCDD	39227-28-6	0.478 JB	0.216	10.6	1
10915	123678-HxCDD	57653-85-7	0.229 U	0.229	10.6	1
10915	123789-HxCDD	19408-74-3	0.294 JB	0.215	10.6	1
10915	1234678-HpCDD	35822-46-9	4.77 JB	0.327	10.6	1
10915	OCDD	3268-87-9	10.5 JB	0.372	21.2	1
10915	2378-TCDF	51207-31-9	0.456 J	0.164	2.12	1
10915	12378-PeCDF	57117-41-6	0.258 JQ	0.203	10.6	1
10915	23478-PeCDF	57117-31-4	0.566 JB	0.178	10.6	1
10915	123478-HxCDF	70648-26-9	0.663 JB	0.152	10.6	1
10915	123678-HxCDF	57117-44-9	0.264 JBQ	0.152	10.6	1
10915	123789-HxCDF	72918-21-9	0.145 JBQ	0.141	10.6	1
10915	234678-HxCDF	60851-34-5	0.546 JB	0.136	10.6	1
10915	1234678-HpCDF	67562-39-4	0.866 JB	0.151	10.6	1
10915	1234789-HpCDF	55673-89-7	0.678 JBQ	0.182	10.6	1
10915	OCDF	39001-02-0	1.18 JB	0.301	21.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	37	25 - 164
13C12-12378-PeCDD	34	25 - 181
13C12-123478-HxCDD	34	32 - 141
13C12-123678-HxCDD	33	28 - 130
13C12-123789-HxCDD	34	28 - 130
13C12-1234678-HpCDD	32	23 - 140
13C12-OCDD	31	17 - 157
13C12-2378-TCDF	40	24 - 169
13C12-12378-PeCDF	33	24 - 185
13C12-23478-PeCDF	35	21 - 178
13C12-123478-HxCDF	32	26 - 152
13C12-123678-HxCDF	31	26 - 123
13C12-234678-HxCDF	34	28 - 136
13C12-123789-HxCDF	37	29 - 147
13C12-1234678-HpCDF	32	28 - 143
13C12-1234789-HpCDF	29	26 - 138
13C12-OCDF	28	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

Sample Description: **EB-053112 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB**

LLI Sample # **WW 6674174**  
 LLI Group # **1312927**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 05/31/2012 15:15

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H1013 SDG#: PH010-13EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501  
 The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans 10-15 day	EPA 1613B	1	12164002	06/15/2012 05:04	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	2	12164002	06/13/2012 08:40	Ginelle L Haines	1

**Sample Description:** SL-611-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-611-SA5C-SB

LLI Sample # SW 6674175  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 11:29

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Submitted: 06/01/2012 09:25

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H1014 SDG#: PH010-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-611-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-611-SA5C-SB

LLI Sample # SW 6674175  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 11:29

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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H1014 SDG#: PH010-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0323 JQ	0.0312	1.09	1
11031	12378-PeCDD	40321-76-4	0.0740 JBQ	0.0271	5.45	1
11031	123478-HxCDD	39227-28-6	0.127 JB	0.0433	5.45	1
11031	123678-HxCDD	57653-85-7	0.417 JB	0.0453	5.45	1
11031	123789-HxCDD	19408-74-3	0.299 JBQ	0.0418	5.45	1
11031	1234678-HpCDD	35822-46-9	15.2 B	0.0691	5.45	1
11031	OCDD	3268-87-9	271 B	0.0404	10.9	1
11031	2378-TCDF	51207-31-9	0.0371 JB	0.0261	1.09	1
11031	12378-PeCDF	57117-41-6	0.0905 JBQ	0.0209	5.45	1
11031	23478-PeCDF	57117-31-4	0.142 JB	0.0204	5.45	1
11031	123478-HxCDF	70648-26-9	0.102 JBQ	0.0334	5.45	1
11031	123678-HxCDF	57117-44-9	0.106 JB	0.0306	5.45	1
11031	123789-HxCDF	72918-21-9	0.152 JB	0.0339	5.45	1
11031	234678-HxCDF	60851-34-5	0.0545 JB	0.0279	5.45	1
11031	1234678-HpCDF	67562-39-4	1.35 JB	0.0356	5.45	1
11031	1234789-HpCDF	55673-89-7	0.196 JB	0.0378	5.45	1
11031	OCDF	39001-02-0	3.81 JB	0.0245	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	84	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	74	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-611-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-611-SA5C-SB

LLI Sample # SW 6674175  
 LLI Group # 1312927  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 11:29

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H1014 SDG#: PH010-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-611-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-611-SA5C-SB

LLI Sample # SW 6674175  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 11:29

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Submitted: 06/01/2012 09:25

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H1014 SDG#: PH010-14

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 05:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-611-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-611-SA5C-SB

LLI Sample # SW 6674176  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 11:33

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Submitted: 06/01/2012 09:25

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H1015 SDG#: PH010-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-611-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-611-SA5C-SB

LLI Sample # SW 6674176  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 11:33

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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H1015 SDG#: PH010-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0304 J	0.0206	1.11	1
11031	12378-PeCDD	40321-76-4	0.0634 JBQ	0.0166	5.57	1
11031	123478-HxCDD	39227-28-6	0.0245 JB	0.0153	5.57	1
11031	123678-HxCDD	57653-85-7	0.0496 JBQ	0.0157	5.57	1
11031	123789-HxCDD	19408-74-3	0.0531 JBQ	0.0155	5.57	1
11031	1234678-HpCDD	35822-46-9	0.633 JB	0.0245	5.57	1
11031	OCDD	3268-87-9	4.73 JB	0.0237	11.1	1
11031	2378-TCDF	51207-31-9	0.0210 JB	0.0132	1.11	1
11031	12378-PeCDF	57117-41-6	0.0304 JBQ	0.0120	5.57	1
11031	23478-PeCDF	57117-31-4	0.0618 JB	0.0108	5.57	1
11031	123478-HxCDF	70648-26-9	0.0325 JBQ	0.0100	5.57	1
11031	123678-HxCDF	57117-44-9	0.0282 JBQ	0.00905	5.57	1
11031	123789-HxCDF	72918-21-9	0.0208 JBQ	0.00968	5.57	1
11031	234678-HxCDF	60851-34-5	0.0384 JB	0.00877	5.57	1
11031	1234678-HpCDF	67562-39-4	0.142 JB	0.0108	5.57	1
11031	1234789-HpCDF	55673-89-7	0.0245 JB	0.0127	5.57	1
11031	OCDF	39001-02-0	0.204 JB	0.0182	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	71	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-611-SA5C-SB-5.0-6.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-611-SA5C-SB

**LLI Sample #** SW 6674176  
**LLI Group #** 1312927  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 11:33

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

3201 Jermantown Road

Reported: 06/15/2012 12:23

Suite 400

Fairfax VA 22030

H1015 SDG#: PH010-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-611-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-611-SA5C-SB

LLI Sample # SW 6674176  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 11:33

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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Fairfax VA 22030

H1015 SDG#: PH010-15

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 06:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-613-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-613-SA5C-SB

LLI Sample # SW 6674177  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 10:15

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

3201 Jermantown Road

Reported: 06/15/2012 12:23

Suite 400

Fairfax VA 22030

H1016 SDG#: PH010-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-613-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-613-SA5C-SB

LLI Sample # SW 6674177  
LLI Group # 1312927  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/31/2012 10:15

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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H1016 SDG#: PH010-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0325 JQ	0.0257	1.06	1
11031	12378-PeCDD	40321-76-4	0.121 JB	0.0191	5.32	1
11031	123478-HxCDD	39227-28-6	0.0355 JB	0.0192	5.32	1
11031	123678-HxCDD	57653-85-7	0.0691 JB	0.0200	5.32	1
11031	123789-HxCDD	19408-74-3	0.0763 JBQ	0.0194	5.32	1
11031	1234678-HpCDD	35822-46-9	0.652 JB	0.0261	5.32	1
11031	OCDD	3268-87-9	3.50 JB	0.0260	10.6	1
11031	2378-TCDF	51207-31-9	0.0298 JB	0.0166	1.06	1
11031	12378-PeCDF	57117-41-6	0.0830 JB	0.0135	5.32	1
11031	23478-PeCDF	57117-31-4	0.0952 JBQ	0.0135	5.32	1
11031	123478-HxCDF	70648-26-9	0.0595 JB	0.0130	5.32	1
11031	123678-HxCDF	57117-44-9	0.0620 JB	0.00999	5.32	1
11031	123789-HxCDF	72918-21-9	0.0699 JB	0.0132	5.32	1
11031	234678-HxCDF	60851-34-5	0.0604 JB	0.00975	5.32	1
11031	1234678-HpCDF	67562-39-4	0.130 JB	0.0107	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0305 JBQ	0.0177	5.32	1
11031	OCDF	39001-02-0	0.292 JB	0.0272	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	86	17 - 157
13C12-2378-TCDF	62	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	59	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-613-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-613-SA5C-SB

LLI Sample # SW 6674177  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 10:15

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H1016 SDG#: PH010-16

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-613-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-613-SA5C-SB

LLI Sample # SW 6674177  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 10:15

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H1016 SDG#: PH010-16

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 07:36	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-613-SA5C-SB-7.5-8.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-613-SA5C-SB

LLI Sample # SW 6674178  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 10:21

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Submitted: 06/01/2012 09:25

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H1017 SDG#: PH010-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-613-SA5C-SB-7.5-8.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-613-SA5C-SB

LLI Sample # SW 6674178  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 10:21

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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H1017 SDG#: PH010-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0855 J	0.0217	1.07	1
11031	12378-PeCDD	40321-76-4	0.154 JBQ	0.0163	5.37	1
11031	123478-HxCDD	39227-28-6	0.0801 JB	0.0141	5.37	1
11031	123678-HxCDD	57653-85-7	0.115 JB	0.0150	5.37	1
11031	123789-HxCDD	19408-74-3	0.0808 JB	0.0145	5.37	1
11031	1234678-HpCDD	35822-46-9	0.250 JB	0.0178	5.37	1
11031	OCDD	3268-87-9	0.451 JB	0.0176	10.7	1
11031	2378-TCDF	51207-31-9	0.0719 JBQ	0.0122	1.07	1
11031	12378-PeCDF	57117-41-6	0.158 JB	0.0112	5.37	1
11031	23478-PeCDF	57117-31-4	0.142 JB	0.0103	5.37	1
11031	123478-HxCDF	70648-26-9	0.0745 JB	0.0119	5.37	1
11031	123678-HxCDF	57117-44-9	0.0721 JBQ	0.0107	5.37	1
11031	123789-HxCDF	72918-21-9	0.0421 JBQ	0.0113	5.37	1
11031	234678-HxCDF	60851-34-5	0.0499 JB	0.00973	5.37	1
11031	1234678-HpCDF	67562-39-4	0.0720 JBQ	0.00890	5.37	1
11031	1234789-HpCDF	55673-89-7	0.0208 JBQ	0.0125	5.37	1
11031	OCDF	39001-02-0	0.0783 JBQ	0.0132	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	61	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	69	21 - 178
13C12-123478-HxCDF	62	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	69	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-613-SA5C-SB-7.5-8.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-613-SA5C-SB

LLI Sample # SW 6674178  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 10:21

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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H1017 SDG#: PH010-17

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-613-SA5C-SB-7.5-8.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-613-SA5C-SB

LLI Sample # SW 6674178  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 10:21

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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H1017 SDG#: PH010-17

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 08:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-614-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-614-SA5C-SB

LLI Sample # SW 6674179  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 08:56

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

3201 Jermantown Road

Reported: 06/15/2012 12:23

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Fairfax VA 22030

H1018 SDG#: PH010-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	3.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-614-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-614-SA5C-SB

LLI Sample # SW 6674179  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 08:56

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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Fairfax VA 22030

H1018 SDG#: PH010-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0771 JQ	0.0192	1.01	1
11031	12378-PeCDD	40321-76-4	0.185 JB	0.0219	5.04	1
11031	123478-HxCDD	39227-28-6	0.153 JBQ	0.0324	5.04	1
11031	123678-HxCDD	57653-85-7	0.389 JB	0.0346	5.04	1
11031	123789-HxCDD	19408-74-3	0.339 JB	0.0329	5.04	1
11031	1234678-HpCDD	35822-46-9	7.57 B	0.0379	5.04	1
11031	OCDD	3268-87-9	67.5 B	0.0323	10.1	1
11031	2378-TCDF	51207-31-9	0.140 JB	0.0254	1.01	1
11031	12378-PeCDF	57117-41-6	0.232 JB	0.0217	5.04	1
11031	23478-PeCDF	57117-31-4	0.218 JB	0.0205	5.04	1
11031	123478-HxCDF	70648-26-9	0.402 JB	0.0335	5.04	1
11031	123678-HxCDF	57117-44-9	0.155 JB	0.0304	5.04	1
11031	123789-HxCDF	72918-21-9	0.0625 JB	0.0276	5.04	1
11031	234678-HxCDF	60851-34-5	0.167 JB	0.0242	5.04	1
11031	1234678-HpCDF	67562-39-4	1.37 JB	0.0203	5.04	1
11031	1234789-HpCDF	55673-89-7	0.122 JB	0.0213	5.04	1
11031	OCDF	39001-02-0	2.92 JB	0.0249	10.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	64	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	66	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-614-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-614-SA5C-SB

**LLI Sample #** SW 6674179  
**LLI Group #** 1312927  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 08:56

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Submitted: 06/01/2012 09:25

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H1018 SDG#: PH010-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-614-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-614-SA5C-SB

**LLI Sample #** SW 6674179  
**LLI Group #** 1312927  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 08:56

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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Fairfax VA 22030

H1018 SDG#: PH010-18

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 18:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-614-SA5C-SB-3.0-4.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-614-SA5C-SB

LLI Sample # SW 6674180  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 09:20

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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H1019 SDG#: PH010-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-614-SA5C-SB-3.0-4.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-614-SA5C-SB

LLI Sample # SW 6674180  
LLI Group # 1312927  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/31/2012 09:20

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

3201 Jermantown Road

Reported: 06/15/2012 12:23

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Fairfax VA 22030

H1019 SDG#: PH010-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0214 U	0.0214	1.07	1
11031	12378-PeCDD	40321-76-4	0.0453 JBQ	0.0165	5.35	1
11031	123478-HxCDD	39227-28-6	0.0503 JBQ	0.0159	5.35	1
11031	123678-HxCDD	57653-85-7	0.0625 JB	0.0166	5.35	1
11031	123789-HxCDD	19408-74-3	0.0313 JBQ	0.0155	5.35	1
11031	1234678-HpCDD	35822-46-9	0.335 JB	0.0191	5.35	1
11031	OCDD	3268-87-9	1.05 JB	0.0181	10.7	1
11031	2378-TCDF	51207-31-9	0.0225 JBQ	0.0146	1.07	1
11031	12378-PeCDF	57117-41-6	0.0633 JB	0.0112	5.35	1
11031	23478-PeCDF	57117-31-4	0.0534 JB	0.0108	5.35	1
11031	123478-HxCDF	70648-26-9	0.0378 JBQ	0.0105	5.35	1
11031	123678-HxCDF	57117-44-9	0.0332 JB	0.00921	5.35	1
11031	123789-HxCDF	72918-21-9	0.0678 JB	0.00998	5.35	1
11031	234678-HxCDF	60851-34-5	0.0567 JB	0.00920	5.35	1
11031	1234678-HpCDF	67562-39-4	0.0502 JBQ	0.00781	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0396 JB	0.0103	5.35	1
11031	OCDF	39001-02-0	0.105 JB	0.0142	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	79	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-614-SA5C-SB-3.0-4.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-614-SA5C-SB

LLI Sample # SW 6674180  
 LLI Group # 1312927  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 09:20

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Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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H1019 SDG#: PH010-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-614-SA5C-SB-3.0-4.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-614-SA5C-SB

LLI Sample # SW 6674180  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 09:20

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Submitted: 06/01/2012 09:25

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Fairfax VA 22030

H1019 SDG#: PH010-19

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 10:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-612-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6674181  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 14:54

CDM Federal Programs Corp.

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H1020 SDG#: PH010-20BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-612-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6674181  
LLI Group # 1312927  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/31/2012 14:54

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H1020 SDG#: PH010-20BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0247	U	0.0247	1.14	1
11031	12378-PeCDD	40321-76-4	0.141	JB	0.0265	5.72	1
11031	123478-HxCDD	39227-28-6	0.175	JB	0.0333	5.72	1
11031	123678-HxCDD	57653-85-7	0.573	JB	0.0348	5.72	1
11031	123789-HxCDD	19408-74-3	0.395	JB	0.0337	5.72	1
11031	1234678-HpCDD	35822-46-9	11.9	B	0.0391	5.72	1
11031	OCDD	3268-87-9	147	B	0.0326	11.4	1
11031	2378-TCDF	51207-31-9	0.0479	JB	0.0261	1.14	1
11031	12378-PeCDF	57117-41-6	0.200	JB	0.0208	5.72	1
11031	23478-PeCDF	57117-31-4	0.165	JB	0.0225	5.72	1
11031	123478-HxCDF	70648-26-9	0.191	JB	0.0283	5.72	1
11031	123678-HxCDF	57117-44-9	0.170	JB	0.0236	5.72	1
11031	123789-HxCDF	72918-21-9	0.193	JB	0.0307	5.72	1
11031	234678-HxCDF	60851-34-5	0.194	JBQ	0.0244	5.72	1
11031	1234678-HpCDF	67562-39-4	1.31	JB	0.0153	5.72	1
11031	1234789-HpCDF	55673-89-7	0.221	JB	0.0276	5.72	1
11031	OCDF	39001-02-0	2.95	JB	0.0251	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	70	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	68	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	49	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-612-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-612-SA5C-SB

LLI Sample # SW 6674181  
 LLI Group # 1312927  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 14:54

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Submitted: 06/01/2012 09:25

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H1020 SDG#: PH010-20BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-612-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6674181  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 14:54

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H1020 SDG#: PH010-20BKG

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 19:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-612-SA5C-SB-4.0-5.0 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-612-SA5C-SB

LLI Sample # SW 6674182  
 LLI Group # 1312927  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 14:54

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H1020 SDG#: PH010-20MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 13.1	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

Sample Description: SL-612-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6674182  
LLI Group # 1312927  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/31/2012 14:54

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H1020 SDG#: PH010-20MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>					<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>					<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	23.2		0.0321	1.13	1
11031	12378-PeCDD	40321-76-4	112	B	0.0392	5.67	1
11031	123478-HxCDD	39227-28-6	104	B	0.0439	5.67	1
11031	123678-HxCDD	57653-85-7	105	B	0.0456	5.67	1
11031	123789-HxCDD	19408-74-3	111	B	0.0452	5.67	1
11031	1234678-HpCDD	35822-46-9	118	B	0.0526	5.67	1
11031	OCDD	3268-87-9	308	B	0.0285	11.3	1
11031	2378-TCDF	51207-31-9	21.6	B	0.0409	1.13	1
11031	12378-PeCDF	57117-41-6	107	B	0.0361	5.67	1
11031	23478-PeCDF	57117-31-4	102	B	0.0365	5.67	1
11031	123478-HxCDF	70648-26-9	109	B	0.0470	5.67	1
11031	123678-HxCDF	57117-44-9	108	B	0.0391	5.67	1
11031	123789-HxCDF	72918-21-9	113	B	0.0525	5.67	1
11031	234678-HxCDF	60851-34-5	106	B	0.0399	5.67	1
11031	1234678-HpCDF	67562-39-4	99.9	B	0.0322	5.67	1
11031	1234789-HpCDF	55673-89-7	109	B	0.0573	5.67	1
11031	OCDF	39001-02-0	216	B	0.0302	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	55	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-612-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6674182  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 14:54

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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H1020 SDG#: PH010-20MS

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-612-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6674182  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 14:54

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

3201 Jermantown Road

Reported: 06/15/2012 12:23

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H1020 SDG#: PH010-20MS

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 20:25	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-612-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6674183  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 14:54

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H1020 SDG#: PH010-20MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11625	Moisture CDM	n.a.	13.1	0.50	0.50	1
11626	Moisture Duplicate CDM	n.a.	12.4	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

Sample Description: SL-612-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6674183  
LLI Group # 1312927  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/31/2012 14:54

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H1020 SDG#: PH010-20MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>					<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>					<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	22.9		0.0292	1.14	1
11031	12378-PeCDD	40321-76-4	113	B	0.0287	5.69	1
11031	123478-HxCDD	39227-28-6	106	B	0.0389	5.69	1
11031	123678-HxCDD	57653-85-7	105	B	0.0412	5.69	1
11031	123789-HxCDD	19408-74-3	113	B	0.0405	5.69	1
11031	1234678-HpCDD	35822-46-9	113	B	0.0416	5.69	1
11031	OCDD	3268-87-9	272	B	0.0268	11.4	1
11031	2378-TCDF	51207-31-9	20.8	B	0.0358	1.14	1
11031	12378-PeCDF	57117-41-6	111	B	0.0296	5.69	1
11031	23478-PeCDF	57117-31-4	100	B	0.0288	5.69	1
11031	123478-HxCDF	70648-26-9	108	B	0.0540	5.69	1
11031	123678-HxCDF	57117-44-9	110	B	0.0494	5.69	1
11031	123789-HxCDF	72918-21-9	113	B	0.0569	5.69	1
11031	234678-HxCDF	60851-34-5	106	B	0.0459	5.69	1
11031	1234678-HpCDF	67562-39-4	102	B	0.0346	5.69	1
11031	1234789-HpCDF	55673-89-7	108	B	0.0525	5.69	1
11031	OCDF	39001-02-0	213	B	0.0285	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	58	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-612-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6674183  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 14:54

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Reported: 06/15/2012 12:23

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H1020 SDG#: PH010-20MSD

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-612-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

**LLI Sample #** SW 6674183  
**LLI Group #** 1312927  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 14:54

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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Fairfax VA 22030

H1020 SDG#: PH010-20MSD

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 21:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1
11626	Moisture Duplicate CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-612-SA5C-SB-7.0-8.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6674184  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 15:08

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

3201 Jermantown Road

Reported: 06/15/2012 12:23

Suite 400

Fairfax VA 22030

H1021 SDG#: PH010-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	20.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-612-SA5C-SB-7.0-8.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6674184  
LLI Group # 1312927  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/31/2012 15:08

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

3201 Jermantown Road

Reported: 06/15/2012 12:23

Suite 400

Fairfax VA 22030

H1021 SDG#: PH010-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0254 U	0.0254	1.21	1
11031	12378-PeCDD	40321-76-4	0.0634 JB	0.0202	6.04	1
11031	123478-HxCDD	39227-28-6	0.0322 JBQ	0.0180	6.04	1
11031	123678-HxCDD	57653-85-7	0.0911 JBQ	0.0199	6.04	1
11031	123789-HxCDD	19408-74-3	0.111 JB	0.0196	6.04	1
11031	1234678-HpCDD	35822-46-9	0.425 JB	0.0234	6.04	1
11031	OCDD	3268-87-9	1.46 JB	0.0200	12.1	1
11031	2378-TCDF	51207-31-9	0.0483 JBQ	0.0203	1.21	1
11031	12378-PeCDF	57117-41-6	0.0806 JBQ	0.0132	6.04	1
11031	23478-PeCDF	57117-31-4	0.0910 JB	0.0142	6.04	1
11031	123478-HxCDF	70648-26-9	0.0421 JB	0.0130	6.04	1
11031	123678-HxCDF	57117-44-9	0.0502 JB	0.0105	6.04	1
11031	123789-HxCDF	72918-21-9	0.276 JB	0.0151	6.04	1
11031	234678-HxCDF	60851-34-5	0.0365 JBQ	0.0110	6.04	1
11031	1234678-HpCDF	67562-39-4	0.0582 JB	0.00861	6.04	1
11031	1234789-HpCDF	55673-89-7	0.0572 JB	0.0182	6.04	1
11031	OCDF	39001-02-0	0.175 JBQ	0.0248	12.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	63	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	72	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	50	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-612-SA5C-SB-7.0-8.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-612-SA5C-SB

**LLI Sample #** SW 6674184  
**LLI Group #** 1312927  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 15:08

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

3201 Jermantown Road

Reported: 06/15/2012 12:23

Suite 400  
 Fairfax VA 22030

H1021 SDG#: PH010-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-612-SA5C-SB-7.0-8.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-612-SA5C-SB

LLI Sample # SW 6674184  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 15:08

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

3201 Jermantown Road

Reported: 06/15/2012 12:23

Suite 400

Fairfax VA 22030

H1021 SDG#: PH010-21

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 22:18	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1

**Sample Description:** SL-912-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-912-SA5C-SB

LLI Sample # SW 6674185  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 14:58

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

3201 Jermantown Road

Reported: 06/15/2012 12:23

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Fairfax VA 22030

H1022 SDG#: PH010-22\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-912-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-912-SA5C-SB

LLI Sample # SW 6674185  
LLI Group # 1312927  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 05/31/2012 14:58

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

3201 Jermantown Road

Reported: 06/15/2012 12:23

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H1022 SDG#: PH010-22\*

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0800	J	0.0226	1.06	1
11031	12378-PeCDD	40321-76-4	0.322	JB	0.0284	5.28	1
11031	123478-HxCDD	39227-28-6	0.532	JB	0.0376	5.28	1
11031	123678-HxCDD	57653-85-7	2.20	JB	0.0391	5.28	1
11031	123789-HxCDD	19408-74-3	1.08	JB	0.0360	5.28	1
11031	1234678-HpCDD	35822-46-9	51.2	B	0.0699	5.28	1
11031	OCDD	3268-87-9	592	B	0.0337	10.6	1
11031	2378-TCDF	51207-31-9	0.215	JB	0.0477	1.06	1
11031	12378-PeCDF	57117-41-6	0.312	JB	0.0297	5.28	1
11031	23478-PeCDF	57117-31-4	0.330	JB	0.0301	5.28	1
11031	123478-HxCDF	70648-26-9	0.546	JB	0.0444	5.28	1
11031	123678-HxCDF	57117-44-9	0.391	JB	0.0350	5.28	1
11031	123789-HxCDF	72918-21-9	0.263	JB	0.0341	5.28	1
11031	234678-HxCDF	60851-34-5	0.555	JB	0.0272	5.28	1
11031	1234678-HpCDF	67562-39-4	4.87	JB	0.0313	5.28	1
11031	1234789-HpCDF	55673-89-7	0.397	JB	0.0366	5.28	1
11031	OCDF	39001-02-0	10.4	JB	0.0227	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	49	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	70	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	60	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-912-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-912-SA5C-SB

LLI Sample # SW 6674185  
 LLI Group # 1312927  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 14:58

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

3201 Jermantown Road

Reported: 06/15/2012 12:23

Suite 400

Fairfax VA 22030

H1022 SDG#: PH010-22\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-912-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-912-SA5C-SB

LLI Sample # SW 6674185  
LLI Group # 1312927  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 05/31/2012 14:58

CDM Federal Programs Corp.

Submitted: 06/01/2012 09:25

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H1022 SDG#: PH010-22\*

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the temperature blank bottle(s) upon receipt at the lab was >10C using a Hg thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 7.8-16.4 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12160001	06/12/2012 23:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12160001	06/08/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12158162401B	06/06/2012 11:39	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/15/12 at 12:23 PM

Group Number: 1312927

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12158162401B	Sample number(s): 6674173,6674175-6674185								
Moisture CDM					100		80-120		
Moisture CDM					100		80-120		
Moisture Duplicate CDM					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12160001	Sample number(s): 6674173,6674175-6674185								
2378-TCDD	0.0231 U	0.0231	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0464 J	0.0193	5.00	ng/kg	98		70-142		
123478-HxCDD	0.0458 J	0.0158	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0454 J	0.0173	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0440 J	0.0163	5.00	ng/kg	97		64-162		
1234678-HpCDD	0.212 J	0.0167	5.00	ng/kg	95		70-140		
OCDD	0.377 J	0.0187	10.0	ng/kg	92		78-144		
2378-TCDF	0.0389 J	0.0182	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0582 J	0.0133	5.00	ng/kg	94		80-134		
23478-PeCDF	0.0681 J	0.0137	5.00	ng/kg	89		68-160		
123478-HxCDF	0.0492 J	0.0135	5.00	ng/kg	94		72-134		
123678-HxCDF	0.0342 J	0.0112	5.00	ng/kg	93		84-130		
123789-HxCDF	0.0747 J	0.0152	5.00	ng/kg	96		78-130		
234678-HxCDF	0.0615 J	0.0123	5.00	ng/kg	93		70-156		
1234678-HpCDF	0.0653 J	0.00772	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0446 J	0.0137	5.00	ng/kg	93		78-138		
OCDF	0.101 J	0.0160	10.0	ng/kg	93		63-170		

Batch number: 12164002	Sample number(s): 6674174								
2378-TCDD	0.286 J	0.193	2.00	pg/l	97		67-158		
12378-PeCDD	0.366 J	0.148	10.0	pg/l	96		70-142		
123478-HxCDD	0.179 J	0.117	10.0	pg/l	90		70-164		
123678-HxCDD	0.241 J	0.123	10.0	pg/l	88		76-134		
123789-HxCDD	0.219 J	0.120	10.0	pg/l	94		64-162		
1234678-HpCDD	2.74 J	0.170	10.0	pg/l	93		70-140		
OCDD	5.14 J	0.211	20.0	pg/l	91		78-144		
2378-TCDF	0.126 U	0.126	2.00	pg/l	87		75-158		
12378-PeCDF	0.105 U	0.105	10.0	pg/l	92		80-134		
23478-PeCDF	0.313 J	0.0932	10.0	pg/l	86		68-160		
123478-HxCDF	0.173 J	0.0690	10.0	pg/l	95		72-134		
123678-HxCDF	0.111 J	0.0673	10.0	pg/l	95		84-130		
123789-HxCDF	0.173 J	0.0595	10.0	pg/l	95		78-130		
234678-HxCDF	0.180 J	0.0648	10.0	pg/l	94		70-156		
1234678-HpCDF	0.593 J	0.0623	10.0	pg/l	88		82-122		
1234789-HpCDF	0.213 J	0.0722	10.0	pg/l	90		78-138		
OCDF	0.562 J	0.138	20.0	pg/l	92		63-170		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/15/12 at 12:23 PM

Group Number: 1312927

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12158162401B	Sample number(s): 6674173,6674175-6674185 BKG: 6674181							
Moisture CDM					13.1	12.4	6	20
Moisture CDM					13.1	12.4	6	20
Moisture Duplicate CDM					13.1	12.4	6	20
Batch number: 12160001	Sample number(s): 6674173,6674175-6674185 UNSPK: 6674181							
2378-TCDD	102	100	67-158	2	25			
12378-PeCDD	99	99	70-142	1	25			
123478-HxCDD	91	93	70-164	2	25			
123678-HxCDD	92	92	76-134	0	25			
123789-HxCDD	98	99	64-162	2	25			
1234678-HpCDD	93	89	70-140	4	25			
OCDD	71*	55*	78-144	12	25			
2378-TCDF	95	91	75-158	4	25			
12378-PeCDF	94	97	80-134	4	25			
23478-PeCDF	90	88	68-160	2	25			
123478-HxCDF	96	95	72-134	1	25			
123678-HxCDF	95	96	84-130	1	25			
123789-HxCDF	99	99	78-130	0	25			
234678-HxCDF	93	93	70-156	0	25			
1234678-HpCDF	87	89	82-122	2	25			
1234789-HpCDF	96	94	78-138	1	25			
OCDF	94	92	63-170	1	25			

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12160001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6674173	77	81	70	73	81	70
6674175	82	78	64	69	75	71
6674176	81	81	74	75	81	75
6674177	71	73	61	73	75	59
6674178	61	69	62	69	73	69
6674179	76	81	57	64	76	72
6674180	75	76	74	79	81	76
6674181	72	73	61	73	68	57
6674182	71	72	64	74	73	59
6674183	73	74	68	73	76	64
6674184	69	70	63	74	72	56

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/15/12 at 12:23 PM

Group Number: 1312927

### Surrogate Quality Control

6674185	75	80	49	60	75	66
Blank	77	70	69	81	72	62
MS	71	72	64	74	73	59
MSD	73	74	68	73	76	64
OPR	66	60	61	72	67	53
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6674173	77	69	62	85	81	79
6674175	73	73	74	82	78	80
6674176	79	74	71	86	86	82
6674177	95	60	59	84	87	84
6674178	87	68	69	76	77	79
6674179	66	67	64	85	78	79
6674180	92	77	79	84	87	85
6674181	88	54	49	83	80	78
6674182	90	56	55	83	83	82
6674183	84	60	58	81	82	81
6674184	97	54	50	84	91	86
6674185	70	63	60	83	79	79
Blank	103	64	69	85	92	89
MS	90	56	55	83	83	82
MSD	84	60	58	81	82	81
OPR	91	57	60	73	83	84
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6674173	79	76	70	76	83	
6674175	81	83	84	76	83	
6674176	83	80	79	79	83	
6674177	83	85	86	62	82	
6674178	79	85	89	58	71	
6674179	78	74	70	73	82	
6674180	87	90	95	69	81	
6674181	78	75	70	65	84	
6674182	80	78	76	64	83	
6674183	79	76	73	68	80	
6674184	83	82	78	61	81	
6674185	78	78	78	73	87	
Blank	90	94	100	64	80	
MS	80	78	76	64	83	
MSD	79	76	73	68	80	
OPR	80	84	88	55	68	
Limits:	28-130	23-140	17-157	24-169	24-185	
Analysis Name:	10b. Dioxins/Furans 10-15 day					
Batch number:	12164002					
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6674174	37	35	32	31	34	37
Blank	80	97	76	76	77	87
OPR	81	94	78	77	76	87

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/15/12 at 12:23 PM

Group Number: 1312927

### Surrogate Quality Control

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6674174	32	29	28	34	34	33
Blank	72	70	60	96	81	80
OPR	74	71	63	96	81	82
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6674174	34	32	31	40	33	
Blank	78	74	63	83	92	
OPR	82	77	68	79	93	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct#13013 Cop#1312927

Sample# 6674173-85  
**SSFL Phase 3 Chain of Custody**


CDM Smith  
 Date Shipped: 5/31/2012  
 Carrier Name: FedEx  
 Airbill No: 793628614605

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120531-02  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	SIOC 8270	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GRO 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terpenols 8015	Nitrates 300.0/9056	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Oxranolin	Methyl Mercury 1630	Other Analysis/Notes								
SL-621-SA5C-SB-0.0-0.5	5/30/12 14:05	SO	None	1 - 4 oz glass	10 day																																								
EB-053112	5/31/12 15:15	WQ	None	2 - 1 L Amber	10 day																																								
SL-611-SA5C-SB-0.0-0.5	5/31/12 11:29	SO	None	1 - 4 oz glass	10 day																																								
SL-611-SA5C-SB-5.0-6.0	5/31/12 11:33	SO	None	1 - 4 oz glass	10 day																																								
SL-613-SA5C-SB-4.0-5.0	5/31/12 10:15	SO	None	1 - 4 oz glass	10 day																																								
SL-613-SA5C-SB-7.5-8.5	5/31/12 10:21	SO	None	1 - 4 oz glass	10 day																																								
SL-614-SA5C-SB-0.0-0.5	5/31/12 08:56	SO	None	1 - SS-Sieve	10 day																																								
SL-614-SA5C-SB-3.0-4.0	5/31/12 09:20	SO	None	1 - 4 oz glass	10 day																																								
SL-612-SA5C-SB-4.0-5.0MS	5/31/12 14:54	SO	None	1 - 8 oz glass	10 day																																								
SL-612-SA5C-SB-7.0-8.0	5/31/12 15:08	SO	None	1 - 4 oz glass	10 day																																								
SL-912-SA5C-SB-4.0-5.0	5/31/12 14:58	SO	None	1 - 4 oz glass	10 day																																								

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
		5/31/12									

*Brandy Co-110 925*  
*Brandy*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 14, 2012

Project: SSFL Phase 3 Sampling

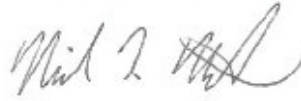
Submittal Date: 06/05/2012  
Group Number: 1313381  
SDG: PT008  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-573-SA5C-SB-0.0-0.5 Soil  
SL-573-SA5C-SB-4.0-5.0 Soil  
SL-573-SA5C-SB-9.0-10.0 SoilLancaster Labs (LLI) #6676279  
6676280  
6676281

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
1 COPY TO      Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-573-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-573-SA5C-SB

LLI Sample # SW 6676279  
LLI Group # 1313381  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 10:30

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/14/2012 13:34

Suite 400

Fairfax VA 22030

57300 SDG#: PT008-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,400	U 1,400	3,400	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121630004A	06/13/2012 17:05	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121630004A	06/11/2012 19:00	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-573-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-573-SA5C-SB

LLI Sample # SW 6676280  
LLI Group # 1313381  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 10:40

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/14/2012 13:34

Suite 400

Fairfax VA 22030

57340 SDG#: PT008-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,400	U 1,400	3,400	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	12.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121630004A	06/13/2012 17:34	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121630004A	06/11/2012 19:00	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-573-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-573-SA5C-SB

LLI Sample # SW 6676281  
LLI Group # 1313381  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 10:45

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/14/2012 13:34

Suite 400

Fairfax VA 22030

57390 SDG#: PT008-03\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,400	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121630004A	06/13/2012 17:43	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121630004A	06/11/2012 19:00	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/14/12 at 01:34 PM

Group Number: 1313381

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121630004A 20a Formaldehyde 8315A	1,200 U	1,200.	3,000	ug/kg	96		80-126		
Batch number: 12165162401A Moisture Content by 160.3					100		80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121630004A 20a Formaldehyde 8315A	95	83	80-120	14	50				
Batch number: 12165162401A Moisture Content by 160.3						BKG: P684329 7.7	7.2	7	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121630004A  
Butyraldehyde

6676279	80
6676280	91
6676281	87
Blank	116
LCS	102
MS	105
MSD	102

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

**Quality Control Summary**

Client Name: CDM Federal Programs Corp.  
Reported: 06/14/12 at 01:34 PM

Group Number: 1313381

**Surrogate Quality Control**

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

# SSFL Phase 3 Chain of Custody

13013 1313381 6676279-81

CDM Smith  
 Date Shipped: 6/4/2012  
 Carrier Name: FedEx  
 Airbill No: 7984 7010 1792

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120604-02  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Other Analysis/Notes
SL-564-SA5C-SB-0.0-0.5	6/4/12 11:30	SO	None	1 - 4 oz glass	10 day	
SL-564-SA5C-SB-4.0-5.0	6/4/12 11:35	SO	None	1 - 4 oz glass	10 day	
SL-564-SA5C-SB-9.0-10.0	6/4/12 11:37	SO	None	1 - 4 oz glass	10 day	
SL-573-SA5C-SB-0.0-0.5	6/4/12 10:30	SO	None	1 - 4 oz glass	10 day	
SL-573-SA5C-SB-4.0-5.0	6/4/12 10:40	SO	None	1 - 8 oz glass	10 day	X
SL-573-SA5C-SB-9.0-10.0	6/4/12 10:45	SO	None	1 - 4 oz glass	10 day	X
SL-565-SA5C-SB-0.0-0.5	6/4/12 01:27	SO	None	1 - 4 oz glass	10 day	X
SL-565-SA5C-SB-4.0-5.0	6/4/12 01:30	SO	None	1 - 4 oz glass	10 day	
SL-565-SA5C-SB-9.0-10.0	6/4/12 01:35	SO	None	1 - 4 oz glass	10 day	
SL-566-SA5C-SB-4.0-5.0	6/4/12 02:12	SO	None	1 - 4 oz glass	10 day	
SL-566-SA5C-SB-9.0-10.0	6/4/12 02:15	SO	None	1 - 4 oz glass	10 day	
SL-569-SA5C-SB-0.0-0.5	6/4/12 02:50	SO	None	1 - 4 oz glass	10 day	
SL-569-SA5C-SB-4.0-5.0	6/4/12 02:55	SO	None	1 - 4 oz glass	10 day	

Special Instructions: SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	6/4/12									

*Burby* 6-5-12 1000  
*Burby*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 18, 2012

Project: SSFL Phase 3 Sampling

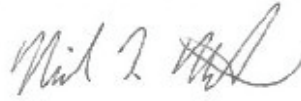
Submittal Date: 06/05/2012  
Group Number: 1313382  
SDG: PH011  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-564-SA5C-SB-0.0-0.5 Soil  
SL-564-SA5C-SB-4.0-5.0 Soil  
SL-564-SA5C-SB-9.0-10.0 Soil  
SL-565-SA5C-SB-0.0-0.5 Soil  
SL-565-SA5C-SB-4.0-5.0 Soil  
SL-565-SA5C-SB-9.0-10.0 Soil  
SL-566-SA5C-SB-4.0-5.0 Soil  
SL-566-SA5C-SB-9.0-10.0 Soil  
SL-569-SA5C-SB-0.0-0.5 Soil  
SL-569-SA5C-SB-4.0-5.0 SoilLancaster Labs (LLI) #6676282  
6676283  
6676284  
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6676288  
6676289  
6676290  
6676291

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
ELECTRONIC COPY TO  
CDM Federal Services Program  
Data Package Group

Attn: Todd Burgesser

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-564-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-564-SA5C-SB

LLI Sample # SW 6676282  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 11:30

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56400 SDG#: PH011-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-564-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-564-SA5C-SB

LLI Sample # SW 6676282  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 11:30

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

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56400 SDG#: PH011-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>						
11031	2378-TCDD	1746-01-6	0.0966 JBQ	0.0173	1.13	1
11031	12378-PeCDD	40321-76-4	0.0569 J	0.0185	5.66	1
11031	123478-HxCDD	39227-28-6	0.0315 JBQ	0.0159	5.66	1
11031	123678-HxCDD	57653-85-7	0.0991 JB	0.0172	5.66	1
11031	123789-HxCDD	19408-74-3	0.127 JBQ	0.0162	5.66	1
11031	1234678-HpCDD	35822-46-9	0.488 JB	0.0218	5.66	1
11031	OCDD	3268-87-9	2.96 JB	0.0155	11.3	1
11031	2378-TCDF	51207-31-9	0.0157 JQ	0.0127	1.13	1
11031	12378-PeCDF	57117-41-6	0.0497 JB	0.0116	5.66	1
11031	23478-PeCDF	57117-31-4	0.111 JBQ	0.0103	5.66	1
11031	123478-HxCDF	70648-26-9	0.0469 JB	0.00874	5.66	1
11031	123678-HxCDF	57117-44-9	0.0349 JB	0.00886	5.66	1
11031	123789-HxCDF	72918-21-9	0.0587 JB	0.00872	5.66	1
11031	234678-HxCDF	60851-34-5	0.0249 JB	0.00838	5.66	1
11031	1234678-HpCDF	67562-39-4	0.0808 JB	0.00955	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0548 JB	0.0102	5.66	1
11031	OCDF	39001-02-0	0.114 JB	0.0144	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	76	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-564-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-564-SA5C-SB

**LLI Sample #** SW 6676282  
**LLI Group #** 1313382  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 11:30

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Submitted: 06/05/2012 10:00

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Reported: 06/18/2012 15:34

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56400 SDG#: PH011-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-564-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-564-SA5C-SB

LLI Sample # SW 6676282  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 11:30

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56400 SDG#: PH011-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/13/2012 03:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-564-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-564-SA5C-SB

LLI Sample # SW 6676283  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 11:35

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Submitted: 06/05/2012 10:00

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56440 SDG#: PH011-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-564-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-564-SA5C-SB

LLI Sample # SW 6676283  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 11:35

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Submitted: 06/05/2012 10:00

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56440 SDG#: PH011-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0169 U	0.0169	1.09	1
11031	12378-PeCDD	40321-76-4	0.0368 J	0.0160	5.45	1
11031	123478-HxCDD	39227-28-6	0.0149 JBQ	0.0132	5.45	1
11031	123678-HxCDD	57653-85-7	0.0309 JB	0.0141	5.45	1
11031	123789-HxCDD	19408-74-3	0.0549 JB	0.0135	5.45	1
11031	1234678-HpCDD	35822-46-9	0.283 JB	0.0165	5.45	1
11031	OCDD	3268-87-9	0.588 JBQ	0.0177	10.9	1
11031	2378-TCDF	51207-31-9	0.0116 U	0.0116	1.09	1
11031	12378-PeCDF	57117-41-6	0.0189 JB	0.00971	5.45	1
11031	23478-PeCDF	57117-31-4	0.0450 JB	0.00896	5.45	1
11031	123478-HxCDF	70648-26-9	0.0382 JB	0.00772	5.45	1
11031	123678-HxCDF	57117-44-9	0.0383 JBQ	0.00766	5.45	1
11031	123789-HxCDF	72918-21-9	0.0448 JBQ	0.00761	5.45	1
11031	234678-HxCDF	60851-34-5	0.0144 JBQ	0.00687	5.45	1
11031	1234678-HpCDF	67562-39-4	0.0655 JBQ	0.00815	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0292 JB	0.00958	5.45	1
11031	OCDF	39001-02-0	0.0874 JB	0.0137	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	72	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-564-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-564-SA5C-SB

**LLI Sample #** SW 6676283  
**LLI Group #** 1313382  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 11:35

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Submitted: 06/05/2012 10:00

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56440 SDG#: PH011-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-564-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-564-SA5C-SB

LLI Sample # SW 6676283  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 11:35

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Submitted: 06/05/2012 10:00

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56440 SDG#: PH011-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/13/2012 04:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-564-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-564-SA5C-SB

LLI Sample # SW 6676284  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 11:37

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Submitted: 06/05/2012 10:00

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Reported: 06/18/2012 15:34

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56490 SDG#: PH011-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	10.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-564-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-564-SA5C-SB

LLI Sample # SW 6676284  
LLI Group # 1313382  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/04/2012 11:37

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Submitted: 06/05/2012 10:00

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56490 SDG#: PH011-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0149 U	0.0149	1.11	1
11031	12378-PeCDD	40321-76-4	0.0212 JQ	0.0144	5.55	1
11031	123478-HxCDD	39227-28-6	0.0290 JB	0.0134	5.55	1
11031	123678-HxCDD	57653-85-7	0.0412 JB	0.0139	5.55	1
11031	123789-HxCDD	19408-74-3	0.0359 JB	0.0131	5.55	1
11031	1234678-HpCDD	35822-46-9	0.313 JB	0.0168	5.55	1
11031	OCDD	3268-87-9	0.866 JB	0.0190	11.1	1
11031	2378-TCDF	51207-31-9	0.0212 J	0.0105	1.11	1
11031	12378-PeCDF	57117-41-6	0.0206 JBQ	0.00933	5.55	1
11031	23478-PeCDF	57117-31-4	0.0712 JB	0.00876	5.55	1
11031	123478-HxCDF	70648-26-9	0.0327 JBQ	0.00781	5.55	1
11031	123678-HxCDF	57117-44-9	0.0254 JBQ	0.00770	5.55	1
11031	123789-HxCDF	72918-21-9	0.00795 U	0.00795	5.55	1
11031	234678-HxCDF	60851-34-5	0.0199 JB	0.00685	5.55	1
11031	1234678-HpCDF	67562-39-4	0.0581 JB	0.00740	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0125 JB	0.00980	5.55	1
11031	OCDF	39001-02-0	0.0764 JB	0.0157	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	58	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-564-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-564-SA5C-SB

LLI Sample # SW 6676284  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 11:37

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

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Reported: 06/18/2012 15:34

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Fairfax VA 22030

56490 SDG#: PH011-03

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-564-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-564-SA5C-SB

LLI Sample # SW 6676284  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 11:37

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

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Reported: 06/18/2012 15:34

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56490 SDG#: PH011-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/13/2012 05:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-565-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-565-SA5C-SB

LLI Sample # SW 6676285  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 13:27

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Submitted: 06/05/2012 10:00

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Reported: 06/18/2012 15:34

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Fairfax VA 22030

56500 SDG#: PH011-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-565-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-565-SA5C-SB

LLI Sample # SW 6676285  
LLI Group # 1313382  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/04/2012 13:27

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56500 SDG#: PH011-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0174	U	0.0174	1.13	1
11031	12378-PeCDD	40321-76-4	0.0612	J	0.0161	5.64	1
11031	123478-HxCDD	39227-28-6	0.0194	U	0.0194	5.64	1
11031	123678-HxCDD	57653-85-7	0.186	JB	0.0198	5.64	1
11031	123789-HxCDD	19408-74-3	0.283	JB	0.0193	5.64	1
11031	1234678-HpCDD	35822-46-9	0.510	JB	0.0206	5.64	1
11031	OCDD	3268-87-9	2.64	JB	0.0221	11.3	1
11031	2378-TCDF	51207-31-9	0.0183	J	0.0114	1.13	1
11031	12378-PeCDF	57117-41-6	0.0559	JBQ	0.0106	5.64	1
11031	23478-PeCDF	57117-31-4	0.0472	JBQ	0.00922	5.64	1
11031	123478-HxCDF	70648-26-9	0.0400	JB	0.0105	5.64	1
11031	123678-HxCDF	57117-44-9	0.0246	JBQ	0.00955	5.64	1
11031	123789-HxCDF	72918-21-9	0.201	JB	0.0101	5.64	1
11031	234678-HxCDF	60851-34-5	0.0131	JB	0.00870	5.64	1
11031	1234678-HpCDF	67562-39-4	0.0869	JB	0.00954	5.64	1
11031	1234789-HpCDF	55673-89-7	0.0360	JB	0.0113	5.64	1
11031	OCDF	39001-02-0	0.160	JB	0.0164	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-565-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-565-SA5C-SB

LLI Sample # SW 6676285  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 13:27

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

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Reported: 06/18/2012 15:34

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56500 SDG#: PH011-04

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-565-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-565-SA5C-SB

LLI Sample # SW 6676285  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 13:27

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

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Fairfax VA 22030

56500 SDG#: PH011-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/13/2012 06:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-565-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-565-SA5C-SB

LLI Sample # SW 6676286  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 13:30

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

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Fairfax VA 22030

56540 SDG#: PH011-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-565-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-565-SA5C-SB

LLI Sample # SW 6676286  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 13:30

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

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56540 SDG#: PH011-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0339 JB	0.0189	1.05	1
11031	12378-PeCDD	40321-76-4	0.0190 JQ	0.0173	5.24	1
11031	123478-HxCDD	39227-28-6	0.0198 JBQ	0.0126	5.24	1
11031	123678-HxCDD	57653-85-7	0.0311 JBQ	0.0138	5.24	1
11031	123789-HxCDD	19408-74-3	0.0481 JB	0.0129	5.24	1
11031	1234678-HpCDD	35822-46-9	0.540 JB	0.0197	5.24	1
11031	OCDD	3268-87-9	4.10 JB	0.0159	10.5	1
11031	2378-TCDF	51207-31-9	0.0166 JQ	0.0117	1.05	1
11031	12378-PeCDF	57117-41-6	0.0388 JBQ	0.0106	5.24	1
11031	23478-PeCDF	57117-31-4	0.0411 JB	0.00895	5.24	1
11031	123478-HxCDF	70648-26-9	0.0301 JBQ	0.00795	5.24	1
11031	123678-HxCDF	57117-44-9	0.0340 JBQ	0.00770	5.24	1
11031	123789-HxCDF	72918-21-9	0.0331 JB	0.00759	5.24	1
11031	234678-HxCDF	60851-34-5	0.0263 JBQ	0.00687	5.24	1
11031	1234678-HpCDF	67562-39-4	0.0741 JB	0.00859	5.24	1
11031	1234789-HpCDF	55673-89-7	0.0153 JB	0.00977	5.24	1
11031	OCDF	39001-02-0	0.145 JB	0.0127	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	78	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	70	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-565-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-565-SA5C-SB

LLI Sample # SW 6676286  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 13:30

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

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Fairfax VA 22030

56540 SDG#: PH011-05

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-565-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-565-SA5C-SB

LLI Sample # SW 6676286  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 13:30

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

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Reported: 06/18/2012 15:34

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Fairfax VA 22030

56540 SDG#: PH011-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/13/2012 07:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-565-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-565-SA5C-SB

LLI Sample # SW 6676287  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 13:35

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

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Fairfax VA 22030

56590 SDG#: PH011-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-565-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-565-SA5C-SB

LLI Sample # SW 6676287  
LLI Group # 1313382  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/04/2012 13:35

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

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Fairfax VA 22030

56590 SDG#: PH011-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0427 JB	0.0195	1.08	1
11031	12378-PeCDD	40321-76-4	0.0195 JQ	0.0164	5.40	1
11031	123478-HxCDD	39227-28-6	0.0197 JBQ	0.0140	5.40	1
11031	123678-HxCDD	57653-85-7	0.0495 JBQ	0.0150	5.40	1
11031	123789-HxCDD	19408-74-3	0.0391 JBQ	0.0140	5.40	1
11031	1234678-HpCDD	35822-46-9	0.577 JB	0.0190	5.40	1
11031	OCDD	3268-87-9	4.26 JB	0.0164	10.8	1
11031	2378-TCDF	51207-31-9	0.0226 JQ	0.0129	1.08	1
11031	12378-PeCDF	57117-41-6	0.0299 JBQ	0.0104	5.40	1
11031	23478-PeCDF	57117-31-4	0.0623 JB	0.00948	5.40	1
11031	123478-HxCDF	70648-26-9	0.0226 JB	0.00910	5.40	1
11031	123678-HxCDF	57117-44-9	0.0321 JB	0.00870	5.40	1
11031	123789-HxCDF	72918-21-9	0.0140 JBQ	0.00906	5.40	1
11031	234678-HxCDF	60851-34-5	0.0207 JBQ	0.00771	5.40	1
11031	1234678-HpCDF	67562-39-4	0.0787 JB	0.00939	5.40	1
11031	1234789-HpCDF	55673-89-7	0.0230 JB	0.0123	5.40	1
11031	OCDF	39001-02-0	0.150 JB	0.0141	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	83	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-565-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-565-SA5C-SB

**LLI Sample #** SW 6676287  
**LLI Group #** 1313382  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 13:35

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56590 SDG#: PH011-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-565-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-565-SA5C-SB

LLI Sample # SW 6676287  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 13:35

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56590 SDG#: PH011-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/13/2012 07:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-566-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-566-SA5C-SB

LLI Sample # SW 6676288  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:12

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56640 SDG#: PH011-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-566-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-566-SA5C-SB

LLI Sample # SW 6676288  
LLI Group # 1313382  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/04/2012 14:12

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

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Fairfax VA 22030

56640 SDG#: PH011-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0171 U	0.0171	1.12	1
11031	12378-PeCDD	40321-76-4	0.0253 JQ	0.0172	5.58	1
11031	123478-HxCDD	39227-28-6	0.0140 U	0.0140	5.58	1
11031	123678-HxCDD	57653-85-7	0.0422 JBQ	0.0146	5.58	1
11031	123789-HxCDD	19408-74-3	0.0481 JB	0.0138	5.58	1
11031	1234678-HpCDD	35822-46-9	0.731 JB	0.0188	5.58	1
11031	OCDD	3268-87-9	7.72 JB	0.0235	11.2	1
11031	2378-TCDF	51207-31-9	0.0237 J	0.0110	1.12	1
11031	12378-PeCDF	57117-41-6	0.0259 JB	0.0108	5.58	1
11031	23478-PeCDF	57117-31-4	0.0527 JB	0.0102	5.58	1
11031	123478-HxCDF	70648-26-9	0.0270 JB	0.00836	5.58	1
11031	123678-HxCDF	57117-44-9	0.0244 JB	0.00820	5.58	1
11031	123789-HxCDF	72918-21-9	0.0259 JBQ	0.00878	5.58	1
11031	234678-HxCDF	60851-34-5	0.0191 JB	0.00743	5.58	1
11031	1234678-HpCDF	67562-39-4	0.0951 JB	0.0101	5.58	1
11031	1234789-HpCDF	55673-89-7	0.0282 JB	0.0120	5.58	1
11031	OCDF	39001-02-0	0.196 JB	0.0173	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	54	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-566-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-566-SA5C-SB

LLI Sample # SW 6676288  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:12

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56640 SDG#: PH011-07

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-566-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-566-SA5C-SB

LLI Sample # SW 6676288  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:12

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56640 SDG#: PH011-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/13/2012 08:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-566-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-566-SA5C-SB

LLI Sample # SW 6676289  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:15

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56690 SDG#: PH011-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-566-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-566-SA5C-SB

LLI Sample # SW 6676289  
LLI Group # 1313382  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/04/2012 14:15

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56690 SDG#: PH011-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.102 JB	0.0152	1.12	1
11031	12378-PeCDD	40321-76-4	0.219 J	0.0197	5.61	1
11031	123478-HxCDD	39227-28-6	0.0866 JB	0.0233	5.61	1
11031	123678-HxCDD	57653-85-7	0.226 JB	0.0250	5.61	1
11031	123789-HxCDD	19408-74-3	0.205 JB	0.0233	5.61	1
11031	1234678-HpCDD	35822-46-9	5.09 JB	0.0231	5.61	1
11031	OCDD	3268-87-9	49.7 B	0.0237	11.2	1
11031	2378-TCDF	51207-31-9	0.0976 JQ	0.0142	1.12	1
11031	12378-PeCDF	57117-41-6	0.255 JB	0.0124	5.61	1
11031	23478-PeCDF	57117-31-4	0.183 JB	0.0107	5.61	1
11031	123478-HxCDF	70648-26-9	0.154 JB	0.0166	5.61	1
11031	123678-HxCDF	57117-44-9	0.123 JB	0.0166	5.61	1
11031	123789-HxCDF	72918-21-9	0.0966 JB	0.0166	5.61	1
11031	234678-HxCDF	60851-34-5	0.0963 JB	0.0150	5.61	1
11031	1234678-HpCDF	67562-39-4	0.696 JB	0.0218	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0903 JB	0.0231	5.61	1
11031	OCDF	39001-02-0	1.44 JB	0.0171	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	99	25 - 164
13C12-12378-PeCDD	98	25 - 181
13C12-123478-HxCDD	97	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	91	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	90	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	95	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	74	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-566-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-566-SA5C-SB

**LLI Sample #** SW 6676289  
**LLI Group #** 1313382  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:15

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56690 SDG#: PH011-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-566-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-566-SA5C-SB

LLI Sample # SW 6676289  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:15

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56690 SDG#: PH011-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/13/2012 09:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-569-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-569-SA5C-SB

LLI Sample # SW 6676290  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:50

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56900 SDG#: PH011-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-569-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-569-SA5C-SB

LLI Sample # SW 6676290  
LLI Group # 1313382  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/04/2012 14:50

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56900 SDG#: PH011-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.147 JB	0.0177	1.10	1
11031	12378-PeCDD	40321-76-4	0.265 J	0.0202	5.50	1
11031	123478-HxCDD	39227-28-6	0.148 JB	0.0254	5.50	1
11031	123678-HxCDD	57653-85-7	0.528 JB	0.0267	5.50	1
11031	123789-HxCDD	19408-74-3	0.465 JB	0.0252	5.50	1
11031	1234678-HpCDD	35822-46-9	7.05 B	0.0228	5.50	1
11031	OCDD	3268-87-9	43.4 B	0.0324	11.0	1
11031	2378-TCDF	51207-31-9	0.112 J	0.0152	1.10	1
11031	12378-PeCDF	57117-41-6	0.330 JB	0.0130	5.50	1
11031	23478-PeCDF	57117-31-4	0.285 JB	0.0122	5.50	1
11031	123478-HxCDF	70648-26-9	0.187 JB	0.0251	5.50	1
11031	123678-HxCDF	57117-44-9	0.195 JB	0.0246	5.50	1
11031	123789-HxCDF	72918-21-9	0.282 JB	0.0191	5.50	1
11031	234678-HxCDF	60851-34-5	0.138 JB	0.0154	5.50	1
11031	1234678-HpCDF	67562-39-4	0.708 JB	0.0286	5.50	1
11031	1234789-HpCDF	55673-89-7	0.0866 JB	0.0293	5.50	1
11031	OCDF	39001-02-0	1.01 JB	0.0332	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	57	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	61	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	52	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-569-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-569-SA5C-SB

LLI Sample # SW 6676290  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:50

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56900 SDG#: PH011-09

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-569-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-569-SA5C-SB

LLI Sample # SW 6676290  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:50

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56900 SDG#: PH011-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/13/2012 10:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-569-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-569-SA5C-SB

LLI Sample # SW 6676291  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:55

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56940 SDG#: PH011-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-569-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-569-SA5C-SB

LLI Sample # SW 6676291  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:55

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56940 SDG#: PH011-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0170 JB	0.0146	1.12	1
11031	12378-PeCDD	40321-76-4	0.0152 U	0.0152	5.58	1
11031	123478-HxCDD	39227-28-6	0.0171 JBQ	0.0141	5.58	1
11031	123678-HxCDD	57653-85-7	0.0471 JB	0.0157	5.58	1
11031	123789-HxCDD	19408-74-3	0.0748 JBQ	0.0144	5.58	1
11031	1234678-HpCDD	35822-46-9	0.910 JB	0.0234	5.58	1
11031	OCDD	3268-87-9	5.08 JB	0.0354	11.2	1
11031	2378-TCDF	51207-31-9	0.0101 U	0.0101	1.12	1
11031	12378-PeCDF	57117-41-6	0.0198 JB	0.0102	5.58	1
11031	23478-PeCDF	57117-31-4	0.0576 JBQ	0.00928	5.58	1
11031	123478-HxCDF	70648-26-9	0.0194 JB	0.00924	5.58	1
11031	123678-HxCDF	57117-44-9	0.0312 JBQ	0.00865	5.58	1
11031	123789-HxCDF	72918-21-9	0.0405 JB	0.00832	5.58	1
11031	234678-HxCDF	60851-34-5	0.0269 JB	0.00631	5.58	1
11031	1234678-HpCDF	67562-39-4	0.0595 JBQ	0.0182	5.58	1
11031	1234789-HpCDF	55673-89-7	0.0414 JB	0.0245	5.58	1
11031	OCDF	39001-02-0	0.0904 JBQ	0.0410	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	56	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	65	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	65	28 - 143
13C12-1234789-HpCDF	50	26 - 138
13C12-OCDF	35	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-569-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-569-SA5C-SB

LLI Sample # SW 6676291  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:55

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56940 SDG#: PH011-10

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-569-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-569-SA5C-SB

LLI Sample # SW 6676291  
LLI Group # 1313382  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/04/2012 14:55

CDM Federal Programs Corp.

Submitted: 06/05/2012 10:00

3201 Jermantown Road

Reported: 06/18/2012 15:34

Suite 400

Fairfax VA 22030

56940 SDG#: PH011-10

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/13/2012 11:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/18/12 at 03:34 PM

Group Number: 1313382

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12164162401A	Sample number(s): 6676282-6676291								
Moisture CDM					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12161001	Sample number(s): 6676282-6676291								
2378-TCDD	0.0228 J	0.0161	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0135 U	0.0135	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0166 J	0.0113	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0305 J	0.0125	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0372 J	0.0112	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.264 J	0.0138	5.00	ng/kg	96		70-140		
OCDD	0.394 J	0.0144	10.0	ng/kg	91		78-144		
2378-TCDF	0.0115 U	0.0115	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0184 J	0.00921	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0560 J	0.00855	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0203 J	0.00656	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0156 J	0.00635	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0198 J	0.00597	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0178 J	0.00624	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0526 J	0.00541	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0191 J	0.00685	5.00	ng/kg	95		78-138		
OCDF	0.0626 J	0.0116	10.0	ng/kg	93		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12164162401A	Sample number(s): 6676282-6676291					BKG: 6676282			
Moisture CDM						12.6	12.7	1	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/18/12 at 03:34 PM

Group Number: 1313382

### Surrogate Quality Control

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12161001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6676282	82	85	78	76	78	85
6676283	83	84	77	76	83	86
6676284	86	85	81	79	86	82
6676285	73	82	72	73	79	72
6676286	67	75	71	73	79	75
6676287	72	80	74	78	82	77
6676288	80	80	76	76	82	80
6676289	99	96	90	88	95	90
6676290	88	90	57	58	88	79
6676291	85	83	64	65	87	70
Blank	81	83	85	88	88	93
OPR	72	77	73	75	76	76
<hr/>						
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
<hr/>						
6676282	80	79	76	84	83	82
6676283	79	76	72	85	85	84
6676284	83	70	58	88	88	88
6676285	76	67	61	84	81	81
6676286	78	73	70	78	82	78
6676287	83	68	64	81	83	85
6676288	80	70	54	83	84	83
6676289	86	86	74	98	97	93
6676290	61	65	52	90	85	86
6676291	65	50	35	84	86	83
Blank	101	87	85	89	97	94
OPR	86	67	64	83	83	81
<hr/>						
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
<hr/>						
6676282	82	81	82	77	84	
6676283	82	83	79	76	83	
6676284	88	84	77	81	86	
6676285	79	78	74	70	81	
6676286	80	79	79	64	73	
6676287	83	83	81	68	79	
6676288	84	81	66	75	82	
6676289	95	90	79	91	94	
6676290	86	80	67	86	89	
6676291	84	73	56	81	82	
Blank	97	101	100	71	84	
OPR	86	82	81	66	78	
<hr/>						
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

# SSFL Phase 3 Chain of Custody

13013 1313382 6676282-91

CDM Smith  
 DateShipped: 6/4/2012  
 CarrierName: FedEx  
 AirbillNo: 7984 7010 1792

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120604-02  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Other Analysis/Notes
SL-564-SA5C-SB-0.0-0.5	6/4/12 11:30	SO	None	1 - 4 oz glass	10 day	
SL-564-SA5C-SB-4.0-5.0	6/4/12 11:35	SO	None	1 - 4 oz glass	10 day	
SL-564-SA5C-SB-9.0-10.0	6/4/12 11:37	SO	None	1 - 4 oz glass	10 day	
SL-573-SA5C-SB-0.0-0.5	6/4/12 10:30	SO	None	1 - 4 oz glass	10 day	
SL-573-SA5C-SB-4.0-5.0	6/4/12 10:40	SO	None	1 - 8 oz glass	10 day	
SL-573-SA5C-SB-9.0-10.0	6/4/12 10:45	SO	None	1 - 4 oz glass	10 day	
SL-565-SA5C-SB-0.0-0.5	6/4/12 01:27	SO	None	1 - 4 oz glass	10 day	
SL-565-SA5C-SB-4.0-5.0	6/4/12 01:30	SO	None	1 - 4 oz glass	10 day	
SL-565-SA5C-SB-9.0-10.0	6/4/12 01:35	SO	None	1 - 4 oz glass	10 day	
SL-566-SA5C-SB-4.0-5.0	6/4/12 02:12	SO	None	1 - 4 oz glass	10 day	
SL-566-SA5C-SB-9.0-10.0	6/4/12 02:15	SO	None	1 - 4 oz glass	10 day	
SL-569-SA5C-SB-0.0-0.5	6/4/12 02:50	SO	None	1 - 4 oz glass	10 day	
SL-569-SA5C-SB-4.0-5.0	6/4/12 02:55	SO	None	1 - 4 oz glass	10 day	

Special Instructions: SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	6/4/12									
									<i>[Signature]</i>	6-5-12	1000

*[Signature]*  
*[Signature]*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 27, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 06/06/2012  
Group Number: 1313745  
SDG: PT009  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

Client Sample Description

FB-060512 Water

Lancaster Labs (LLI) #

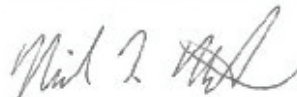
6677891

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
1 COPY TO CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259



Lancaster  
Laboratories

# ***Analysis Report***

---

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

Sample Description: **FB-060512 Water**  
**SSFL Phase 3 Soil Sampling**  
**FB**

LLI Sample # **WW 6677891**  
 LLI Group # **1313745**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 06/05/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/27/2012 14:42

Suite 400

Fairfax VA 22030

T0901 SDG#: PT009-01FB\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
04144	20b Formaldehyde 8315A	50-00-0	12 J	10	50	1
<b>GC Petroleum Hydrocarbons</b>						
	<b>SW-846 8015B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10319	m-Terphenyl	92-06-8	0.084 U	0.084	0.26	1
10319	o-Terphenyl	84-15-1	0.084 U	0.084	0.26	1
10319	p-Terphenyl	92-94-4	0.084 U	0.084	0.26	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	20b Formaldehyde 8315A	SW-846 8315A	1	121580032A	06/07/2012 19:49	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	121580032A	06/07/2012 09:40	Denise L Trimby	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	121640005A	06/27/2012 11:28	Tracy A Cole	1
10304	Terphenyls water prep	SW-846 3510C	1	121640005A	06/12/2012 16:25	JoElla L Rice	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/27/12 at 02:42 PM

Group Number: 1313745

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121580032A 20b Formaldehyde 8315A	Sample number(s): 6677891 10 U 10. 50			ug/l	94	94	69-130	0	30
Batch number: 121640005A m-Terphenyl	0.080 U	0.080	0.25	mg/l	110*	110*	61-108	0	20
o-Terphenyl	0.080 U	0.080	0.25	mg/l	98	96	75-125	2	20
p-Terphenyl	0.080 U	0.080	0.25	mg/l	112*	112*	63-110	0	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20b Formaldehyde 8315A  
Batch number: 121580032A  
Butyraldehyde

---

6677891	102
Blank	96
LCS	98
LCSD	98

---

Limits: 45-145

Analysis Name: 22b Terphenyls by 8015B  
Batch number: 121640005A  
n-Triacontane-d62

---

6677891	119*
Blank	104*
LCS	130*
LCSD	137*

---

Limits: 46-100

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

acct #13013 Cp #1313745

Sample # 6677891  
**SSFL Phase 3 Chain of Custody**

CDM Smith

Date Shipped: 6/5/2012  
 Carrier Name: FedEx  
 Airbill No: 7984 7533 5592

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120605-03  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Oranotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	PH 9040 (Water)	PH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBS/PCIS 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes			
FB-060512	6/5/12 15:00	WQ	None	3 - 1 L Amber	10 day								X																										
SL-561-SASC-SB-0.0-0.5	6/5/12 10:20	SO	None	1 - 4 oz glass	10 day																																		
SL-561-SASC-SB-5.5-6.5	6/5/12 10:25	SO	None	1 - 4 oz glass	10 day																																		
SL-615-SASC-SB-4.0-5.0	6/5/12 11:50	SO	None	1 - 4 oz glass	10 day																																		
SL-615-SASC-SB-9.0-10.0	6/5/12 11:55	SO	None	1 - 4 oz glass	10 day																																		
SL-539-SASC-SB-0.0-0.5	6/5/12 01:55	SO	None	1 - 4 oz glass	10 day																																		
SL-539-SASC-SB-6.0-7.0	6/5/12 02:05	SO	None	1 - 4 oz glass	10 day																																		

Special Instructions:

SAMPLES TRANSFERRED FROM  
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time

Benny 6-6-12 905  
 Benny

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 19, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 06/06/2012  
Group Number: 1313747  
SDG: PH011  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

Client Sample Description

FB-060512 Water  
SL-561-SA5C-SB-0.0-0.5 Soil  
SL-561-SA5C-SB-5.5-6.5 Soil  
SL-615-SA5C-SB-4.0-5.0 Soil  
SL-615-SA5C-SB-9.0-10.0 Soil  
SL-539-SA5C-SB-0.0-0.5 Soil  
SL-539-SA5C-SB-6.0-7.0 Soil

Lancaster Labs (LLI) #

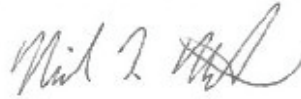
6677895  
6677896  
6677897  
6677898  
6677899  
6677900  
6677901

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
ELECTRONIC COPY TO  
CDM Federal Services Program  
Data Package Group

Attn: Todd Burgesser

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

Sample Description: **FB-060512 Water**  
**SSFL Phase 3 Soil Sampling**  
**FB**

LLI Sample # **WW 6677895**  
 LLI Group # **1313747**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 06/05/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1111 SDG#: PH011-11FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.357 JBQ	0.203	1.92	1
10915	12378-PeCDD	40321-76-4	0.185 U	0.185	9.60	1
10915	123478-HxCDD	39227-28-6	0.140 U	0.140	9.60	1
10915	123678-HxCDD	57653-85-7	0.218 JB	0.152	9.60	1
10915	123789-HxCDD	19408-74-3	0.267 JBQ	0.146	9.60	1
10915	1234678-HpCDD	35822-46-9	3.14 JB	0.195	9.60	1
10915	OCDD	3268-87-9	6.82 JB	0.248	19.2	1
10915	2378-TCDF	51207-31-9	0.208 J	0.127	1.92	1
10915	12378-PeCDF	57117-41-6	0.142 JQ	0.107	9.60	1
10915	23478-PeCDF	57117-31-4	0.408 JB	0.0972	9.60	1
10915	123478-HxCDF	70648-26-9	0.295 JBQ	0.0733	9.60	1
10915	123678-HxCDF	57117-44-9	0.189 JB	0.0745	9.60	1
10915	123789-HxCDF	72918-21-9	0.109 JB	0.0661	9.60	1
10915	234678-HxCDF	60851-34-5	0.115 JB	0.0675	9.60	1
10915	1234678-HpCDF	67562-39-4	0.431 JB	0.0716	9.60	1
10915	1234789-HpCDF	55673-89-7	0.170 JB	0.0845	9.60	1
10915	OCDF	39001-02-0	0.796 JB	0.171	19.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	73	25 - 181
13C12-123478-HxCDD	62	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	62	28 - 130
13C12-1234678-HpCDD	57	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	72	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	58	26 - 123
13C12-234678-HxCDF	61	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	56	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	47	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** FB-060512 Water  
SSFL Phase 3 Soil Sampling  
FB

LLI Sample # WW 6677895  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

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Fairfax VA 22030

H1111 SDG#: PH011-11FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans day	10-15 EPA 1613B	1	12164002	06/15/2012 06:00	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12164002	06/13/2012 08:40	Ginelle L Haines	1

**Sample Description:** SL-561-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-561-SA5C-SB

LLI Sample # SW 6677896  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 10:20

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

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Reported: 06/19/2012 07:41

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H1112 SDG#: PH011-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-561-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-561-SA5C-SB

LLI Sample # SW 6677896  
LLI Group # 1313747  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/05/2012 10:20

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

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Reported: 06/19/2012 07:41

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H1112 SDG#: PH011-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0369 JBQ	0.0183	1.12	1
11031	12378-PeCDD	40321-76-4	0.0394 J	0.0160	5.60	1
11031	123478-HxCDD	39227-28-6	0.0189 U	0.0189	5.60	1
11031	123678-HxCDD	57653-85-7	0.191 JB	0.0202	5.60	1
11031	123789-HxCDD	19408-74-3	0.251 JB	0.0190	5.60	1
11031	1234678-HpCDD	35822-46-9	0.501 JB	0.0223	5.60	1
11031	OCDD	3268-87-9	3.30 JB	0.0219	11.2	1
11031	2378-TCDF	51207-31-9	0.0282 J	0.0124	1.12	1
11031	12378-PeCDF	57117-41-6	0.0396 JB	0.0112	5.60	1
11031	23478-PeCDF	57117-31-4	0.0485 JBQ	0.0102	5.60	1
11031	123478-HxCDF	70648-26-9	0.0418 JB	0.00997	5.60	1
11031	123678-HxCDF	57117-44-9	0.0467 JBQ	0.00987	5.60	1
11031	123789-HxCDF	72918-21-9	0.238 JB	0.0121	5.60	1
11031	234678-HxCDF	60851-34-5	0.0183 JB	0.00937	5.60	1
11031	1234678-HpCDF	67562-39-4	0.0771 JB	0.00836	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0295 JB	0.0125	5.60	1
11031	OCDF	39001-02-0	0.120 JB	0.0257	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	72	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	40	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-561-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-561-SA5C-SB

LLI Sample # SW 6677896  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 10:20

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

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H1112 SDG#: PH011-12

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-561-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-561-SA5C-SB

LLI Sample # SW 6677896  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 10:20

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

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H1112 SDG#: PH011-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/14/2012 16:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-561-SA5C-SB-5.5-6.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-561-SA5C-SB

LLI Sample # SW 6677897  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 10:25

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

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Reported: 06/19/2012 07:41

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H1113 SDG#: PH011-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-561-SA5C-SB-5.5-6.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-561-SA5C-SB

LLI Sample # SW 6677897  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 10:25

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

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Reported: 06/19/2012 07:41

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H1113 SDG#: PH011-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0191 U	0.0191	1.04	1
11031	12378-PeCDD	40321-76-4	0.0259 J	0.0171	5.19	1
11031	123478-HxCDD	39227-28-6	0.0148 JBQ	0.0141	5.19	1
11031	123678-HxCDD	57653-85-7	0.0409 JB	0.0150	5.19	1
11031	123789-HxCDD	19408-74-3	0.0408 JB	0.0143	5.19	1
11031	1234678-HpCDD	35822-46-9	0.309 JB	0.0188	5.19	1
11031	OCDD	3268-87-9	0.919 JB	0.0226	10.4	1
11031	2378-TCDF	51207-31-9	0.0128 J	0.0115	1.04	1
11031	12378-PeCDF	57117-41-6	0.0349 JBQ	0.0109	5.19	1
11031	23478-PeCDF	57117-31-4	0.0404 JB	0.00997	5.19	1
11031	123478-HxCDF	70648-26-9	0.0370 JB	0.00780	5.19	1
11031	123678-HxCDF	57117-44-9	0.0153 JBQ	0.00764	5.19	1
11031	123789-HxCDF	72918-21-9	0.0241 JB	0.00821	5.19	1
11031	234678-HxCDF	60851-34-5	0.0268 JBQ	0.00662	5.19	1
11031	1234678-HpCDF	67562-39-4	0.0388 JB	0.00678	5.19	1
11031	1234789-HpCDF	55673-89-7	0.0171 JBQ	0.00952	5.19	1
11031	OCDF	39001-02-0	0.0760 JB	0.0262	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	46	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-561-SA5C-SB-5.5-6.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-561-SA5C-SB

**LLI Sample #** SW 6677897  
**LLI Group #** 1313747  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 10:25

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1113 SDG#: PH011-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-561-SA5C-SB-5.5-6.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-561-SA5C-SB

LLI Sample # SW 6677897  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 10:25

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

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Reported: 06/19/2012 07:41

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Fairfax VA 22030

H1113 SDG#: PH011-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/14/2012 17:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-615-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-615-SA5C-SB

LLI Sample # SW 6677898  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 11:50

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1114 SDG#: PH011-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-615-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-615-SA5C-SB

LLI Sample # SW 6677898  
LLI Group # 1313747  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/05/2012 11:50

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

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H1114 SDG#: PH011-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0187 U	0.0187	1.12	1
11031	12378-PeCDD	40321-76-4	0.0285 J	0.0171	5.60	1
11031	123478-HxCDD	39227-28-6	0.0326 JB	0.0145	5.60	1
11031	123678-HxCDD	57653-85-7	0.0767 JB	0.0156	5.60	1
11031	123789-HxCDD	19408-74-3	0.0495 JBQ	0.0151	5.60	1
11031	1234678-HpCDD	35822-46-9	0.861 JB	0.0226	5.60	1
11031	OCDD	3268-87-9	9.67 JB	0.0240	11.2	1
11031	2378-TCDF	51207-31-9	0.0226 J	0.0134	1.12	1
11031	12378-PeCDF	57117-41-6	0.0420 JB	0.0109	5.60	1
11031	23478-PeCDF	57117-31-4	0.0499 JB	0.0101	5.60	1
11031	123478-HxCDF	70648-26-9	0.0418 JB	0.00989	5.60	1
11031	123678-HxCDF	57117-44-9	0.0266 JBQ	0.00904	5.60	1
11031	123789-HxCDF	72918-21-9	0.0274 JBQ	0.0101	5.60	1
11031	234678-HxCDF	60851-34-5	0.0250 JBQ	0.00870	5.60	1
11031	1234678-HpCDF	67562-39-4	0.143 JB	0.00933	5.60	1
11031	1234789-HpCDF	55673-89-7	0.0208 JBQ	0.0140	5.60	1
11031	OCDF	39001-02-0	0.322 JB	0.0222	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	48	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-615-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-615-SA5C-SB

LLI Sample # SW 6677898  
 LLI Group # 1313747  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 11:50

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1114 SDG#: PH011-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-615-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-615-SA5C-SB

LLI Sample # SW 6677898  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 11:50

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1114 SDG#: PH011-14

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/14/2012 18:28	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-615-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-615-SA5C-SB

LLI Sample # SW 6677899  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 11:55

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1115 SDG#: PH011-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-615-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-615-SA5C-SB

LLI Sample # SW 6677899  
LLI Group # 1313747  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/05/2012 11:55

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1115 SDG#: PH011-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0262 JB	0.0176	1.11	1
11031	12378-PeCDD	40321-76-4	0.0167 U	0.0167	5.56	1
11031	123478-HxCDD	39227-28-6	0.0381 JBQ	0.0155	5.56	1
11031	123678-HxCDD	57653-85-7	0.0916 JB	0.0171	5.56	1
11031	123789-HxCDD	19408-74-3	0.0761 JBQ	0.0154	5.56	1
11031	1234678-HpCDD	35822-46-9	1.41 JB	0.0196	5.56	1
11031	OCDD	3268-87-9	16.2 B	0.0227	11.1	1
11031	2378-TCDF	51207-31-9	0.0276 JQ	0.0141	1.11	1
11031	12378-PeCDF	57117-41-6	0.0333 JB	0.0118	5.56	1
11031	23478-PeCDF	57117-31-4	0.0538 JB	0.0108	5.56	1
11031	123478-HxCDF	70648-26-9	0.0499 JB	0.0112	5.56	1
11031	123678-HxCDF	57117-44-9	0.0248 JB	0.0115	5.56	1
11031	123789-HxCDF	72918-21-9	0.0214 JB	0.0114	5.56	1
11031	234678-HxCDF	60851-34-5	0.0325 JB	0.0101	5.56	1
11031	1234678-HpCDF	67562-39-4	0.239 JB	0.0116	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0295 JB	0.0144	5.56	1
11031	OCDF	39001-02-0	0.343 JBQ	0.0168	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	61	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-615-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-615-SA5C-SB

**LLI Sample #** SW 6677899  
**LLI Group #** 1313747  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 11:55

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1115 SDG#: PH011-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-615-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-615-SA5C-SB

LLI Sample # SW 6677899  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 11:55

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1115 SDG#: PH011-15

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/14/2012 19:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-539-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-539-SA5C-SB

LLI Sample # SW 6677900  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 13:55

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1116 SDG#: PH011-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-539-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-539-SA5C-SB

LLI Sample # SW 6677900  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 13:55

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1116 SDG#: PH011-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0254 JB	0.0211	1.09	1
11031	12378-PeCDD	40321-76-4	0.0227 J	0.0154	5.45	1
11031	123478-HxCDD	39227-28-6	0.0209 JBQ	0.0193	5.45	1
11031	123678-HxCDD	57653-85-7	0.0832 JB	0.0198	5.45	1
11031	123789-HxCDD	19408-74-3	0.0913 JB	0.0192	5.45	1
11031	1234678-HpCDD	35822-46-9	0.789 JB	0.0270	5.45	1
11031	OCDD	3268-87-9	4.72 JB	0.0219	10.9	1
11031	2378-TCDF	51207-31-9	0.0279 JQ	0.0140	1.09	1
11031	12378-PeCDF	57117-41-6	0.0524 JBQ	0.0122	5.45	1
11031	23478-PeCDF	57117-31-4	0.0402 JB	0.0110	5.45	1
11031	123478-HxCDF	70648-26-9	0.0452 JB	0.0104	5.45	1
11031	123678-HxCDF	57117-44-9	0.0248 JB	0.00998	5.45	1
11031	123789-HxCDF	72918-21-9	0.0258 JB	0.0103	5.45	1
11031	234678-HxCDF	60851-34-5	0.0342 JB	0.00913	5.45	1
11031	1234678-HpCDF	67562-39-4	0.119 JB	0.00958	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0212 JB	0.0122	5.45	1
11031	OCDF	39001-02-0	0.206 JB	0.0185	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	55	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-539-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-539-SA5C-SB

LLI Sample # SW 6677900  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 13:55

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1116 SDG#: PH011-16

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-539-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-539-SA5C-SB

LLI Sample # SW 6677900  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 13:55

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1116 SDG#: PH011-16

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/14/2012 20:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-539-SA5C-SB-6.0-7.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-539-SA5C-SB

LLI Sample # SW 6677901  
 LLI Group # 1313747  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1117 SDG#: PH011-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-539-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-539-SA5C-SB

LLI Sample # SW 6677901  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

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Fairfax VA 22030

H1117 SDG#: PH011-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0268 JBQ	0.0191	1.13	1
11031	12378-PeCDD	40321-76-4	0.0593 J	0.0174	5.66	1
11031	123478-HxCDD	39227-28-6	0.0396 JB	0.0161	5.66	1
11031	123678-HxCDD	57653-85-7	0.0598 JB	0.0168	5.66	1
11031	123789-HxCDD	19408-74-3	0.0835 JB	0.0159	5.66	1
11031	1234678-HpCDD	35822-46-9	0.312 JB	0.0183	5.66	1
11031	OCDD	3268-87-9	0.604 JB	0.0213	11.3	1
11031	2378-TCDF	51207-31-9	0.0149 J	0.0122	1.13	1
11031	12378-PeCDF	57117-41-6	0.0746 JB	0.0111	5.66	1
11031	23478-PeCDF	57117-31-4	0.0849 JB	0.0103	5.66	1
11031	123478-HxCDF	70648-26-9	0.0618 JB	0.00821	5.66	1
11031	123678-HxCDF	57117-44-9	0.0475 JB	0.00773	5.66	1
11031	123789-HxCDF	72918-21-9	0.0482 JB	0.00814	5.66	1
11031	234678-HxCDF	60851-34-5	0.0433 JBQ	0.00728	5.66	1
11031	1234678-HpCDF	67562-39-4	0.0537 JB	0.00679	5.66	1
11031	1234789-HpCDF	55673-89-7	0.0230 JBQ	0.00933	5.66	1
11031	OCDF	39001-02-0	0.0788 JB	0.0159	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	56	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-539-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-539-SA5C-SB

LLI Sample # SW 6677901  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1117 SDG#: PH011-17

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-539-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-539-SA5C-SB

LLI Sample # SW 6677901  
LLI Group # 1313747  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/05/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/06/2012 09:05

3201 Jermantown Road

Reported: 06/19/2012 07:41

Suite 400

Fairfax VA 22030

H1117 SDG#: PH011-17

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/14/2012 21:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401A	06/12/2012 11:44	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/19/12 at 07:41 AM

Group Number: 1313747

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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Batch number: 12164162401A  
Moisture CDM

Sample number(s): 6677896-6677901

100 80-120

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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Batch number: 12161001

Sample number(s): 6677896-6677901

2378-TCDD	0.0228 J	0.0161	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0135 U	0.0135	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0166 J	0.0113	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0305 J	0.0125	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0372 J	0.0112	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.264 J	0.0138	5.00	ng/kg	96		70-140		
OCDD	0.394 J	0.0144	10.0	ng/kg	91		78-144		
2378-TCDF	0.0115 U	0.0115	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0184 J	0.00921	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0560 J	0.00855	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0203 J	0.00656	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0156 J	0.00635	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0198 J	0.00597	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0178 J	0.00624	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0526 J	0.00541	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0191 J	0.00685	5.00	ng/kg	95		78-138		
OCDF	0.0626 J	0.0116	10.0	ng/kg	93		63-170		

Batch number: 12164002

Sample number(s): 6677895

2378-TCDD	0.286 J	0.193	2.00	pg/l	97		67-158		
12378-PeCDD	0.366 J	0.148	10.0	pg/l	96		70-142		
123478-HxCDD	0.179 J	0.117	10.0	pg/l	90		70-164		
123678-HxCDD	0.241 J	0.123	10.0	pg/l	88		76-134		
123789-HxCDD	0.219 J	0.120	10.0	pg/l	94		64-162		
1234678-HpCDD	2.74 J	0.170	10.0	pg/l	93		70-140		
OCDD	5.14 J	0.211	20.0	pg/l	91		78-144		
2378-TCDF	0.126 U	0.126	2.00	pg/l	87		75-158		
12378-PeCDF	0.105 U	0.105	10.0	pg/l	92		80-134		
23478-PeCDF	0.313 J	0.0932	10.0	pg/l	86		68-160		
123478-HxCDF	0.173 J	0.0690	10.0	pg/l	95		72-134		
123678-HxCDF	0.111 J	0.0673	10.0	pg/l	95		84-130		
123789-HxCDF	0.173 J	0.0595	10.0	pg/l	95		78-130		
234678-HxCDF	0.180 J	0.0648	10.0	pg/l	94		70-156		
1234678-HpCDF	0.593 J	0.0623	10.0	pg/l	88		82-122		
1234789-HpCDF	0.213 J	0.0722	10.0	pg/l	90		78-138		
OCDF	0.562 J	0.138	20.0	pg/l	92		63-170		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/19/12 at 07:41 AM

Group Number: 1313747

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12164162401A									
Moisture CDM									
				Sample number(s): 6677896-6677901		BKG: P676282			
						12.6	12.7	1	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a. Dioxins/Furans 10-15 day

Batch number: 12161001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6677896	79	82	77	75	78	67
6677897	78	78	75	76	85	74
6677898	76	76	76	77	80	72
6677899	85	85	78	77	82	78
6677900	75	79	75	77	81	75
6677901	74	73	72	74	79	76
Blank	81	83	85	88	88	93
OPR	72	77	73	75	76	76
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6677896	72	52	40	83	81	80
6677897	76	59	46	82	88	85
6677898	76	59	48	77	85	83
6677899	77	67	61	87	85	83
6677900	76	65	55	81	84	81
6677901	77	63	56	76	82	81
Blank	101	87	85	89	97	94
OPR	86	67	64	83	83	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6677896	80	72	59	80	82	
6677897	84	74	65	77	80	
6677898	82	74	62	68	78	
6677899	84	77	68	72	87	
6677900	83	75	64	71	78	
6677901	81	75	68	67	75	
Blank	97	101	100	71	84	
OPR	86	82	81	66	78	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/19/12 at 07:41 AM

Group Number: 1313747

### Surrogate Quality Control

Limits: 28-130                      23-140                      17-157                      24-169                      24-185

Analysis Name: 10b. Dioxins/Furans 10-15 day  
Batch number: 12164002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6677895	63	72	60	58	61	68
Blank	80	97	76	76	77	87
OPR	81	94	78	77	76	87

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6677895	56	53	47	73	62	63
Blank	72	70	60	96	81	80
OPR	74	71	63	96	81	82

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6677895	62	57	52	64	71
Blank	78	74	63	83	92
OPR	82	77	68	79	93

Limits: 28-130                      23-140                      17-157                      24-169                      24-185

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct #13013 Cp #1313747

Sample # 6677895-901  
**SSFL Phase 3 Chain of Custody**


CDM Smith  
 Date Shipped: 6/5/2012  
 Carrier Name: FedEx  
 Airbill No: 7984 7533 5592

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120605-03  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetic 8330	Nitrates 300.0/9056	Tartrhenis 8015	Alcohol 8015	Glycols 8015	TPH-ETH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6950/6960	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SIOC 8270	Fluoride 300.0/9056	Mercury 7471 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes					
FB-060512	6/5/12 15:00	WQ	None	3 - 1 L Amber	10 day				X				X																													
SL-561-SASC-SB-0.0-0.5	6/5/12 10:20	SO	None	1 - 4 oz glass	10 day																						X															
SL-561-SASC-SB-5.5-6.5	6/5/12 10:25	SO	None	1 - 4 oz glass	10 day																						X															
SL-615-SASC-SB-4.0-5.0	6/5/12 11:50	SO	None	1 - 4 oz glass	10 day																						X															
SL-615-SASC-SB-9.0-10.0	6/5/12 11:55	SO	None	1 - 4 oz glass	10 day																						X															
SL-539-SASC-SB-0.0-0.5	6/5/12 01:55	SO	None	1 - 4 oz glass	10 day																						X															
SL-539-SASC-SB-6.0-7.0	6/5/12 02:05	SO	None	1 - 4 oz glass	10 day																						X															

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
		6/6/12									
									Benny	6-6-12	905
									Benny		

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 19, 2012

Project: SSFL Phase 3 Sampling

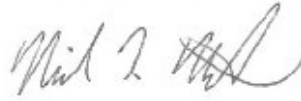
Submittal Date: 06/07/2012  
Group Number: 1314040  
SDG: PH011  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-567-SA5C-SB-0.0-0.5 Soil  
SL-567-SA5C-SB-3.0-4.0 SoilLancaster Labs (LLI) #6679137  
6679138

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC     CDM Federal Services Program  
COPY TO  
ELECTRONIC     Data Package Group  
COPY TO

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-567-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-567-SA5C-SB

LLI Sample # SW 6679137  
LLI Group # 1314040  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/06/2012 08:30

CDM Federal Programs Corp.

Submitted: 06/07/2012 09:10

3201 Jermantown Road

Reported: 06/19/2012 07:43

Suite 400

Fairfax VA 22030

H1118 SDG#: PH011-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-567-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-567-SA5C-SB

LLI Sample # SW 6679137  
LLI Group # 1314040  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/06/2012 08:30

CDM Federal Programs Corp.

Submitted: 06/07/2012 09:10

3201 Jermantown Road

Reported: 06/19/2012 07:43

Suite 400

Fairfax VA 22030

H1118 SDG#: PH011-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0798 JBQ	0.0171	1.11	1
11031	12378-PeCDD	40321-76-4	0.0848 JQ	0.0188	5.53	1
11031	123478-HxCDD	39227-28-6	0.0419 JBQ	0.0146	5.53	1
11031	123678-HxCDD	57653-85-7	0.0695 JBQ	0.0160	5.53	1
11031	123789-HxCDD	19408-74-3	0.0628 JBQ	0.0150	5.53	1
11031	1234678-HpCDD	35822-46-9	0.380 JB	0.0197	5.53	1
11031	OCDD	3268-87-9	1.00 JB	0.0231	11.1	1
11031	2378-TCDF	51207-31-9	0.0300 J	0.0124	1.11	1
11031	12378-PeCDF	57117-41-6	0.126 JBQ	0.0119	5.53	1
11031	23478-PeCDF	57117-31-4	0.140 JB	0.0107	5.53	1
11031	123478-HxCDF	70648-26-9	0.0832 JB	0.00982	5.53	1
11031	123678-HxCDF	57117-44-9	0.0841 JB	0.00957	5.53	1
11031	123789-HxCDF	72918-21-9	0.0517 JB	0.0102	5.53	1
11031	234678-HxCDF	60851-34-5	0.0332 JBQ	0.00891	5.53	1
11031	1234678-HpCDF	67562-39-4	0.0715 JB	0.00871	5.53	1
11031	1234789-HpCDF	55673-89-7	0.0367 JB	0.0114	5.53	1
11031	OCDF	39001-02-0	0.123 JB	0.0198	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	97	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	94	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	56	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-567-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-567-SA5C-SB

LLI Sample # SW 6679137  
LLI Group # 1314040  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/06/2012 08:30

CDM Federal Programs Corp.

Submitted: 06/07/2012 09:10

3201 Jermantown Road

Reported: 06/19/2012 07:43

Suite 400

Fairfax VA 22030

H1118 SDG#: PH011-18

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-567-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-567-SA5C-SB

LLI Sample # SW 6679137  
LLI Group # 1314040  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/06/2012 08:30

CDM Federal Programs Corp.

Submitted: 06/07/2012 09:10

3201 Jermantown Road

Reported: 06/19/2012 07:43

Suite 400

Fairfax VA 22030

H1118 SDG#: PH011-18

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/14/2012 22:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401B	06/12/2012 11:44	William C Schwebel	1

**Sample Description:** SL-567-SA5C-SB-3.0-4.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-567-SA5C-SB

LLI Sample # SW 6679138  
LLI Group # 1314040  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/06/2012 08:34

CDM Federal Programs Corp.

Submitted: 06/07/2012 09:10

3201 Jermantown Road

Reported: 06/19/2012 07:43

Suite 400

Fairfax VA 22030

H1119 SDG#: PH011-19\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-567-SA5C-SB-3.0-4.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-567-SA5C-SB

LLI Sample # SW 6679138  
LLI Group # 1314040  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/06/2012 08:34

CDM Federal Programs Corp.

Submitted: 06/07/2012 09:10

3201 Jermantown Road

Reported: 06/19/2012 07:43

Suite 400

Fairfax VA 22030

H1119 SDG#: PH011-19\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0171 U	0.0171	1.14	1
11031	12378-PeCDD	40321-76-4	0.0672 JQ	0.0183	5.69	1
11031	123478-HxCDD	39227-28-6	0.0372 JB	0.0140	5.69	1
11031	123678-HxCDD	57653-85-7	0.0438 JB	0.0145	5.69	1
11031	123789-HxCDD	19408-74-3	0.0581 JB	0.0139	5.69	1
11031	1234678-HpCDD	35822-46-9	0.333 JB	0.0197	5.69	1
11031	OCDD	3268-87-9	1.04 JB	0.0235	11.4	1
11031	2378-TCDF	51207-31-9	0.0233 J	0.0124	1.14	1
11031	12378-PeCDF	57117-41-6	0.0748 JB	0.0109	5.69	1
11031	23478-PeCDF	57117-31-4	0.0760 JB	0.00988	5.69	1
11031	123478-HxCDF	70648-26-9	0.0483 JB	0.00859	5.69	1
11031	123678-HxCDF	57117-44-9	0.0407 JB	0.00839	5.69	1
11031	123789-HxCDF	72918-21-9	0.0292 JB	0.00870	5.69	1
11031	234678-HxCDF	60851-34-5	0.0225 JBQ	0.00767	5.69	1
11031	1234678-HpCDF	67562-39-4	0.0577 JB	0.00805	5.69	1
11031	1234789-HpCDF	55673-89-7	0.0133 JB	0.0119	5.69	1
11031	OCDF	39001-02-0	0.109 JBQ	0.0212	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	63	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	44	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-567-SA5C-SB-3.0-4.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-567-SA5C-SB

LLI Sample # SW 6679138  
 LLI Group # 1314040  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/06/2012 08:34

CDM Federal Programs Corp.

Submitted: 06/07/2012 09:10

3201 Jermantown Road

Reported: 06/19/2012 07:43

Suite 400

Fairfax VA 22030

H1119 SDG#: PH011-19\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-567-SA5C-SB-3.0-4.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-567-SA5C-SB

LLI Sample # SW 6679138  
LLI Group # 1314040  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/06/2012 08:34

CDM Federal Programs Corp.

Submitted: 06/07/2012 09:10

3201 Jermantown Road

Reported: 06/19/2012 07:43

Suite 400

Fairfax VA 22030

H1119 SDG#: PH011-19\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12161001	06/14/2012 23:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12161001	06/10/2012 12:50	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12164162401B	06/12/2012 11:44	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/19/12 at 07:43 AM

Group Number: 1314040

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
----------------------	---------------------	--------------------	------------------	---------------------	-----------------	------------------	------------------------	------------	----------------

Batch number: 12164162401B  
Moisture CDM

Sample number(s): 6679137-6679138

100 80-120

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
----------------------	---------------------	--------------------	------------------	---------------------	-----------------	------------------	------------------------	------------	----------------

Batch number: 12161001

Sample number(s): 6679137-6679138

2378-TCDD	0.0228 J	0.0161	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0135 U	0.0135	5.00	ng/kg	97		70-142		
123478-HxCDD	0.0166 J	0.0113	5.00	ng/kg	91		70-164		
123678-HxCDD	0.0305 J	0.0125	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0372 J	0.0112	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.264 J	0.0138	5.00	ng/kg	96		70-140		
OCDD	0.394 J	0.0144	10.0	ng/kg	91		78-144		
2378-TCDF	0.0115 U	0.0115	1.00	ng/kg	92		75-158		
12378-PeCDF	0.0184 J	0.00921	5.00	ng/kg	96		80-134		
23478-PeCDF	0.0560 J	0.00855	5.00	ng/kg	90		68-160		
123478-HxCDF	0.0203 J	0.00656	5.00	ng/kg	97		72-134		
123678-HxCDF	0.0156 J	0.00635	5.00	ng/kg	97		84-130		
123789-HxCDF	0.0198 J	0.00597	5.00	ng/kg	97		78-130		
234678-HxCDF	0.0178 J	0.00624	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0526 J	0.00541	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0191 J	0.00685	5.00	ng/kg	95		78-138		
OCDF	0.0626 J	0.0116	10.0	ng/kg	93		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
----------------------	----------------	-----------------	----------------------	------------	----------------	-----------------	-----------------	----------------	--------------------

Batch number: 12164162401B  
Moisture CDM

Sample number(s): 6679137-6679138 BKG: 6679137

10.7 10.8 0 20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/19/12 at 07:43 AM

Group Number: 1314040

### Surrogate Quality Control

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12161001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6679137	86	86	86	89	92	85
6679138	73	76	75	74	79	73
Blank	81	83	85	88	88	93
OPR	72	77	73	75	76	76
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6679137	86	69	56	89	97	92
6679138	76	56	44	76	83	80
Blank	101	87	85	89	97	94
OPR	86	67	64	83	83	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6679137	94	83	71	81	86	
6679138	81	73	63	70	76	
Blank	97	101	100	71	84	
OPR	86	82	81	66	78	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct #13013 Cup # 1314040

Sample # 6679137-38  
**SSFL Phase 3 Chain of Custody**

CDM Smith  
 DateShipped: 6/6/2012  
 CarrierName: FedEx  
 AirbillNo: 7936 4964 3003

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120606-02  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Emergents 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	pH 9040 (Water)	OH 9045 (Soil)	Perrchlorate Confirm 6850/6860	Perrchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9055	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes				
SL-567-SASC-SB-0.0-0.5	6/6/12 08:30	SO	None	1 - 4 oz glass	10 day																																				
SL-567-SASC-SB-3.0-4.0	6/6/12 08:34	SO	None	1 - 4 oz glass	10 day																																				
SL-568-SASC-SB-0.0-0.5	6/6/12 10:45	SO	None	1 - 4 oz glass	10 day																																				
SL-568-SASC-SB-4.0-5.0	6/6/12 11:00	SO	None	1 - 4 oz glass	10 day																																				
SL-568-SASC-SB-9.0-10.0	6/6/12 11:25	SO	None	1 - 4 oz glass	10 day																																				

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	6/6/12									

*Burby* 6-7-12 910  
*Burby*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 14, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 06/07/2012  
Group Number: 1314041  
SDG: PT010  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

Client Sample Description

SL-568-SA5C-SB-0.0-0.5 Soil  
SL-568-SA5C-SB-4.0-5.0 Soil  
SL-568-SA5C-SB-9.0-10.0 Soil

Lancaster Labs (LLI) #

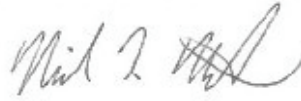
6679139  
6679140  
6679141

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
1 COPY TO      Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-568-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-568-SA5C-SB

LLI Sample # SW 6679139  
LLI Group # 1314041  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/06/2012 10:45

CDM Federal Programs Corp.

Submitted: 06/07/2012 09:10

3201 Jermantown Road

Reported: 06/14/2012 13:35

Suite 400

Fairfax VA 22030

T1001 SDG#: PT010-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,400	U 1,400	3,400	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	12.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121630004A	06/13/2012 17:53	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121630004A	06/11/2012 19:00	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-568-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-568-SA5C-SB

LLI Sample # SW 6679140  
LLI Group # 1314041  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/06/2012 11:00

CDM Federal Programs Corp.

Submitted: 06/07/2012 09:10

3201 Jermantown Road

Reported: 06/14/2012 13:35

Suite 400

Fairfax VA 22030

T1002 SDG#: PT010-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,400	U 1,400	3,400	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	11.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121630004A	06/13/2012 18:02	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121630004A	06/11/2012 19:00	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-568-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-568-SA5C-SB

LLI Sample # SW 6679141  
LLI Group # 1314041  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/06/2012 11:25

CDM Federal Programs Corp.

Submitted: 06/07/2012 09:10

3201 Jermantown Road

Reported: 06/14/2012 13:35

Suite 400

Fairfax VA 22030

T1003 SDG#: PT010-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,400	U 1,400	3,400	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	13.0	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121630004A	06/13/2012 18:12	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121630004A	06/11/2012 19:00	Wanda F Oswald	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/14/12 at 01:35 PM

Group Number: 1314041

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121630004A 20a Formaldehyde 8315A	1,200 U	1,200.	3,000	ug/kg	96		80-126		
Batch number: 12165162401A Moisture Content by 160.3					100		80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121630004A 20a Formaldehyde 8315A	95	83	80-120	14	50				
Batch number: 12165162401A Moisture Content by 160.3						BKG: P684329 7.7	7.2	7	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121630004A  
Butyraldehyde

---

6679139	68
6679140	106
6679141	106
Blank	116
LCS	102
MS	105
MSD	102

---

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

**Quality Control Summary**

Client Name: CDM Federal Programs Corp.  
Reported: 06/14/12 at 01:35 PM

Group Number: 1314041

**Surrogate Quality Control**

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

acct # 13013 Cp # 1314041

Sample # 6679139-41  
**SSFL Phase 3 Chain of Custody**

CDM Smith  
 Date Shipped: 6/6/2012  
 Carrier Name: FedEx  
 Airbill No: 7936 4964 3003

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120606-02  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1690	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glucols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cl 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes		
SL-567-SA5C-SB-0.0-0.5	6/6/12 08:30	SO	None	1 - 4 oz glass	10 day																																		
SL-567-SA5C-SB-3.0-4.0	6/6/12 08:34	SO	None	1 - 4 oz glass	10 day																																		
SL-568-SA5C-SB-0.0-0.5	6/6/12 10:45	SO	None	1 - 4 oz glass	10 day																																		
SL-568-SA5C-SB-4.0-5.0	6/6/12 11:00	SO	None	1 - 4 oz glass	10 day																																		
SL-568-SA5C-SB-9.0-10.0	6/6/12 11:25	SO	None	1 - 4 oz glass	10 day																																		

Special Instructions: **SAMPLES TRANSFERRED FROM**  
**CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	<i>[Date]</i>									
									<i>Burnby</i>	6-7-12	910

*Burnby*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

## Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 15, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 06/08/2012  
Group Number: 1314433  
SDG: PH012  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

Client Sample Description

EB1-060712 Water

Lancaster Labs (LLI) #

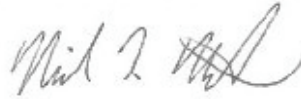
6680718

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
ELECTRONIC COPY TO  
CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

Sample Description: **EB1-060712 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB1**

LLI Sample # **WW 6680718**  
 LLI Group # **1314433**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 06/07/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/08/2012 09:15

3201 Jermantown Road

Reported: 06/15/2012 12:28

Suite 400

Fairfax VA 22030

EB607 SDG#: PH012-01EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.874 JB	0.263	2.16	1
10915	12378-PeCDD	40321-76-4	0.233 U	0.233	10.8	1
10915	123478-HxCDD	39227-28-6	0.196 U	0.196	10.8	1
10915	123678-HxCDD	57653-85-7	0.460 JBQ	0.201	10.8	1
10915	123789-HxCDD	19408-74-3	0.256 JB	0.194	10.8	1
10915	1234678-HpCDD	35822-46-9	4.97 JB	0.253	10.8	1
10915	OCDD	3268-87-9	12.6 JB	0.300	21.6	1
10915	2378-TCDF	51207-31-9	0.164 U	0.164	2.16	1
10915	12378-PeCDF	57117-41-6	0.333 JQ	0.154	10.8	1
10915	23478-PeCDF	57117-31-4	0.348 JBQ	0.135	10.8	1
10915	123478-HxCDF	70648-26-9	0.367 JBQ	0.120	10.8	1
10915	123678-HxCDF	57117-44-9	0.139 JBQ	0.114	10.8	1
10915	123789-HxCDF	72918-21-9	0.111 U	0.111	10.8	1
10915	234678-HxCDF	60851-34-5	0.108 U	0.108	10.8	1
10915	1234678-HpCDF	67562-39-4	0.926 JB	0.114	10.8	1
10915	1234789-HpCDF	55673-89-7	0.208 JB	0.133	10.8	1
10915	OCDF	39001-02-0	1.06 JBQ	0.239	21.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	51	25 - 164
13C12-12378-PeCDD	56	25 - 181
13C12-123478-HxCDD	46	32 - 141
13C12-123678-HxCDD	46	28 - 130
13C12-123789-HxCDD	46	28 - 130
13C12-1234678-HpCDD	43	23 - 140
13C12-OCDD	37	17 - 157
13C12-2378-TCDF	55	24 - 169
13C12-12378-PeCDF	55	24 - 185
13C12-23478-PeCDF	57	21 - 178
13C12-123478-HxCDF	43	26 - 152
13C12-123678-HxCDF	42	26 - 123
13C12-234678-HxCDF	45	28 - 136
13C12-123789-HxCDF	47	29 - 147
13C12-1234678-HpCDF	40	28 - 143
13C12-1234789-HpCDF	39	26 - 138
13C12-OCDF	34	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB1-060712 Water  
SSFL Phase 3 Soil Sampling  
EB1

LLI Sample # WW 6680718  
LLI Group # 1314433  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/07/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/08/2012 09:15

3201 Jermantown Road

Reported: 06/15/2012 12:28

Suite 400

Fairfax VA 22030

EB607 SDG#: PH012-01EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans day	10-15 EPA 1613B	1	12164002	06/15/2012 06:57	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12164002	06/13/2012 08:40	Ginelle L Haines	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/15/12 at 12:28 PM

Group Number: 1314433

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12164002	Sample number(s): 6680718								
2378-TCDD	0.286 J	0.193	2.00	pg/l	97		67-158		
12378-PeCDD	0.366 J	0.148	10.0	pg/l	96		70-142		
123478-HxCDD	0.179 J	0.117	10.0	pg/l	90		70-164		
123678-HxCDD	0.241 J	0.123	10.0	pg/l	88		76-134		
123789-HxCDD	0.219 J	0.120	10.0	pg/l	94		64-162		
1234678-HpCDD	2.74 J	0.170	10.0	pg/l	93		70-140		
OCDD	5.14 J	0.211	20.0	pg/l	91		78-144		
2378-TCDF	0.126 U	0.126	2.00	pg/l	87		75-158		
12378-PeCDF	0.105 U	0.105	10.0	pg/l	92		80-134		
23478-PeCDF	0.313 J	0.0932	10.0	pg/l	86		68-160		
123478-HxCDF	0.173 J	0.0690	10.0	pg/l	95		72-134		
123678-HxCDF	0.111 J	0.0673	10.0	pg/l	95		84-130		
123789-HxCDF	0.173 J	0.0595	10.0	pg/l	95		78-130		
234678-HxCDF	0.180 J	0.0648	10.0	pg/l	94		70-156		
1234678-HpCDF	0.593 J	0.0623	10.0	pg/l	88		82-122		
1234789-HpCDF	0.213 J	0.0722	10.0	pg/l	90		78-138		
OCDF	0.562 J	0.138	20.0	pg/l	92		63-170		

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b. Dioxins/Furans 10-15 day

Batch number: 12164002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6680718	51	57	43	42	45	47
Blank	80	97	76	76	77	87
OPR	81	94	78	77	76	87
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6680718	40	39	34	56	46	46
Blank	72	70	60	96	81	80
OPR	74	71	63	96	81	82

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/15/12 at 12:28 PM

Group Number: 1314433

		Surrogate Quality Control					
Limits:		28-143	26-138	17-157	25-181	32-141	28-130
		13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6680718	46	43	37	55	55		
Blank	78	74	63	83	92		
OPR	82	77	68	79	93		
Limits:		28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the MRL.
- (2) The unspiked result was more than four times the spike added.

acct#13013 Cup# 1314433

sample# 6680718  
**SSFL Phase 3 Chain of Custody**

CDM Smith

Date Shipped: 6/7/2012

Carrier Name: FedEx

Airbill No:

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No:

20120607-03

Cooler #:

Lab:

Lancaster

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Orbionin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Emeretics 8330	Nitrates 300.0/9056	Terphenols 8015	Alcohols 8015	Glycols 8015	TPH-EPH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex C 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Pentachloro Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SIOC 8270	Fluorides 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes		
EB1-060712	6/7/12 15:00	WQ	None	1 - 1 L Amber	10 day				X																														

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>										
									<i>[Signature]</i>	6/6/12	9:15

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<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
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<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

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<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 12, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 06/08/2012  
Group Number: 1314435  
SDG: PT010  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample Description

EB1-060712 Water

Lancaster Labs (LLI) #

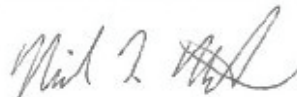
6680720

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC  
COPY TO  
1 COPY TOCDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,

Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259



Lancaster  
Laboratories

# ***Analysis Report***

---

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

**Sample Description:** EB1-060712 Water  
SSFL Phase 3 Soil Sampling  
EB1

LLI Sample # WW 6680720  
LLI Group # 1314435  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/07/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/08/2012 09:15

3201 Jermantown Road

Reported: 06/12/2012 15:37

Suite 400

Fairfax VA 22030

FRMEB SDG#: PT010-04EB\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		ug/l	ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10 U	10	50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	20b Formaldehyde 8315A	SW-846 8315A	1	121610001A	06/11/2012 14:39	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	121610001A	06/10/2012 10:00	Kelli M Barto	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/12/12 at 03:37 PM

Group Number: 1314435

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121610001A 20b Formaldehyde 8315A	10	U 10.	50	ug/l	100	98	69-130	2	30

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20b Formaldehyde 8315A  
Batch number: 121610001A  
Butyraldehyde

---

6680720	102
Blank	103
LCS	101
LCSD	101

---

Limits: 45-145

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

acc# 13013 Cp# 1314435

# Sample # 6680720 SSFL Phase 3 Chain of Custody

CDM Smith  
Date Shipped: 6/7/2012  
Carrier Name: FedEx  
Airbill No:

Contact Name: Pam Hartman  
Contact Phone: (818)466-8007

No: 20120607-03  
Cooler #:   
Lab: Lancaster  
Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Other Analysis/Notes																														
EB1-060712	6/7/12 15:00	WQ	None	1 - 1 L Amber	10 day	Methyl Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Enferetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EH1 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex C 7196/7199	PH 9040 (Water)	PH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020

Special Instructions:

SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>										
									<i>[Signature]</i>	6/5/12	9:15

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 19, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 06/12/2012  
Group Number: 1315123  
SDG: PH012  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-518-SA5C-SB-4.0-5.0 Soil  
SL-518-SA5C-SB-9.0-10.0 Soil  
SL-509-SA5C-SB-9.0-10.0 Soil  
SL-809-SA5C-SB-4.0-5.0 Soil  
SL-509-SA5C-SB-4.0-5.0 Soil  
SL-509-SA5C-SB-4.0-5.0 MS Soil  
SL-509-SA5C-SB-4.0-5.0 MSD Soil  
SL-574-SA5C-SB-4.0-5.0 Soil  
SL-574-SA5C-SB-9.0-10.0 Soil  
SL-508-SA5C-SB-4.0-5.0 Soil  
SL-508-SA5C-SB-6.5-7.5 Soil  
SL-507-SA5C-SB-2.5-3.5 Soil  
SL-520-SA5C-SB-6.5-7.5 Soil  
SL-521-SA5C-SB-0.0-0.5 Soil  
SL-521-SA5C-SB-4.0-5.0 Soil  
SL-521-SA5C-SB-9.0-10.0 SoilLancaster Labs (LLI) #6684325  
6684326  
6684327  
6684328  
6684329  
6684330  
6684331  
6684332  
6684333  
6684334  
6684335  
6684336  
6684337  
6684338  
6684339  
6684340

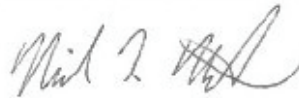
The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC CDM Federal Services Program  
COPY TO  
ELECTRONIC Data Package Group

Attn: Todd Burgesser

COPY TO

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-518-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-518-SA5C-SB

LLI Sample # SW 6684325  
 LLI Group # 1315123  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 09:24

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1202 SDG#: PH012-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	10.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-518-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-518-SA5C-SB

LLI Sample # SW 6684325  
LLI Group # 1315123  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/11/2012 09:24

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1202 SDG#: PH012-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0170 JQ	0.0134	1.08	1
11031	12378-PeCDD	40321-76-4	0.0296 J	0.0130	5.42	1
11031	123478-HxCDD	39227-28-6	0.0212 JB	0.0152	5.42	1
11031	123678-HxCDD	57653-85-7	0.0864 JBQ	0.0156	5.42	1
11031	123789-HxCDD	19408-74-3	0.115 JB	0.0158	5.42	1
11031	1234678-HpCDD	35822-46-9	1.48 JB	0.0192	5.42	1
11031	OCDD	3268-87-9	23.5 B	0.0157	10.8	1
11031	2378-TCDF	51207-31-9	0.0116 U	0.0116	1.08	1
11031	12378-PeCDF	57117-41-6	0.0303 JB	0.00887	5.42	1
11031	23478-PeCDF	57117-31-4	0.0643 JB	0.00872	5.42	1
11031	123478-HxCDF	70648-26-9	0.0373 JBQ	0.0102	5.42	1
11031	123678-HxCDF	57117-44-9	0.0332 JB	0.00892	5.42	1
11031	123789-HxCDF	72918-21-9	0.0712 JB	0.00950	5.42	1
11031	234678-HxCDF	60851-34-5	0.0217 JB	0.00919	5.42	1
11031	1234678-HpCDF	67562-39-4	0.156 JB	0.00902	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0532 JBQ	0.0144	5.42	1
11031	OCDF	39001-02-0	0.397 JB	0.0173	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	52	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-518-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-518-SA5C-SB

LLI Sample # SW 6684325  
 LLI Group # 1315123  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 09:24

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1202 SDG#: PH012-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-518-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-518-SA5C-SB

LLI Sample # SW 6684325  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 09:24

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1202 SDG#: PH012-02

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the sample bottle(s) upon receipt at the lab was  
6.6-8.7 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality  
Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 01:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-518-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-518-SA5C-SB

LLI Sample # SW 6684326  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 09:28

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1203 SDG#: PH012-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-518-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-518-SA5C-SB

LLI Sample # SW 6684326  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 09:28

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1203 SDG#: PH012-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0519	JQ	0.0178	1.07	1
11031	12378-PeCDD	40321-76-4	0.304	J	0.0254	5.35	1
11031	123478-HxCDD	39227-28-6	0.431	JB	0.0311	5.35	1
11031	123678-HxCDD	57653-85-7	1.09	JB	0.0322	5.35	1
11031	123789-HxCDD	19408-74-3	1.12	JB	0.0308	5.35	1
11031	1234678-HpCDD	35822-46-9	25.3	B	0.0594	5.35	1
11031	OCDD	3268-87-9	462	B	0.0316	10.7	1
11031	2378-TCDF	51207-31-9	0.0635	J	0.0276	1.07	1
11031	12378-PeCDF	57117-41-6	0.124	JB	0.0201	5.35	1
11031	23478-PeCDF	57117-31-4	0.232	JB	0.0178	5.35	1
11031	123478-HxCDF	70648-26-9	0.171	JB	0.0190	5.35	1
11031	123678-HxCDF	57117-44-9	0.121	JB	0.0186	5.35	1
11031	123789-HxCDF	72918-21-9	0.346	JB	0.0200	5.35	1
11031	234678-HxCDF	60851-34-5	0.153	JB	0.0173	5.35	1
11031	1234678-HpCDF	67562-39-4	1.80	JB	0.0160	5.35	1
11031	1234789-HpCDF	55673-89-7	0.161	JB	0.0189	5.35	1
11031	OCDF	39001-02-0	6.32	JB	0.0230	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	65	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-518-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-518-SA5C-SB

LLI Sample # SW 6684326  
 LLI Group # 1315123  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 09:28

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1203 SDG#: PH012-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-518-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-518-SA5C-SB

LLI Sample # SW 6684326  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 09:28

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1203 SDG#: PH012-03

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the sample bottle(s) upon receipt at the lab was  
6.6-8.7 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality  
Control Summary for overall QC performance data and associated samples.

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CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 02:16	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-509-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684327  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:38

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1204 SDG#: PH012-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	6.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-509-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684327  
LLI Group # 1315123  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/11/2012 08:38

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

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H1204 SDG#: PH012-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0308	J	0.0169	1.06	1
11031	12378-PeCDD	40321-76-4	0.129	J	0.0227	5.29	1
11031	123478-HxCDD	39227-28-6	0.208	JB	0.0229	5.29	1
11031	123678-HxCDD	57653-85-7	0.556	JB	0.0247	5.29	1
11031	123789-HxCDD	19408-74-3	0.580	JB	0.0244	5.29	1
11031	1234678-HpCDD	35822-46-9	11.0	B	0.0369	5.29	1
11031	OCDD	3268-87-9	175	B	0.0270	10.6	1
11031	2378-TCDF	51207-31-9	0.0436	J	0.0189	1.06	1
11031	12378-PeCDF	57117-41-6	0.150	JBQ	0.0131	5.29	1
11031	23478-PeCDF	57117-31-4	0.103	JB	0.0127	5.29	1
11031	123478-HxCDF	70648-26-9	0.132	JB	0.0210	5.29	1
11031	123678-HxCDF	57117-44-9	0.105	JB	0.0182	5.29	1
11031	123789-HxCDF	72918-21-9	0.268	JBQ	0.0224	5.29	1
11031	234678-HxCDF	60851-34-5	0.138	JB	0.0190	5.29	1
11031	1234678-HpCDF	67562-39-4	1.37	JB	0.0111	5.29	1
11031	1234789-HpCDF	55673-89-7	0.113	JB	0.0183	5.29	1
11031	OCDF	39001-02-0	3.19	JB	0.0274	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	50	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-509-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684327  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:38

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H1204 SDG#: PH012-04

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-509-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684327  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:38

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H1204 SDG#: PH012-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 03:12	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-809-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-809-SA5C-SB

LLI Sample # SW 6684328  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:30

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H1205 SDG#: PH012-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-809-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-809-SA5C-SB

LLI Sample # SW 6684328  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:30

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H1205 SDG#: PH012-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0169 J	0.0143	1.10	1
11031	12378-PeCDD	40321-76-4	0.0473 JQ	0.0165	5.48	1
11031	123478-HxCDD	39227-28-6	0.0378 JB	0.0168	5.48	1
11031	123678-HxCDD	57653-85-7	0.0834 JB	0.0183	5.48	1
11031	123789-HxCDD	19408-74-3	0.107 JBQ	0.0173	5.48	1
11031	1234678-HpCDD	35822-46-9	1.91 JB	0.0225	5.48	1
11031	OCDD	3268-87-9	28.3 B	0.0215	11.0	1
11031	2378-TCDF	51207-31-9	0.0120 U	0.0120	1.10	1
11031	12378-PeCDF	57117-41-6	0.0342 JB	0.00967	5.48	1
11031	23478-PeCDF	57117-31-4	0.0453 JB	0.00985	5.48	1
11031	123478-HxCDF	70648-26-9	0.0378 JB	0.0112	5.48	1
11031	123678-HxCDF	57117-44-9	0.0317 JB	0.0100	5.48	1
11031	123789-HxCDF	72918-21-9	0.0158 JB	0.0127	5.48	1
11031	234678-HxCDF	60851-34-5	0.0460 JB	0.00989	5.48	1
11031	1234678-HpCDF	67562-39-4	0.258 JB	0.00977	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0413 JB	0.0181	5.48	1
11031	OCDF	39001-02-0	0.558 JB	0.0228	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	47	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-809-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-809-SA5C-SB

LLI Sample # SW 6684328  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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H1205 SDG#: PH012-05

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-809-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-809-SA5C-SB

LLI Sample # SW 6684328  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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H1205 SDG#: PH012-05

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the sample bottle(s) upon receipt at the lab was  
6.6-8.7 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality  
Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 04:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-509-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684329  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:43

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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H1206 SDG#: PH012-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-509-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684329  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:43

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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H1206 SDG#: PH012-06BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0285	J	0.0184	1.06	1
11031	12378-PeCDD	40321-76-4	0.113	J	0.0186	5.31	1
11031	123478-HxCDD	39227-28-6	0.147	JB	0.0252	5.31	1
11031	123678-HxCDD	57653-85-7	0.465	JB	0.0279	5.31	1
11031	123789-HxCDD	19408-74-3	0.470	JB	0.0261	5.31	1
11031	1234678-HpCDD	35822-46-9	9.53	B	0.0366	5.31	1
11031	OCDD	3268-87-9	149	B	0.0255	10.6	1
11031	2378-TCDF	51207-31-9	0.0210	J	0.0188	1.06	1
11031	12378-PeCDF	57117-41-6	0.105	JB	0.0124	5.31	1
11031	23478-PeCDF	57117-31-4	0.0967	JB	0.0116	5.31	1
11031	123478-HxCDF	70648-26-9	0.120	JB	0.0202	5.31	1
11031	123678-HxCDF	57117-44-9	0.107	JB	0.0187	5.31	1
11031	123789-HxCDF	72918-21-9	0.173	JB	0.0228	5.31	1
11031	234678-HxCDF	60851-34-5	0.0972	JB	0.0181	5.31	1
11031	1234678-HpCDF	67562-39-4	1.11	JB	0.0100	5.31	1
11031	1234789-HpCDF	55673-89-7	0.0970	JBQ	0.0172	5.31	1
11031	OCDF	39001-02-0	2.60	JB	0.0222	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	75	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	46	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-509-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684329  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:43

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Submitted: 06/12/2012 09:25

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H1206 SDG#: PH012-06BKG

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-509-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684329  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:43

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H1206 SDG#: PH012-06BKG

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 05:06	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-509-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684330  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:43

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Submitted: 06/12/2012 09:25

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H1206 SDG#: PH012-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 7.7	% 0.50	% 0.50	1

Sample Description: SL-509-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684330  
LLI Group # 1315123  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/11/2012 08:43

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Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1206 SDG#: PH012-06MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	20.6	0.0269	1.05	1
11031	12378-PeCDD	40321-76-4	103	0.0325	5.23	1
11031	123478-HxCDD	39227-28-6	96.5	0.0295	5.23	1
11031	123678-HxCDD	57653-85-7	96.0	0.0326	5.23	1
11031	123789-HxCDD	19408-74-3	103	0.0306	5.23	1
11031	1234678-HpCDD	35822-46-9	110	0.0471	5.23	1
11031	OCDD	3268-87-9	407	0.0396	10.5	1
11031	2378-TCDF	51207-31-9	18.7	0.0290	1.05	1
11031	12378-PeCDF	57117-41-6	100	0.0257	5.23	1
11031	23478-PeCDF	57117-31-4	93.7	0.0258	5.23	1
11031	123478-HxCDF	70648-26-9	100	0.0375	5.23	1
11031	123678-HxCDF	57117-44-9	101	0.0349	5.23	1
11031	123789-HxCDF	72918-21-9	99.4	0.0371	5.23	1
11031	234678-HxCDF	60851-34-5	100	0.0337	5.23	1
11031	1234678-HpCDF	67562-39-4	95.4	0.0266	5.23	1
11031	1234789-HpCDF	55673-89-7	98.8	0.0404	5.23	1
11031	OCDF	39001-02-0	205	0.0247	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	61	26 - 138
13C12-OCDF	53	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-509-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684330  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:43

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1206 SDG#: PH012-06MS

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-509-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684330  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:43

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1206 SDG#: PH012-06MS

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 06:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-509-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684331  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:43

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

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Fairfax VA 22030

H1206 SDG#: PH012-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture CDM	n.a.	7.7	0.50	0.50	1
11626	Moisture Duplicate CDM	n.a.	7.2	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

Sample Description: SL-509-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684331  
LLI Group # 1315123  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/11/2012 08:43

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1206 SDG#: PH012-06MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	21.1	0.0205	1.04	1
11031	12378-PeCDD	40321-76-4	104	0.0324	5.18	1
11031	123478-HxCDD	39227-28-6	96.5	B 0.0332	5.18	1
11031	123678-HxCDD	57653-85-7	95.7	B 0.0350	5.18	1
11031	123789-HxCDD	19408-74-3	102	B 0.0339	5.18	1
11031	1234678-HpCDD	35822-46-9	107	B 0.0521	5.18	1
11031	OCDD	3268-87-9	381	B 0.0360	10.4	1
11031	2378-TCDF	51207-31-9	18.9	0.0329	1.04	1
11031	12378-PeCDF	57117-41-6	99.3	B 0.0305	5.18	1
11031	23478-PeCDF	57117-31-4	91.9	B 0.0288	5.18	1
11031	123478-HxCDF	70648-26-9	99.2	B 0.0416	5.18	1
11031	123678-HxCDF	57117-44-9	101	B 0.0381	5.18	1
11031	123789-HxCDF	72918-21-9	100	B 0.0452	5.18	1
11031	234678-HxCDF	60851-34-5	98.2	B 0.0360	5.18	1
11031	1234678-HpCDF	67562-39-4	94.1	B 0.0290	5.18	1
11031	1234789-HpCDF	55673-89-7	98.2	B 0.0438	5.18	1
11031	OCDF	39001-02-0	200	B 0.0300	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	68	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	51	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-509-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684331  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:43

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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H1206 SDG#: PH012-06MSD

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-509-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-509-SA5C-SB

LLI Sample # SW 6684331  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 08:43

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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H1206 SDG#: PH012-06MSD

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 06:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1
11626	Moisture Duplicate CDM	EPA 160.3 modified	1	12165162401A	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-574-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-574-SA5C-SB

LLI Sample # SW 6684332  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 11:25

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1207 SDG#: PH012-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-574-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-574-SA5C-SB

LLI Sample # SW 6684332  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 11:25

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1207 SDG#: PH012-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0132 U	0.0132	1.08	1
11031	12378-PeCDD	40321-76-4	0.121 JQ	0.0159	5.40	1
11031	123478-HxCDD	39227-28-6	0.0534 JB	0.0166	5.40	1
11031	123678-HxCDD	57653-85-7	0.220 JB	0.0179	5.40	1
11031	123789-HxCDD	19408-74-3	0.291 JB	0.0166	5.40	1
11031	1234678-HpCDD	35822-46-9	1.03 JB	0.0185	5.40	1
11031	OCDD	3268-87-9	12.6 B	0.0180	10.8	1
11031	2378-TCDF	51207-31-9	0.0292 J	0.0118	1.08	1
11031	12378-PeCDF	57117-41-6	0.152 JB	0.0105	5.40	1
11031	23478-PeCDF	57117-31-4	0.112 JB	0.0104	5.40	1
11031	123478-HxCDF	70648-26-9	0.103 JB	0.0141	5.40	1
11031	123678-HxCDF	57117-44-9	0.0785 JB	0.0121	5.40	1
11031	123789-HxCDF	72918-21-9	0.283 JB	0.0147	5.40	1
11031	234678-HxCDF	60851-34-5	0.0682 JB	0.0111	5.40	1
11031	1234678-HpCDF	67562-39-4	0.170 JB	0.0102	5.40	1
11031	1234789-HpCDF	55673-89-7	0.0535 JB	0.0163	5.40	1
11031	OCDF	39001-02-0	0.328 JB	0.0191	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	56	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-574-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-574-SA5C-SB

LLI Sample # SW 6684332  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 11:25

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

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H1207 SDG#: PH012-07

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-574-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-574-SA5C-SB

LLI Sample # SW 6684332  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 11:25

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1207 SDG#: PH012-07

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the sample bottle(s) upon receipt at the lab was  
6.6-8.7 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality  
Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 07:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401B	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-574-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-574-SA5C-SB

LLI Sample # SW 6684333  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 11:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1208 SDG#: PH012-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-574-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-574-SA5C-SB

LLI Sample # SW 6684333  
LLI Group # 1315123  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/11/2012 11:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1208 SDG#: PH012-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0989	J	0.0189	1.11	1
11031	12378-PeCDD	40321-76-4	0.302	J	0.0209	5.53	1
11031	123478-HxCDD	39227-28-6	0.223	JB	0.0285	5.53	1
11031	123678-HxCDD	57653-85-7	0.399	JB	0.0301	5.53	1
11031	123789-HxCDD	19408-74-3	0.407	JB	0.0274	5.53	1
11031	1234678-HpCDD	35822-46-9	7.12	B	0.0293	5.53	1
11031	OCDD	3268-87-9	117	B	0.0235	11.1	1
11031	2378-TCDF	51207-31-9	0.132	J	0.0247	1.11	1
11031	12378-PeCDF	57117-41-6	0.430	JB	0.0171	5.53	1
11031	23478-PeCDF	57117-31-4	0.310	JB	0.0151	5.53	1
11031	123478-HxCDF	70648-26-9	0.250	JB	0.0241	5.53	1
11031	123678-HxCDF	57117-44-9	0.226	JB	0.0222	5.53	1
11031	123789-HxCDF	72918-21-9	0.211	JB	0.0246	5.53	1
11031	234678-HxCDF	60851-34-5	0.126	JB	0.0210	5.53	1
11031	1234678-HpCDF	67562-39-4	0.842	JB	0.0127	5.53	1
11031	1234789-HpCDF	55673-89-7	0.116	JB	0.0143	5.53	1
11031	OCDF	39001-02-0	2.27	JB	0.0186	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	101	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	99	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	77	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	68	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-574-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-574-SA5C-SB

LLI Sample # SW 6684333  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 11:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1208 SDG#: PH012-08

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-574-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-574-SA5C-SB

LLI Sample # SW 6684333  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 11:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1208 SDG#: PH012-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 11:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401B	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-508-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5C-SB

LLI Sample # SW 6684334  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 10:50

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1209 SDG#: PH012-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-508-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5C-SB

LLI Sample # SW 6684334  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 10:50

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1209 SDG#: PH012-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0395 J	0.0169	1.09	1
11031	12378-PeCDD	40321-76-4	0.153 J	0.0154	5.45	1
11031	123478-HxCDD	39227-28-6	0.0803 JB	0.0153	5.45	1
11031	123678-HxCDD	57653-85-7	0.0938 JB	0.0164	5.45	1
11031	123789-HxCDD	19408-74-3	0.105 JB	0.0161	5.45	1
11031	1234678-HpCDD	35822-46-9	1.05 JB	0.0222	5.45	1
11031	OCDD	3268-87-9	13.3 B	0.0233	10.9	1
11031	2378-TCDF	51207-31-9	0.0519 J	0.0141	1.09	1
11031	12378-PeCDF	57117-41-6	0.177 JB	0.00949	5.45	1
11031	23478-PeCDF	57117-31-4	0.152 JB	0.00996	5.45	1
11031	123478-HxCDF	70648-26-9	0.115 JB	0.0121	5.45	1
11031	123678-HxCDF	57117-44-9	0.0764 JB	0.0105	5.45	1
11031	123789-HxCDF	72918-21-9	0.0910 JB	0.0129	5.45	1
11031	234678-HxCDF	60851-34-5	0.0608 JB	0.00981	5.45	1
11031	1234678-HpCDF	67562-39-4	0.130 JB	0.00944	5.45	1
11031	1234789-HpCDF	55673-89-7	0.0442 JB	0.0175	5.45	1
11031	OCDF	39001-02-0	0.337 JB	0.0256	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	76	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	61	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	46	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-508-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5C-SB

LLI Sample # SW 6684334  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 10:50

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

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H1209 SDG#: PH012-09

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-508-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5C-SB

LLI Sample # SW 6684334  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 10:50

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1209 SDG#: PH012-09

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the sample bottle(s) upon receipt at the lab was  
6.6-8.7 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality  
Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 12:52	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401B	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-508-SA5C-SB-6.5-7.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-508-SA5C-SB

LLI Sample # SW 6684335  
 LLI Group # 1315123  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 10:55

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

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H1210 SDG#: PH012-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	6.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-508-SA5C-SB-6.5-7.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5C-SB

LLI Sample # SW 6684335  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 10:55

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1210 SDG#: PH012-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0170	U	0.0170	1.07	1
11031	12378-PeCDD	40321-76-4	0.0977	J	0.0192	5.33	1
11031	123478-HxCDD	39227-28-6	0.102	JB	0.0213	5.33	1
11031	123678-HxCDD	57653-85-7	0.164	JB	0.0222	5.33	1
11031	123789-HxCDD	19408-74-3	0.164	JB	0.0208	5.33	1
11031	1234678-HpCDD	35822-46-9	3.45	JB	0.0245	5.33	1
11031	OCDD	3268-87-9	59.6	B	0.0247	10.7	1
11031	2378-TCDF	51207-31-9	0.0301	J	0.0133	1.07	1
11031	12378-PeCDF	57117-41-6	0.109	JB	0.0109	5.33	1
11031	23478-PeCDF	57117-31-4	0.0844	JB	0.0114	5.33	1
11031	123478-HxCDF	70648-26-9	0.0617	JB	0.0133	5.33	1
11031	123678-HxCDF	57117-44-9	0.0507	JBQ	0.0108	5.33	1
11031	123789-HxCDF	72918-21-9	0.0794	JB	0.0144	5.33	1
11031	234678-HxCDF	60851-34-5	0.0628	JB	0.0122	5.33	1
11031	1234678-HpCDF	67562-39-4	0.323	JB	0.0116	5.33	1
11031	1234789-HpCDF	55673-89-7	0.0743	JB	0.0260	5.33	1
11031	OCDF	39001-02-0	0.916	JB	0.0290	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	48	26 - 138
13C12-OCDF	38	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-508-SA5C-SB-6.5-7.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-508-SA5C-SB

LLI Sample # SW 6684335  
 LLI Group # 1315123  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 10:55

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

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H1210 SDG#: PH012-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-508-SA5C-SB-6.5-7.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5C-SB

LLI Sample # SW 6684335  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 10:55

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

Suite 400

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H1210 SDG#: PH012-10

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the sample bottle(s) upon receipt at the lab was  
6.6-8.7 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality  
Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 13:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401B	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-507-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-507-SA5C-SB

LLI Sample # SW 6684336  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 13:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1211 SDG#: PH012-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-507-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-507-SA5C-SB

LLI Sample # SW 6684336  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 13:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1211 SDG#: PH012-11

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			<b>ng/kg</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0994	J	0.0205	1.02	1
11031	12378-PeCDD	40321-76-4	0.691	J	0.0362	5.08	1
11031	123478-HxCDD	39227-28-6	1.19	JB	0.0335	5.08	1
11031	123678-HxCDD	57653-85-7	2.94	JB	0.0373	5.08	1
11031	123789-HxCDD	19408-74-3	2.83	JB	0.0351	5.08	1
11031	1234678-HpCDD	35822-46-9	75.2	B	0.0837	5.08	1
11031	OCDD	3268-87-9	1,790	B	0.0506	10.2	1
11031	2378-TCDF	51207-31-9	0.0943	J	0.0318	1.02	1
11031	12378-PeCDF	57117-41-6	0.226	JB	0.0189	5.08	1
11031	23478-PeCDF	57117-31-4	0.337	JB	0.0189	5.08	1
11031	123478-HxCDF	70648-26-9	0.496	JB	0.0277	5.08	1
11031	123678-HxCDF	57117-44-9	0.333	JB	0.0236	5.08	1
11031	123789-HxCDF	72918-21-9	0.601	JB	0.0295	5.08	1
11031	234678-HxCDF	60851-34-5	0.679	JB	0.0235	5.08	1
11031	1234678-HpCDF	67562-39-4	6.50	B	0.0129	5.08	1
11031	1234789-HpCDF	55673-89-7	0.299	JB	0.0247	5.08	1
11031	OCDF	39001-02-0	14.9	B	0.0311	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	68	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	101	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	100	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	46	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-507-SA5C-SB-2.5-3.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-507-SA5C-SB

LLI Sample # SW 6684336  
 LLI Group # 1315123  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 13:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

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Fairfax VA 22030

H1211 SDG#: PH012-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-507-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-507-SA5C-SB

LLI Sample # SW 6684336  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 13:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1211 SDG#: PH012-11

### General Sample Comments

State of California Lab Certification No. 2501  
The temperature of the sample bottle(s) upon receipt at the lab was  
6.6-8.7 C using an IR thermometer.

All QC is compliant unless otherwise noted. Please refer to the Quality  
Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 14:45	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401B	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-520-SA5C-SB-6.5-7.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-520-SA5C-SB

LLI Sample # SW 6684337  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 14:50

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1212 SDG#: PH012-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	5.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-520-SA5C-SB-6.5-7.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-520-SA5C-SB

LLI Sample # SW 6684337  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 14:50

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

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H1212 SDG#: PH012-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0257	U	0.0257	1.04	1
11031	12378-PeCDD	40321-76-4	0.101	J	0.0210	5.22	1
11031	123478-HxCDD	39227-28-6	0.0880	JBQ	0.0327	5.22	1
11031	123678-HxCDD	57653-85-7	0.288	JB	0.0350	5.22	1
11031	123789-HxCDD	19408-74-3	0.203	JB	0.0319	5.22	1
11031	1234678-HpCDD	35822-46-9	5.58	B	0.0321	5.22	1
11031	OCDD	3268-87-9	59.2	B	0.0395	10.4	1
11031	2378-TCDF	51207-31-9	0.0448	J	0.0195	1.04	1
11031	12378-PeCDF	57117-41-6	0.0574	JB	0.0132	5.22	1
11031	23478-PeCDF	57117-31-4	0.117	JB	0.0123	5.22	1
11031	123478-HxCDF	70648-26-9	0.120	JB	0.0241	5.22	1
11031	123678-HxCDF	57117-44-9	0.0853	JB	0.0213	5.22	1
11031	123789-HxCDF	72918-21-9	0.0277	JBQ	0.0223	5.22	1
11031	234678-HxCDF	60851-34-5	0.105	JB	0.0209	5.22	1
11031	1234678-HpCDF	67562-39-4	0.845	JB	0.0274	5.22	1
11031	1234789-HpCDF	55673-89-7	0.130	JB	0.0275	5.22	1
11031	OCDF	39001-02-0	1.88	JB	0.0319	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	106	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	52	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	103	24 - 185
13C12-23478-PeCDF	102	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	69	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	51	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-520-SA5C-SB-6.5-7.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-520-SA5C-SB

LLI Sample # SW 6684337  
 LLI Group # 1315123  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 14:50

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1212 SDG#: PH012-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-520-SA5C-SB-6.5-7.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-520-SA5C-SB

LLI Sample # SW 6684337  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 14:50

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

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Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1212 SDG#: PH012-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 15:42	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401B	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-521-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-521-SA5C-SB

LLI Sample # SW 6684338  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 15:20

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1213 SDG#: PH012-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	14.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-521-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-521-SA5C-SB

LLI Sample # SW 6684338  
LLI Group # 1315123  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/11/2012 15:20

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1213 SDG#: PH012-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0311 JQ	0.0212	1.16	1
11031	12378-PeCDD	40321-76-4	0.170 J	0.0331	5.79	1
11031	123478-HxCDD	39227-28-6	0.0614 JBQ	0.0337	5.79	1
11031	123678-HxCDD	57653-85-7	1.10 JB	0.0365	5.79	1
11031	123789-HxCDD	19408-74-3	1.22 JB	0.0337	5.79	1
11031	1234678-HpCDD	35822-46-9	2.79 JB	0.0495	5.79	1
11031	OCDD	3268-87-9	36.1 B	0.0600	11.6	1
11031	2378-TCDF	51207-31-9	0.0562 J	0.0287	1.16	1
11031	12378-PeCDF	57117-41-6	0.249 JB	0.0243	5.79	1
11031	23478-PeCDF	57117-31-4	0.168 JB	0.0211	5.79	1
11031	123478-HxCDF	70648-26-9	0.0935 JBQ	0.0225	5.79	1
11031	123678-HxCDF	57117-44-9	0.151 JBQ	0.0212	5.79	1
11031	123789-HxCDF	72918-21-9	1.34 JB	0.0234	5.79	1
11031	234678-HxCDF	60851-34-5	0.115 JB	0.0209	5.79	1
11031	1234678-HpCDF	67562-39-4	0.304 JB	0.0250	5.79	1
11031	1234789-HpCDF	55673-89-7	0.0554 JB	0.0323	5.79	1
11031	OCDF	39001-02-0	0.705 JB	0.0573	11.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	79	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	55	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-521-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-521-SA5C-SB

**LLI Sample #** SW 6684338  
**LLI Group #** 1315123  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 15:20

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1213 SDG#: PH012-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-521-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-521-SA5C-SB

LLI Sample # SW 6684338  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 15:20

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

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Fairfax VA 22030

H1213 SDG#: PH012-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 16:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401B	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-521-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-521-SA5C-SB

LLI Sample # SW 6684339  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 15:25

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1214 SDG#: PH012-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	11.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-521-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-521-SA5C-SB

LLI Sample # SW 6684339  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 15:25

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1214 SDG#: PH012-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0150	J	0.0150	1.10	1
11031	12378-PeCDD	40321-76-4	0.0192	U	0.0192	5.49	1
11031	123478-HxCDD	39227-28-6	0.0154	U	0.0154	5.49	1
11031	123678-HxCDD	57653-85-7	0.0478	JBQ	0.0160	5.49	1
11031	123789-HxCDD	19408-74-3	0.0664	JBQ	0.0155	5.49	1
11031	1234678-HpCDD	35822-46-9	0.306	JB	0.0258	5.49	1
11031	OCDD	3268-87-9	1.02	JB	0.0329	11.0	1
11031	2378-TCDF	51207-31-9	0.0207	JQ	0.0104	1.10	1
11031	12378-PeCDF	57117-41-6	0.0461	JBQ	0.00972	5.49	1
11031	23478-PeCDF	57117-31-4	0.0568	JB	0.0101	5.49	1
11031	123478-HxCDF	70648-26-9	0.0251	JB	0.0139	5.49	1
11031	123678-HxCDF	57117-44-9	0.0319	JBQ	0.0100	5.49	1
11031	123789-HxCDF	72918-21-9	0.0286	JBQ	0.0110	5.49	1
11031	234678-HxCDF	60851-34-5	0.0272	JBQ	0.00883	5.49	1
11031	1234678-HpCDF	67562-39-4	0.0855	JB	0.0109	5.49	1
11031	1234789-HpCDF	55673-89-7	0.0287	JB	0.0149	5.49	1
11031	OCDF	39001-02-0	0.107	JB	0.0261	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	61	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	53	26 - 152
13C12-123678-HxCDF	68	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	47	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-521-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-521-SA5C-SB

LLI Sample # SW 6684339  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 15:25

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

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Fairfax VA 22030

H1214 SDG#: PH012-14

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-521-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-521-SA5C-SB

LLI Sample # SW 6684339  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 15:25

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

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Fairfax VA 22030

H1214 SDG#: PH012-14

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 17:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401B	06/13/2012 11:34	William C Schwebel	1

**Sample Description:** SL-521-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-521-SA5C-SB

LLI Sample # SW 6684340  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 15:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

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Fairfax VA 22030

H1215 SDG#: PH012-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-521-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-521-SA5C-SB

LLI Sample # SW 6684340  
LLI Group # 1315123  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/11/2012 15:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1215 SDG#: PH012-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0333	J	0.0188	1.11	1
11031	12378-PeCDD	40321-76-4	0.111	J	0.0226	5.55	1
11031	123478-HxCDD	39227-28-6	0.0428	JB	0.0195	5.55	1
11031	123678-HxCDD	57653-85-7	0.0829	JB	0.0209	5.55	1
11031	123789-HxCDD	19408-74-3	0.0775	JB	0.0192	5.55	1
11031	1234678-HpCDD	35822-46-9	0.548	JBQ	0.0244	5.55	1
11031	OCDD	3268-87-9	2.32	JB	0.0375	11.1	1
11031	2378-TCDF	51207-31-9	0.0288	J	0.0137	1.11	1
11031	12378-PeCDF	57117-41-6	0.0823	JB	0.0124	5.55	1
11031	23478-PeCDF	57117-31-4	0.100	JB	0.0117	5.55	1
11031	123478-HxCDF	70648-26-9	0.0717	JB	0.0131	5.55	1
11031	123678-HxCDF	57117-44-9	0.0485	JB	0.0124	5.55	1
11031	123789-HxCDF	72918-21-9	0.0258	JB	0.0143	5.55	1
11031	234678-HxCDF	60851-34-5	0.0422	JBQ	0.0125	5.55	1
11031	1234678-HpCDF	67562-39-4	0.133	JB	0.0163	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0201	JB	0.0181	5.55	1
11031	OCDF	39001-02-0	0.136	JB	0.0293	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	75	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	60	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-521-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-521-SA5C-SB

LLI Sample # SW 6684340  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 15:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1215 SDG#: PH012-15

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-521-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-521-SA5C-SB

LLI Sample # SW 6684340  
LLI Group # 1315123  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/11/2012 15:30

CDM Federal Programs Corp.

Submitted: 06/12/2012 09:25

3201 Jermantown Road

Reported: 06/19/2012 14:30

Suite 400

Fairfax VA 22030

H1215 SDG#: PH012-15

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12166001	06/16/2012 18:32	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12166001	06/15/2012 10:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12165162401B	06/13/2012 11:34	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/19/12 at 02:30 PM

Group Number: 1315123

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12165162401A	Sample number(s): 6684325-6684331								
Moisture CDM					100		80-120		
Moisture CDM					100		80-120		
Moisture Duplicate CDM					100		80-120		
Batch number: 12165162401B	Sample number(s): 6684332-6684340								
Moisture CDM					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12166001	Sample number(s): 6684325-6684340								
2378-TCDD	0.0265 U	0.0265	1.00	ng/kg	99		67-158		
12378-PeCDD	0.0225 U	0.0225	5.00	ng/kg	98		70-142		
123478-HxCDD	0.0295 J	0.0151	5.00	ng/kg	93		70-164		
123678-HxCDD	0.0240 J	0.0167	5.00	ng/kg	90		76-134		
123789-HxCDD	0.0505 J	0.0153	5.00	ng/kg	95		64-162		
1234678-HpCDD	0.307 J	0.0177	5.00	ng/kg	94		70-140		
OCDD	0.484 J	0.0231	10.0	ng/kg	93		78-144		
2378-TCDF	0.0187 U	0.0187	1.00	ng/kg	89		75-158		
12378-PeCDF	0.0491 J	0.0149	5.00	ng/kg	95		80-134		
23478-PeCDF	0.0364 J	0.0140	5.00	ng/kg	86		68-160		
123478-HxCDF	0.0335 J	0.0107	5.00	ng/kg	95		72-134		
123678-HxCDF	0.0351 J	0.00943	5.00	ng/kg	95		84-130		
123789-HxCDF	0.0230 J	0.0118	5.00	ng/kg	95		78-130		
234678-HxCDF	0.0507 J	0.00959	5.00	ng/kg	92		70-156		
1234678-HpCDF	0.0644 J	0.00827	5.00	ng/kg	88		82-122		
1234789-HpCDF	0.0333 J	0.0135	5.00	ng/kg	94		78-138		
OCDF	0.0805 J	0.0242	10.0	ng/kg	96		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12165162401A	Sample number(s): 6684325-6684331 BKG: 6684329								
Moisture CDM						7.7	7.2	7	20
Moisture CDM						7.7	7.2	7	20
Moisture Duplicate CDM						7.7	7.2	7	20

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/19/12 at 02:30 PM

Group Number: 1315123

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
	%REC	%REC	Limits	RPD	MAX	Conc	RPD	Max
Batch number: 12165162401B	Sample number(s): 6684332-6684340 BKG: 6684338							
Moisture CDM					14.2	13.0	9	20
Batch number: 12166001	Sample number(s): 6684325-6684340 UNSPK: 6684329							
2378-TCDD	98	102	67-158	2	25			
12378-PeCDD	98	100	70-142	0	25			
123478-HxCDD	92	93	70-164	0	25			
123678-HxCDD	91	92	76-134	0	25			
123789-HxCDD	98	98	64-162	1	25			
1234678-HpCDD	96	94	70-140	2	25			
OCDD	123	112	78-144	7	25			
2378-TCDF	89	91	75-158	1	25			
12378-PeCDF	96	96	80-134	1	25			
23478-PeCDF	89	89	68-160	2	25			
123478-HxCDF	95	96	72-134	1	25			
123678-HxCDF	96	97	84-130	0	25			
123789-HxCDF	95	96	78-130	1	25			
234678-HxCDF	95	95	70-156	2	25			
1234678-HpCDF	90	90	82-122	1	25			
1234789-HpCDF	94	95	78-138	1	25			
OCDF	97	95	63-170	3	25			

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a. Dioxins/Furans 10-15 day

Batch number: 12166001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6684325	76	74	72	77	74	73
6684326	86	81	81	79	83	81
6684327	74	74	72	79	77	66
6684328	79	76	73	82	80	65
6684329	71	79	70	76	75	65
6684330	75	75	73	77	78	77
6684331	79	77	70	75	77	68
6684332	88	81	75	86	90	77
6684333	86	99	75	79	82	79
6684334	70	76	67	76	79	61
6684335	72	75	68	79	69	64
6684336	84	92	73	84	79	70
6684337	74	102	65	69	76	74
6684338	80	80	76	77	79	78
6684339	79	75	53	68	77	66
6684340	77	73	79	78	79	77
Blank	62	66	63	70	68	60
MS	75	75	73	77	78	77
MSD	79	77	70	75	77	68

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/19/12 at 02:30 PM

Group Number: 1315123

### Surrogate Quality Control

OPR	69	66	63	71	65	60
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6684325	88	60	52	81	80	79
6684326	76	72	65	83	84	84
6684327	91	58	50	79	85	81
6684328	97	56	47	83	86	87
6684329	86	55	46	84	80	78
6684330	86	61	53	80	83	83
6684331	84	58	51	81	80	81
6684332	93	63	56	85	92	90
6684333	77	72	68	101	86	85
6684334	92	53	46	84	85	83
6684335	99	48	38	81	77	75
6684336	100	55	46	89	82	80
6684337	68	65	51	106	75	73
6684338	79	68	55	82	80	78
6684339	73	58	47	77	79	78
6684340	75	72	60	75	81	80
Blank	86	57	50	72	74	73
MS	86	61	53	80	83	83
MSD	84	58	51	81	80	81
OPR	86	51	43	72	74	75
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6684325	79	75	65	72	81	
6684326	83	79	71	81	80	
6684327	81	75	67	70	78	
6684328	84	78	69	73	85	
6684329	79	71	62	66	85	
6684330	81	77	68	71	80	
6684331	79	75	66	71	82	
6684332	91	82	73	83	86	
6684333	87	79	76	82	99	
6684334	81	73	68	66	86	
6684335	78	71	65	69	86	
6684336	79	73	68	77	101	
6684337	79	69	52	74	103	
6684338	79	76	62	77	78	
6684339	77	72	61	75	81	
6684340	80	76	64	76	74	
Blank	73	74	69	58	70	
MS	81	77	68	71	80	
MSD	79	75	66	71	82	
OPR	76	71	62	62	70	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct #13013 Cup #1315123 Sample # 6684325-40

# SSFL Phase 3 Chain of Custody

CDM Smith  
 Date Shipped: 6/11/2012  
 Carrier Name: FedEx  
 Airbill No: 793667641525

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120611-02  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Quinole 9012	Emeraldics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-SRO 8015	1,4 Dioxane 8250 SIM	VOCs 8280	Pesticides 8081	Herbicides 8151	Hex Cl 7196/7199	pH 9040 (Water)	PH 9045 (Soil)	Perchlorate Confirm 6850/6869	Perchlorate 314.0/331	PCBs/AcTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6020 and 6020	Other Analysis/Notes		
SL-518-SA5C-SB-4.0-5.0	6/11/12 09:24	SD	None	1 - 4 oz glass	10 day																																		
SL-518-SA5C-SB-9.0-10.0	6/11/12 09:28	SD	None	1 - 4 oz glass	10 day																																		
SL-509-SA5C-SB-9.0-10.0	6/11/12 08:38	SD	None	1 - 4 oz glass	10 day																																		
SL-809-SA5C-SB-4.0-5.0	6/11/12 08:30	SD	None	1 - 4 oz glass	10 day																																		
SL-509-SA5C-SB-4.0-5.0MS	6/11/12 08:43	SD	None	1 - 8 oz glass	10 day																																MS/MSD		
SL-574-SA5C-SB-4.0-5.0	6/11/12 11:25	SD	None	1 - 4 oz glass	10 day																																		
SL-574-SA5C-SB-9.0-10.0	6/11/12 11:30	SD	None	1 - 4 oz glass	10 day																																		
SL-508-SA5C-SB-4.0-5.0	6/11/12 10:50	SD	None	1 - 4 oz glass	10 day																																		
SL-508-SA5C-SB-6.5-7.5	6/11/12 10:55	SD	None	1 - 4 oz glass	10 day																																		
SL-507-SA5C-SB-2.5-3.5	6/11/12 13:30	SD	None	1 - 4 oz glass	10 day																																		
SL-520-SA5C-SB-6.5-7.5	6/11/12 14:50	SD	None	1 - 4 oz glass	10 day																																		
SL-521-SA5C-SB-0.0-0.5	6/11/12 15:20	SD	None	1 - 4 oz glass	10 day																																		
SL-521-SA5C-SB-4.0-5.0	6/11/12 15:25	SD	None	1 - 4 oz glass	10 day																																		
SL-521-SA5C-SB-9.0-10.0	6/11/12 15:30	SD	None	1 - 4 oz glass	10 day																																		

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>Stacy Muel</i>	6/11/2012									
									<i>Brent</i>	6/11/12	925

*Brent*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 27, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 06/15/2012  
Group Number: 1316109  
SDG: PT011  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample Description

SL-715-SA5C-SB-6.0-7.0 Soil

Lancaster Labs (LLI) #

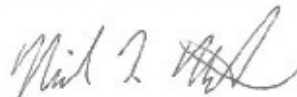
6689366

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
1 COPY TO CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,

Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259



Lancaster  
Laboratories

# ***Analysis Report***

---

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

**Sample Description:** SL-715-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-715-SA5C-SB

LLI Sample # SW 6689366  
LLI Group # 1316109  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 11:20

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/27/2012 06:36

Suite 400

Fairfax VA 22030

SL715 SDG#: PT011-01\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,200	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	6.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121710019A	06/22/2012 17:01	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121710019A	06/20/2012 09:00	Denise L Trimby	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/27/12 at 06:36 AM

Group Number: 1316109

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121710019A 20a Formaldehyde 8315A	Sample number(s): 6689366 1,200 U	1,200.	3,000	ug/kg	96		80-126		
Batch number: 12178162401A Moisture Content by 160.3	Sample number(s): 6689366				100		80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121710019A 20a Formaldehyde 8315A	Sample number(s): 6689366 114	113	80-120	1	50	UNSPK: 6689366			
Batch number: 12178162401A Moisture Content by 160.3	Sample number(s): 6689366					BKG: P695333	12.1	12.1	0

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121710019A  
Butyraldehyde

6689366	92
Blank	121
LCS	120
MS	123
MSD	153*

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

acct #13013 Cp #1316109

Sample # 6689366  
**SSFL Phase 3 Chain of Custody**

CDM Smith

Date Shipped: 6/14/2012

Carrier Name: FedEx

Airbill No: 793683338891

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No:

20120614-01

Cooler #:

Lab:

Lancaster

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Oranotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Emeretics 8330	Nitrates 300.0/9056	Terphenols 8015	Alcohols 8015	Glucols 8015	TPH-FEH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	pH 9045 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8092	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes		
SL-687-SA5C-SB-4.0-5.0	6/12/12 14:10	SO	None	1 - 4 oz glass	10 day																																		
SL-688-SA5C-SB-4.0-5.0	6/12/12 14:50	SO	None	1 - 4 oz glass	10 day																																		
SL-688-SA5C-SB-9.0-10.0	6/12/12 15:00	SO	None	1 - 8 oz glass	10 day																																		
SL-689-SA5C-SB-4.0-5.0	6/12/12 13:25	SO	None	1 - 4 oz glass	10 day																																		
SL-689-SA5C-SB-7.5-8.5	6/12/12 13:45	SO	None	1 - 4 oz glass	10 day																																		
SL-690-SA5C-SB-3.5-4.5	6/12/12 11:25	SO	None	1 - 4 oz glass	10 day																																		
SL-692-SA5C-SB-5.0-6.0	6/12/12 10:15	SO	None	1 - 4 oz glass	10 day																																		
SL-693-SA5C-SB-4.0-5.0	6/12/12 09:25	SO	None	1 - 4 oz glass	10 day																																		
SL-693-SA5C-SB-9.0-10.0	6/12/12 09:35	SO	None	1 - 4 oz glass	10 day																																		
SL-683-SA5C-SB-4.0-5.0	6/13/12 09:31	SO	None	1 - 8 oz glass	10 day																																		
SL-683-SA5C-SB-7.0-8.0	6/13/12 09:45	SO	None	1 - 8 oz glass	10 day																																		
SL-684-SA5C-SB-2.5-3.5	6/13/12 08:18	SO	None	1 - 4 oz glass	10 day																																		
SL-685-SA5C-SB-4.0-5.0	6/13/12 09:00	SO	None	1 - 4 oz glass	10 day																																		
SL-685-SA5C-SB-7.0-8.0	6/13/12 08:48	SO	None	1 - 8 oz glass	10 day																																		
SL-717-SA5C-SB-6.0-7.0	6/13/12 14:45	SO	None	1 - 8 oz glass	10 day																																		
SL-718-SA5C-SB-4.0-5.0	6/13/12 13:08	SO	None	1 - 8 oz glass	10 day																																		
SL-718-SA5C-SB-8.0-9.0	6/13/12 13:10	SO	None	1 - 8 oz glass	10 day																																		
SL-720-SA5C-SB-4.5-5.5	6/13/12 12:37	SO	None	1 - 8 oz glass	10 day																																		
SL-722-SA5C-SB-6.0-7.0	6/13/12 14:18	SO	None	1 - 8 oz glass	10 day																																		
EB-061412	6/14/12 14:30	WQ	None	3 - 1 L Amber	10 day																																		
SL-716-SA5C-SB-5.5-6.5	6/13/12 15:24	SO	None	1 - 8 oz glass	10 day																																		
SL-715-SA5C-SB-6.0-7.0	6/14/12 11:20	SO	None	1 - 8 oz glass	10 day																																		
SL-719-SA5C-SB-6.0-7.0	6/14/12 12:00	SO	None	1 - 4 oz glass	10 day																																		
SL-711-SA5C-SB-9.0-10.0	6/14/12 08:46	SO	None	1 - 4 oz glass	10 day																																		
SL-711-SA5C-SB-4.0-5.0	6/14/12 08:55	SO	None	1 - 4 oz glass	10 day																																		
SL-712-SA5C-SB-4.0-5.0	6/14/12 09:50	SO	None	1 - 4 oz glass	10 day																																		
SL-712-SA5C-SB-9.0-10.0	6/14/12 09:44	SO	None	1 - 4 oz glass	10 day																																		
SL-713-SA5C-SB-6.0-7.0	6/14/12 10:40	SO	None	1 - 4 oz glass	10 day																																		

kan 6/15/12 OASO

acct# 13013 Cp# 1316109

sample# 6689366  
**SSFL Phase 3 Chain of Custody**

CDM Smith  
 Date Shipped: 6/14/2012  
 Carrier Name: FedEx  
 Airbill No: 793683338891

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120614-01  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Other Analysis/Notes
						Methyl Mercury 1630 Orphenothin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EFH 8015 TPH-GRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 pH 9040 (Water) pH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCIS 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020

Special Instructions: **SAMPLES TRANSFERRED FROM**  
**CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	Slip/Map	6/14/2012									
									K	6/15/12	CPSS

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 26, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 06/15/2012  
Group Number: 1316111  
SDG: PH013  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

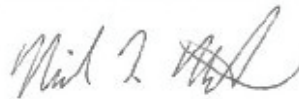
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-687-SA5C-SB-4.0-5.0 Soil	6689368
SL-688-SA5C-SB-4.0-5.0 Soil	6689369
SL-688-SA5C-SB-9.0-10.0 Soil	6689370
SL-689-SA5C-SB-4.0-5.0 Soil	6689371
SL-689-SA5C-SB-7.5-8.5 Soil	6689372
SL-690-SA5C-SB-3.5-4.5 Soil	6689373
SL-692-SA5C-SB-5.0-6.0 Soil	6689374
SL-693-SA5C-SB-4.0-5.0 Soil	6689375
SL-693-SA5C-SB-9.0-10.0 Soil	6689376
SL-683-SA5C-SB-4.0-5.0 Soil	6689377
SL-683-SA5C-SB-7.0-8.0 Soil	6689378
SL-684-SA5C-SB-2.5-3.5 Soil	6689379
SL-685-SA5C-SB-4.0-5.0 Soil	6689380
SL-685-SA5C-SB-7.0-8.0 Soil	6689381
SL-717-SA5C-SB-6.0-7.0 Soil	6689382
SL-718-SA5C-SB-4.0-5.0 Soil	6689383
SL-718-SA5C-SB-8.0-9.0 Soil	6689384
SL-720-SA5C-SB-4.5-5.5 Soil	6689385
SL-722-SA5C-SB-6.0-7.0 Soil	6689386
EB-061412 Water	6689387
SL-716-SA5C-SB-5.5-6.5 Soil	6689388

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
ELECTRONIC COPY TO  
CDM Federal Services Program  
Data Package Group

Attn: Todd Burgesser

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-687-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-687-SA5C-SB

LLI Sample # SW 6689368  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 14:10

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1301 SDG#: PH013-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-687-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-687-SA5C-SB

LLI Sample # SW 6689368  
LLI Group # 1316111  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/12/2012 14:10

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

Suite 400  
Fairfax VA 22030

H1301 SDG#: PH013-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0458 JBQ	0.0244	1.03	1
11031	12378-PeCDD	40321-76-4	0.284 JBQ	0.0348	5.15	1
11031	123478-HxCDD	39227-28-6	0.345 JBQ	0.0506	5.15	1
11031	123678-HxCDD	57653-85-7	1.23 JB	0.0514	5.15	1
11031	123789-HxCDD	19408-74-3	0.672 JB	0.0498	5.15	1
11031	1234678-HpCDD	35822-46-9	32.5 B	0.0731	5.15	1
11031	OCDD	3268-87-9	344 B	0.0334	10.3	1
11031	2378-TCDF	51207-31-9	0.0845 J	0.0337	1.03	1
11031	12378-PeCDF	57117-41-6	0.341 JB	0.0265	5.15	1
11031	23478-PeCDF	57117-31-4	0.179 JB	0.0226	5.15	1
11031	123478-HxCDF	70648-26-9	0.335 JB	0.0328	5.15	1
11031	123678-HxCDF	57117-44-9	0.325 JB	0.0299	5.15	1
11031	123789-HxCDF	72918-21-9	0.182 JB	0.0347	5.15	1
11031	234678-HxCDF	60851-34-5	0.352 JB	0.0311	5.15	1
11031	1234678-HpCDF	67562-39-4	4.86 JB	0.0367	5.15	1
11031	1234789-HpCDF	55673-89-7	0.456 JB	0.0439	5.15	1
11031	OCDF	39001-02-0	14.8 B	0.0230	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	78	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-687-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-687-SA5C-SB

LLI Sample # SW 6689368  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 14:10

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1301 SDG#: PH013-01

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-687-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-687-SA5C-SB

LLI Sample # SW 6689368  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 14:10

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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H1301 SDG#: PH013-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/20/2012 20:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401A	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-688-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-688-SA5C-SB

LLI Sample # SW 6689369  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 14:50

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1302 SDG#: PH013-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-688-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-688-SA5C-SB

LLI Sample # SW 6689369  
LLI Group # 1316111  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/12/2012 14:50

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1302 SDG#: PH013-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0313 JB	0.0233	1.07	1
11031	12378-PeCDD	40321-76-4	0.0758 JB	0.0266	5.35	1
11031	123478-HxCDD	39227-28-6	0.0811 JB	0.0329	5.35	1
11031	123678-HxCDD	57653-85-7	0.248 JB	0.0329	5.35	1
11031	123789-HxCDD	19408-74-3	0.271 JB	0.0315	5.35	1
11031	1234678-HpCDD	35822-46-9	2.86 JB	0.0361	5.35	1
11031	OCDD	3268-87-9	40.5 B	0.0337	10.7	1
11031	2378-TCDF	51207-31-9	0.0244 U	0.0244	1.07	1
11031	12378-PeCDF	57117-41-6	0.0923 JB	0.0205	5.35	1
11031	23478-PeCDF	57117-31-4	0.0702 JB	0.0189	5.35	1
11031	123478-HxCDF	70648-26-9	0.108 JB	0.0228	5.35	1
11031	123678-HxCDF	57117-44-9	0.0798 JBQ	0.0229	5.35	1
11031	123789-HxCDF	72918-21-9	0.158 JB	0.0215	5.35	1
11031	234678-HxCDF	60851-34-5	0.0496 JB	0.0217	5.35	1
11031	1234678-HpCDF	67562-39-4	0.499 JB	0.0196	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0566 JBQ	0.0247	5.35	1
11031	OCDF	39001-02-0	0.923 JB	0.0354	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	92	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	93	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	68	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-688-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-688-SA5C-SB

LLI Sample # SW 6689369  
 LLI Group # 1316111  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 14:50

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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H1302 SDG#: PH013-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-688-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-688-SA5C-SB

LLI Sample # SW 6689369  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 14:50

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1302 SDG#: PH013-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/20/2012 21:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401A	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-688-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-688-SA5C-SB

LLI Sample # SW 6689370  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1303 SDG#: PH013-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-688-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-688-SA5C-SB

LLI Sample # SW 6689370  
LLI Group # 1316111  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/12/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1303 SDG#: PH013-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0303 JB	0.0255	1.09	1
11031	12378-PeCDD	40321-76-4	0.0215 U	0.0215	5.46	1
11031	123478-HxCDD	39227-28-6	0.0267 JB	0.0180	5.46	1
11031	123678-HxCDD	57653-85-7	0.0541 JBQ	0.0193	5.46	1
11031	123789-HxCDD	19408-74-3	0.0440 JB	0.0185	5.46	1
11031	1234678-HpCDD	35822-46-9	0.291 JB	0.0272	5.46	1
11031	OCDD	3268-87-9	0.799 JB	0.0347	10.9	1
11031	2378-TCDF	51207-31-9	0.0206 U	0.0206	1.09	1
11031	12378-PeCDF	57117-41-6	0.0248 JBQ	0.0168	5.46	1
11031	23478-PeCDF	57117-31-4	0.0532 JB	0.0161	5.46	1
11031	123478-HxCDF	70648-26-9	0.0192 JB	0.0121	5.46	1
11031	123678-HxCDF	57117-44-9	0.0271 JBQ	0.0121	5.46	1
11031	123789-HxCDF	72918-21-9	0.0335 JB	0.0124	5.46	1
11031	234678-HxCDF	60851-34-5	0.0302 JBQ	0.0115	5.46	1
11031	1234678-HpCDF	67562-39-4	0.0671 JB	0.0120	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0312 JBQ	0.0165	5.46	1
11031	OCDF	39001-02-0	0.108 JB	0.0218	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	71	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-688-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-688-SA5C-SB

LLI Sample # SW 6689370  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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H1303 SDG#: PH013-03

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-688-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-688-SA5C-SB

LLI Sample # SW 6689370  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1303 SDG#: PH013-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/20/2012 22:48	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401A	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-689-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-689-SA5C-SB

LLI Sample # SW 6689371  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 13:25

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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H1304 SDG#: PH013-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-689-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-689-SA5C-SB

LLI Sample # SW 6689371  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 13:25

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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H1304 SDG#: PH013-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0215	U	0.0215	1.09	1
11031	12378-PeCDD	40321-76-4	0.102	JBQ	0.0299	5.45	1
11031	123478-HxCDD	39227-28-6	0.171	JB	0.0447	5.45	1
11031	123678-HxCDD	57653-85-7	0.620	JB	0.0478	5.45	1
11031	123789-HxCDD	19408-74-3	0.522	JB	0.0461	5.45	1
11031	1234678-HpCDD	35822-46-9	15.7	B	0.0563	5.45	1
11031	OCDD	3268-87-9	213	B	0.0320	10.9	1
11031	2378-TCDF	51207-31-9	0.0351	J	0.0257	1.09	1
11031	12378-PeCDF	57117-41-6	0.172	JB	0.0220	5.45	1
11031	23478-PeCDF	57117-31-4	0.100	JB	0.0204	5.45	1
11031	123478-HxCDF	70648-26-9	0.147	JB	0.0268	5.45	1
11031	123678-HxCDF	57117-44-9	0.116	JB	0.0268	5.45	1
11031	123789-HxCDF	72918-21-9	0.143	JB	0.0252	5.45	1
11031	234678-HxCDF	60851-34-5	0.173	JBQ	0.0259	5.45	1
11031	1234678-HpCDF	67562-39-4	1.83	JB	0.0255	5.45	1
11031	1234789-HpCDF	55673-89-7	0.146	JB	0.0305	5.45	1
11031	OCDF	39001-02-0	5.29	JB	0.0268	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	87	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	72	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-689-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-689-SA5C-SB

LLI Sample # SW 6689371  
 LLI Group # 1316111  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 13:25

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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H1304 SDG#: PH013-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-689-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-689-SA5C-SB

LLI Sample # SW 6689371  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 13:25

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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H1304 SDG#: PH013-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/20/2012 23:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401A	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-689-SA5C-SB-7.5-8.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-689-SA5C-SB

LLI Sample # SW 6689372  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 13:45

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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H1305 SDG#: PH013-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-689-SA5C-SB-7.5-8.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-689-SA5C-SB

LLI Sample # SW 6689372  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 13:45

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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H1305 SDG#: PH013-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0300 U	0.0300	1.05	1
11031	12378-PeCDD	40321-76-4	0.0359 JB	0.0217	5.24	1
11031	123478-HxCDD	39227-28-6	0.0170 U	0.0170	5.24	1
11031	123678-HxCDD	57653-85-7	0.0457 JBQ	0.0185	5.24	1
11031	123789-HxCDD	19408-74-3	0.0416 JB	0.0172	5.24	1
11031	1234678-HpCDD	35822-46-9	0.367 JB	0.0280	5.24	1
11031	OCDD	3268-87-9	1.24 JB	0.0246	10.5	1
11031	2378-TCDF	51207-31-9	0.0199 U	0.0199	1.05	1
11031	12378-PeCDF	57117-41-6	0.0211 JB	0.0156	5.24	1
11031	23478-PeCDF	57117-31-4	0.0717 JB	0.0150	5.24	1
11031	123478-HxCDF	70648-26-9	0.0435 JBQ	0.0123	5.24	1
11031	123678-HxCDF	57117-44-9	0.0264 JBQ	0.0116	5.24	1
11031	123789-HxCDF	72918-21-9	0.0185 JB	0.0126	5.24	1
11031	234678-HxCDF	60851-34-5	0.0337 JB	0.0113	5.24	1
11031	1234678-HpCDF	67562-39-4	0.0902 JB	0.00934	5.24	1
11031	1234789-HpCDF	55673-89-7	0.0409 JBQ	0.0131	5.24	1
11031	OCDF	39001-02-0	0.0994 JB	0.0228	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	78	24 - 185
13C12-23478-PeCDF	73	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	59	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-689-SA5C-SB-7.5-8.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-689-SA5C-SB

LLI Sample # SW 6689372  
 LLI Group # 1316111  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 13:45

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1305 SDG#: PH013-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-689-SA5C-SB-7.5-8.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-689-SA5C-SB

LLI Sample # SW 6689372  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 13:45

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1305 SDG#: PH013-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 00:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401A	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-690-SA5C-SB-3.5-4.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-690-SA5C-SB

LLI Sample # SW 6689373  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 11:25

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1306 SDG#: PH013-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-690-SA5C-SB-3.5-4.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-690-SA5C-SB

LLI Sample # SW 6689373  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 11:25

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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H1306 SDG#: PH013-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0277 U	0.0277	1.06	1
11031	12378-PeCDD	40321-76-4	0.0234 JBQ	0.0216	5.30	1
11031	123478-HxCDD	39227-28-6	0.0294 JB	0.0258	5.30	1
11031	123678-HxCDD	57653-85-7	0.355 JB	0.0264	5.30	1
11031	123789-HxCDD	19408-74-3	0.351 JB	0.0264	5.30	1
11031	1234678-HpCDD	35822-46-9	1.37 JB	0.0311	5.30	1
11031	OCDD	3268-87-9	10.7 B	0.0319	10.6	1
11031	2378-TCDF	51207-31-9	0.0214 U	0.0214	1.06	1
11031	12378-PeCDF	57117-41-6	0.0284 JBQ	0.0167	5.30	1
11031	23478-PeCDF	57117-31-4	0.0623 JB	0.0157	5.30	1
11031	123478-HxCDF	70648-26-9	0.0468 JBQ	0.0156	5.30	1
11031	123678-HxCDF	57117-44-9	0.138 JB	0.0141	5.30	1
11031	123789-HxCDF	72918-21-9	0.0375 JB	0.0172	5.30	1
11031	234678-HxCDF	60851-34-5	0.0330 JB	0.0139	5.30	1
11031	1234678-HpCDF	67562-39-4	0.212 JB	0.0141	5.30	1
11031	1234789-HpCDF	55673-89-7	0.0492 JB	0.0203	5.30	1
11031	OCDF	39001-02-0	0.396 JB	0.0230	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	77	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	69	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	62	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-690-SA5C-SB-3.5-4.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-690-SA5C-SB

LLI Sample # SW 6689373  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 11:25

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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H1306 SDG#: PH013-06

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-690-SA5C-SB-3.5-4.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-690-SA5C-SB

LLI Sample # SW 6689373  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 11:25

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1306 SDG#: PH013-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 01:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401A	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-692-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-692-SA5C-SB

LLI Sample # SW 6689374  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 10:15

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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Fairfax VA 22030

H13-7 SDG#: PH013-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-692-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-692-SA5C-SB

LLI Sample # SW 6689374  
LLI Group # 1316111  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/12/2012 10:15

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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H13-7 SDG#: PH013-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0275 JB	0.0232	1.06	1
11031	12378-PeCDD	40321-76-4	0.0727 JB	0.0216	5.28	1
11031	123478-HxCDD	39227-28-6	0.0216 U	0.0216	5.28	1
11031	123678-HxCDD	57653-85-7	0.188 JBQ	0.0225	5.28	1
11031	123789-HxCDD	19408-74-3	0.183 JBQ	0.0212	5.28	1
11031	1234678-HpCDD	35822-46-9	0.668 JB	0.0341	5.28	1
11031	OCDD	3268-87-9	4.20 JB	0.0263	10.6	1
11031	2378-TCDF	51207-31-9	0.0194 J	0.0182	1.06	1
11031	12378-PeCDF	57117-41-6	0.0497 JBQ	0.0147	5.28	1
11031	23478-PeCDF	57117-31-4	0.0572 JBQ	0.0148	5.28	1
11031	123478-HxCDF	70648-26-9	0.0447 JB	0.0136	5.28	1
11031	123678-HxCDF	57117-44-9	0.115 JB	0.0125	5.28	1
11031	123789-HxCDF	72918-21-9	0.0137 U	0.0137	5.28	1
11031	234678-HxCDF	60851-34-5	0.0288 JBQ	0.0125	5.28	1
11031	1234678-HpCDF	67562-39-4	0.106 JB	0.00971	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0181 JBQ	0.0165	5.28	1
11031	OCDF	39001-02-0	0.162 JB	0.0230	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	54	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-692-SA5C-SB-5.0-6.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-692-SA5C-SB

**LLI Sample #** SW 6689374  
**LLI Group #** 1316111  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 10:15

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H13-7 SDG#: PH013-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-692-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-692-SA5C-SB

LLI Sample # SW 6689374  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 10:15

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H13-7 SDG#: PH013-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 02:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401A	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-693-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-693-SA5C-SB

LLI Sample # SW 6689375  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 09:25

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1308 SDG#: PH013-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-693-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-693-SA5C-SB

LLI Sample # SW 6689375  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 09:25

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1308 SDG#: PH013-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0672 JB	0.0222	1.11	1
11031	12378-PeCDD	40321-76-4	0.215 JB	0.0257	5.54	1
11031	123478-HxCDD	39227-28-6	0.115 JB	0.0327	5.54	1
11031	123678-HxCDD	57653-85-7	0.327 JB	0.0341	5.54	1
11031	123789-HxCDD	19408-74-3	0.422 JB	0.0323	5.54	1
11031	1234678-HpCDD	35822-46-9	4.41 JB	0.0374	5.54	1
11031	OCDD	3268-87-9	49.2 B	0.0295	11.1	1
11031	2378-TCDF	51207-31-9	0.0703 J	0.0260	1.11	1
11031	12378-PeCDF	57117-41-6	0.417 JB	0.0211	5.54	1
11031	23478-PeCDF	57117-31-4	0.166 JB	0.0212	5.54	1
11031	123478-HxCDF	70648-26-9	0.211 JBQ	0.0285	5.54	1
11031	123678-HxCDF	57117-44-9	0.159 JBQ	0.0239	5.54	1
11031	123789-HxCDF	72918-21-9	0.408 JB	0.0289	5.54	1
11031	234678-HxCDF	60851-34-5	0.124 JB	0.0232	5.54	1
11031	1234678-HpCDF	67562-39-4	0.695 JB	0.0130	5.54	1
11031	1234789-HpCDF	55673-89-7	0.137 JB	0.0220	5.54	1
11031	OCDF	39001-02-0	1.31 JB	0.0275	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	94	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	100	32 - 141
13C12-123678-HxCDD	99	28 - 130
13C12-123789-HxCDD	98	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	81	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	97	26 - 123
13C12-234678-HxCDF	99	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	114	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	65	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-693-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-693-SA5C-SB

LLI Sample # SW 6689375  
 LLI Group # 1316111  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 09:25

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1308 SDG#: PH013-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-693-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-693-SA5C-SB

LLI Sample # SW 6689375  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 09:25

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1308 SDG#: PH013-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 03:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401A	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-693-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-693-SA5C-SB

LLI Sample # SW 6689376  
 LLI Group # 1316111  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 09:35

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1309 SDG#: PH013-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-693-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-693-SA5C-SB

LLI Sample # SW 6689376  
LLI Group # 1316111  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/12/2012 09:35

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1309 SDG#: PH013-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>		
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>		
11031	2378-TCDD	1746-01-6	0.118	JB	0.0263	1.07	1
11031	12378-PeCDD	40321-76-4	0.250	JB	0.0279	5.34	1
11031	123478-HxCDD	39227-28-6	0.110	JB	0.0362	5.34	1
11031	123678-HxCDD	57653-85-7	0.395	JB	0.0383	5.34	1
11031	123789-HxCDD	19408-74-3	0.337	JB	0.0343	5.34	1
11031	1234678-HpCDD	35822-46-9	6.41	B	0.0401	5.34	1
11031	OCDD	3268-87-9	77.2	B	0.0219	10.7	1
11031	2378-TCDF	51207-31-9	0.0811	J	0.0281	1.07	1
11031	12378-PeCDF	57117-41-6	0.384	JB	0.0228	5.34	1
11031	23478-PeCDF	57117-31-4	0.259	JB	0.0220	5.34	1
11031	123478-HxCDF	70648-26-9	0.226	JB	0.0310	5.34	1
11031	123678-HxCDF	57117-44-9	0.208	JB	0.0282	5.34	1
11031	123789-HxCDF	72918-21-9	0.191	JBQ	0.0296	5.34	1
11031	234678-HxCDF	60851-34-5	0.143	JB	0.0269	5.34	1
11031	1234678-HpCDF	67562-39-4	0.731	JB	0.0154	5.34	1
11031	1234789-HpCDF	55673-89-7	0.123	JB	0.0230	5.34	1
11031	OCDF	39001-02-0	1.79	JB	0.0219	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	91	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	72	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-693-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-693-SA5C-SB

LLI Sample # SW 6689376  
 LLI Group # 1316111  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 09:35

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1309 SDG#: PH013-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-693-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-693-SA5C-SB

LLI Sample # SW 6689376  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/12/2012 09:35

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1309 SDG#: PH013-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 07:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401A	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-683-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-683-SA5C-SB

LLI Sample # SW 6689377  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 09:31

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1310 SDG#: PH013-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	6.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-683-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-683-SA5C-SB

LLI Sample # SW 6689377  
LLI Group # 1316111  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/13/2012 09:31

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1310 SDG#: PH013-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0226 U	0.0226	1.05	1
11031	12378-PeCDD	40321-76-4	0.0771 JB	0.0217	5.25	1
11031	123478-HxCDD	39227-28-6	0.100 JBQ	0.0303	5.25	1
11031	123678-HxCDD	57653-85-7	0.224 JB	0.0314	5.25	1
11031	123789-HxCDD	19408-74-3	0.157 JB	0.0296	5.25	1
11031	1234678-HpCDD	35822-46-9	4.01 JB	0.0360	5.25	1
11031	OCDD	3268-87-9	32.3 B	0.0302	10.5	1
11031	2378-TCDF	51207-31-9	0.0272 U	0.0272	1.05	1
11031	12378-PeCDF	57117-41-6	0.145 JB	0.0183	5.25	1
11031	23478-PeCDF	57117-31-4	0.0973 JB	0.0179	5.25	1
11031	123478-HxCDF	70648-26-9	0.233 JB	0.0251	5.25	1
11031	123678-HxCDF	57117-44-9	0.0940 JB	0.0220	5.25	1
11031	123789-HxCDF	72918-21-9	0.0471 JB	0.0272	5.25	1
11031	234678-HxCDF	60851-34-5	0.107 JBQ	0.0219	5.25	1
11031	1234678-HpCDF	67562-39-4	1.14 JB	0.0122	5.25	1
11031	1234789-HpCDF	55673-89-7	0.107 JB	0.0232	5.25	1
11031	OCDF	39001-02-0	1.73 JB	0.0301	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	89	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	85	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	47	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-683-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-683-SA5C-SB

**LLI Sample #** SW 6689377  
**LLI Group #** 1316111  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 09:31

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1310 SDG#: PH013-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-683-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-683-SA5C-SB

LLI Sample # SW 6689377  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 09:31

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1310 SDG#: PH013-10

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 08:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401A	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-683-SA5C-SB-7.0-8.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-683-SA5C-SB

LLI Sample # SW 6689378  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 09:45

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1311 SDG#: PH013-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-683-SA5C-SB-7.0-8.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-683-SA5C-SB

LLI Sample # SW 6689378  
LLI Group # 1316111  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/13/2012 09:45

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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H1311 SDG#: PH013-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>						
11031	2378-TCDD	1746-01-6	0.0290 JBQ	0.0263	1.12	1
11031	12378-PeCDD	40321-76-4	0.0609 JBQ	0.0293	5.61	1
11031	123478-HxCDD	39227-28-6	0.0986 JB	0.0363	5.61	1
11031	123678-HxCDD	57653-85-7	0.179 JB	0.0353	5.61	1
11031	123789-HxCDD	19408-74-3	0.112 JBQ	0.0335	5.61	1
11031	1234678-HpCDD	35822-46-9	2.45 JB	0.0311	5.61	1
11031	OCDD	3268-87-9	20.0 B	0.0426	11.2	1
11031	2378-TCDF	51207-31-9	0.0367 J	0.0284	1.12	1
11031	12378-PeCDF	57117-41-6	0.125 JB	0.0210	5.61	1
11031	23478-PeCDF	57117-31-4	0.0814 JBQ	0.0204	5.61	1
11031	123478-HxCDF	70648-26-9	0.282 JB	0.0272	5.61	1
11031	123678-HxCDF	57117-44-9	0.0783 JB	0.0246	5.61	1
11031	123789-HxCDF	72918-21-9	0.0613 JB	0.0286	5.61	1
11031	234678-HxCDF	60851-34-5	0.0672 JB	0.0259	5.61	1
11031	1234678-HpCDF	67562-39-4	0.511 JB	0.0140	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0694 JB	0.0244	5.61	1
11031	OCDF	39001-02-0	0.804 JB	0.0321	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	85	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	56	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-683-SA5C-SB-7.0-8.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-683-SA5C-SB

LLI Sample # SW 6689378  
 LLI Group # 1316111  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 09:45

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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H1311 SDG#: PH013-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-683-SA5C-SB-7.0-8.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-683-SA5C-SB

LLI Sample # SW 6689378  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 09:45

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1311 SDG#: PH013-11

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 09:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401B	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-684-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-684-SA5C-SB

LLI Sample # SW 6689379  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 08:18

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1312 SDG#: PH013-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	6.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-684-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-684-SA5C-SB

LLI Sample # SW 6689379  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 08:18

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1312 SDG#: PH013-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0408	U	0.0408	1.06	1
11031	12378-PeCDD	40321-76-4	0.0877	JB	0.0382	5.28	1
11031	123478-HxCDD	39227-28-6	0.105	JB	0.0295	5.28	1
11031	123678-HxCDD	57653-85-7	0.178	JBQ	0.0312	5.28	1
11031	123789-HxCDD	19408-74-3	0.199	JBQ	0.0291	5.28	1
11031	1234678-HpCDD	35822-46-9	2.37	JB	0.0360	5.28	1
11031	OCDD	3268-87-9	22.2	B	0.0347	10.6	1
11031	2378-TCDF	51207-31-9	0.0436	U	0.0436	1.06	1
11031	12378-PeCDF	57117-41-6	0.210	JB	0.0310	5.28	1
11031	23478-PeCDF	57117-31-4	0.0858	JB	0.0293	5.28	1
11031	123478-HxCDF	70648-26-9	0.125	JB	0.0256	5.28	1
11031	123678-HxCDF	57117-44-9	0.0886	JBQ	0.0225	5.28	1
11031	123789-HxCDF	72918-21-9	0.115	JBQ	0.0281	5.28	1
11031	234678-HxCDF	60851-34-5	0.0853	JB	0.0222	5.28	1
11031	1234678-HpCDF	67562-39-4	0.579	JB	0.0191	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0667	JBQ	0.0311	5.28	1
11031	OCDF	39001-02-0	1.12	JB	0.0323	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	58	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	64	32 - 141
13C12-123678-HxCDD	63	28 - 130
13C12-123789-HxCDD	63	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	63	24 - 185
13C12-23478-PeCDF	62	21 - 178
13C12-123478-HxCDF	58	26 - 152
13C12-123678-HxCDF	63	26 - 123
13C12-234678-HxCDF	62	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	52	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-684-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-684-SA5C-SB

LLI Sample # SW 6689379  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 08:18

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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H1312 SDG#: PH013-12

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-684-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-684-SA5C-SB

LLI Sample # SW 6689379  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 08:18

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1312 SDG#: PH013-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 10:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401B	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-685-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-685-SA5C-SB

LLI Sample # SW 6689380  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 09:00

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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H1313 SDG#: PH013-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	1.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-685-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-685-SA5C-SB

LLI Sample # SW 6689380  
LLI Group # 1316111  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/13/2012 09:00

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Submitted: 06/15/2012 09:50

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H1313 SDG#: PH013-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0473 JBQ	0.0219	0.994	1
11031	12378-PeCDD	40321-76-4	0.177 JB	0.0297	4.97	1
11031	123478-HxCDD	39227-28-6	0.728 JB	0.0534	4.97	1
11031	123678-HxCDD	57653-85-7	1.67 JB	0.0543	4.97	1
11031	123789-HxCDD	19408-74-3	0.977 JB	0.0538	4.97	1
11031	1234678-HpCDD	35822-46-9	31.5 B	0.0608	4.97	1
11031	OCDD	3268-87-9	250 B	0.0329	9.94	1
11031	2378-TCDF	51207-31-9	0.108 JQ	0.0483	0.994	1
11031	12378-PeCDF	57117-41-6	0.495 JB	0.0341	4.97	1
11031	23478-PeCDF	57117-31-4	0.280 JB	0.0334	4.97	1
11031	123478-HxCDF	70648-26-9	0.549 JB	0.0380	4.97	1
11031	123678-HxCDF	57117-44-9	0.496 JB	0.0359	4.97	1
11031	123789-HxCDF	72918-21-9	0.300 JB	0.0364	4.97	1
11031	234678-HxCDF	60851-34-5	0.607 JB	0.0334	4.97	1
11031	1234678-HpCDF	67562-39-4	12.4 B	0.0252	4.97	1
11031	1234789-HpCDF	55673-89-7	0.545 JB	0.0351	4.97	1
11031	OCDF	39001-02-0	16.4 B	0.0232	9.94	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	80	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	69	26 - 138
13C12-OCDF	63	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-685-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-685-SA5C-SB

LLI Sample # SW 6689380  
 LLI Group # 1316111  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 09:00

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1313 SDG#: PH013-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-685-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-685-SA5C-SB

LLI Sample # SW 6689380  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 09:00

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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H1313 SDG#: PH013-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 11:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401B	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-685-SA5C-SB-7.0-8.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-685-SA5C-SB

LLI Sample # SW 6689381  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 08:48

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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Fairfax VA 22030

1314- SDG#: PH013-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	10.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-685-SA5C-SB-7.0-8.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-685-SA5C-SB

LLI Sample # SW 6689381  
LLI Group # 1316111  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/13/2012 08:48

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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Fairfax VA 22030

1314- SDG#: PH013-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0252 U	0.0252	1.09	1
11031	12378-PeCDD	40321-76-4	0.0234 U	0.0234	5.46	1
11031	123478-HxCDD	39227-28-6	0.0198 U	0.0198	5.46	1
11031	123678-HxCDD	57653-85-7	0.0751 JB	0.0203	5.46	1
11031	123789-HxCDD	19408-74-3	0.0487 JBQ	0.0191	5.46	1
11031	1234678-HpCDD	35822-46-9	0.244 JB	0.0214	5.46	1
11031	OCDD	3268-87-9	0.616 JB	0.0311	10.9	1
11031	2378-TCDF	51207-31-9	0.0229 JQ	0.0186	1.09	1
11031	12378-PeCDF	57117-41-6	0.0241 JBQ	0.0151	5.46	1
11031	23478-PeCDF	57117-31-4	0.0508 JBQ	0.0152	5.46	1
11031	123478-HxCDF	70648-26-9	0.0218 JBQ	0.0122	5.46	1
11031	123678-HxCDF	57117-44-9	0.0452 JBQ	0.0108	5.46	1
11031	123789-HxCDF	72918-21-9	0.0122 U	0.0122	5.46	1
11031	234678-HxCDF	60851-34-5	0.0346 JB	0.00989	5.46	1
11031	1234678-HpCDF	67562-39-4	0.0661 JB	0.00746	5.46	1
11031	1234789-HpCDF	55673-89-7	0.0421 JB	0.0129	5.46	1
11031	OCDF	39001-02-0	0.109 JB	0.0240	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	56	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-685-SA5C-SB-7.0-8.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-685-SA5C-SB

LLI Sample # SW 6689381  
 LLI Group # 1316111  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 08:48

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

1314- SDG#: PH013-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-685-SA5C-SB-7.0-8.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-685-SA5C-SB

LLI Sample # SW 6689381  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 08:48

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

1314- SDG#: PH013-14

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 12:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401B	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-717-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-717-SA5C-SB

LLI Sample # SW 6689382  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 14:45

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1315 SDG#: PH013-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-717-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-717-SA5C-SB

LLI Sample # SW 6689382  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 14:45

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1315 SDG#: PH013-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0233 U	0.0233	1.07	1
11031	12378-PeCDD	40321-76-4	0.0429 JB	0.0229	5.33	1
11031	123478-HxCDD	39227-28-6	0.0180 U	0.0180	5.33	1
11031	123678-HxCDD	57653-85-7	0.0448 JB	0.0189	5.33	1
11031	123789-HxCDD	19408-74-3	0.0233 JBQ	0.0173	5.33	1
11031	1234678-HpCDD	35822-46-9	0.300 JB	0.0222	5.33	1
11031	OCDD	3268-87-9	0.640 JB	0.0321	10.7	1
11031	2378-TCDF	51207-31-9	0.0155 U	0.0155	1.07	1
11031	12378-PeCDF	57117-41-6	0.0269 JBQ	0.0127	5.33	1
11031	23478-PeCDF	57117-31-4	0.0489 JB	0.0122	5.33	1
11031	123478-HxCDF	70648-26-9	0.0300 JB	0.0103	5.33	1
11031	123678-HxCDF	57117-44-9	0.0244 JB	0.00939	5.33	1
11031	123789-HxCDF	72918-21-9	0.0240 JBQ	0.0121	5.33	1
11031	234678-HxCDF	60851-34-5	0.0106 JBQ	0.00979	5.33	1
11031	1234678-HpCDF	67562-39-4	0.0565 JB	0.00688	5.33	1
11031	1234789-HpCDF	55673-89-7	0.0352 JBQ	0.0134	5.33	1
11031	OCDF	39001-02-0	0.103 JB	0.0266	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	73	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	66	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	47	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-717-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-717-SA5C-SB

LLI Sample # SW 6689382  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 14:45

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1315 SDG#: PH013-15

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-717-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-717-SA5C-SB

LLI Sample # SW 6689382  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 14:45

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1315 SDG#: PH013-15

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 13:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401B	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-718-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-718-SA5C-SB

LLI Sample # SW 6689383  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 13:08

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1316 SDG#: PH013-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	3.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-718-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-718-SA5C-SB

LLI Sample # SW 6689383  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 13:08

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

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H1316 SDG#: PH013-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0682 JBQ	0.0286	1.04	1
11031	12378-PeCDD	40321-76-4	0.103 JB	0.0309	5.20	1
11031	123478-HxCDD	39227-28-6	0.0647 JBQ	0.0368	5.20	1
11031	123678-HxCDD	57653-85-7	0.310 JBQ	0.0391	5.20	1
11031	123789-HxCDD	19408-74-3	0.197 JB	0.0348	5.20	1
11031	1234678-HpCDD	35822-46-9	9.29 B	0.0426	5.20	1
11031	OCDD	3268-87-9	88.9 B	0.0332	10.4	1
11031	2378-TCDF	51207-31-9	0.0619 J	0.0455	1.04	1
11031	12378-PeCDF	57117-41-6	0.298 JB	0.0303	5.20	1
11031	23478-PeCDF	57117-31-4	0.163 JB	0.0285	5.20	1
11031	123478-HxCDF	70648-26-9	0.257 JB	0.0289	5.20	1
11031	123678-HxCDF	57117-44-9	0.184 JB	0.0268	5.20	1
11031	123789-HxCDF	72918-21-9	0.0834 JB	0.0302	5.20	1
11031	234678-HxCDF	60851-34-5	0.138 JB	0.0269	5.20	1
11031	1234678-HpCDF	67562-39-4	1.94 JB	0.0159	5.20	1
11031	1234789-HpCDF	55673-89-7	0.217 JBQ	0.0280	5.20	1
11031	OCDF	39001-02-0	7.35 JB	0.0278	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	59	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-718-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-718-SA5C-SB

LLI Sample # SW 6689383  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 13:08

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1316 SDG#: PH013-16

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-718-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-718-SA5C-SB

LLI Sample # SW 6689383  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 13:08

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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H1316 SDG#: PH013-16

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 14:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401B	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-718-SA5C-SB-8.0-9.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-718-SA5C-SB

LLI Sample # SW 6689384  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 13:10

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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H1317 SDG#: PH013-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-718-SA5C-SB-8.0-9.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-718-SA5C-SB

LLI Sample # SW 6689384  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 13:10

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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H1317 SDG#: PH013-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0687 JB	0.0252	1.07	1
11031	12378-PeCDD	40321-76-4	0.176 JB	0.0286	5.34	1
11031	123478-HxCDD	39227-28-6	0.0902 JBQ	0.0289	5.34	1
11031	123678-HxCDD	57653-85-7	0.203 JB	0.0304	5.34	1
11031	123789-HxCDD	19408-74-3	0.165 JB	0.0294	5.34	1
11031	1234678-HpCDD	35822-46-9	4.43 JB	0.0321	5.34	1
11031	OCDD	3268-87-9	40.7 B	0.0313	10.7	1
11031	2378-TCDF	51207-31-9	0.0772 J	0.0292	1.07	1
11031	12378-PeCDF	57117-41-6	0.263 JB	0.0185	5.34	1
11031	23478-PeCDF	57117-31-4	0.212 JBQ	0.0186	5.34	1
11031	123478-HxCDF	70648-26-9	0.207 JBQ	0.0271	5.34	1
11031	123678-HxCDF	57117-44-9	0.149 JB	0.0239	5.34	1
11031	123789-HxCDF	72918-21-9	0.141 JB	0.0267	5.34	1
11031	234678-HxCDF	60851-34-5	0.125 JB	0.0233	5.34	1
11031	1234678-HpCDF	67562-39-4	0.992 JB	0.0110	5.34	1
11031	1234789-HpCDF	55673-89-7	0.109 JB	0.0186	5.34	1
11031	OCDF	39001-02-0	3.07 JB	0.0240	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	97	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	104	32 - 141
13C12-123678-HxCDD	100	28 - 130
13C12-123789-HxCDD	98	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	90	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	90	26 - 152
13C12-123678-HxCDF	98	26 - 123
13C12-234678-HxCDF	99	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	122	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	66	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-718-SA5C-SB-8.0-9.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-718-SA5C-SB

LLI Sample # SW 6689384  
 LLI Group # 1316111  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 13:10

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1317 SDG#: PH013-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-718-SA5C-SB-8.0-9.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-718-SA5C-SB

LLI Sample # SW 6689384  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 13:10

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1317 SDG#: PH013-17

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 15:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401B	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-720-SA5C-SB-4.5-5.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-720-SA5C-SB

LLI Sample # SW 6689385  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 12:37

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1318 SDG#: PH013-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-720-SA5C-SB-4.5-5.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-720-SA5C-SB

LLI Sample # SW 6689385  
LLI Group # 1316111  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/13/2012 12:37

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1318 SDG#: PH013-18

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0268	JB	0.0256	1.09	1
11031	12378-PeCDD	40321-76-4	0.0741	JB	0.0230	5.47	1
11031	123478-HxCDD	39227-28-6	0.0482	JB	0.0271	5.47	1
11031	123678-HxCDD	57653-85-7	0.123	JB	0.0285	5.47	1
11031	123789-HxCDD	19408-74-3	0.130	JBQ	0.0272	5.47	1
11031	1234678-HpCDD	35822-46-9	1.78	JB	0.0262	5.47	1
11031	OCDD	3268-87-9	12.8	B	0.0217	10.9	1
11031	2378-TCDF	51207-31-9	0.147	J	0.0266	1.09	1
11031	12378-PeCDF	57117-41-6	0.180	JB	0.0189	5.47	1
11031	23478-PeCDF	57117-31-4	0.181	JB	0.0191	5.47	1
11031	123478-HxCDF	70648-26-9	0.196	JB	0.0215	5.47	1
11031	123678-HxCDF	57117-44-9	0.109	JB	0.0177	5.47	1
11031	123789-HxCDF	72918-21-9	0.0368	JB	0.0239	5.47	1
11031	234678-HxCDF	60851-34-5	0.0766	JB	0.0187	5.47	1
11031	1234678-HpCDF	67562-39-4	0.453	JB	0.0126	5.47	1
11031	1234789-HpCDF	55673-89-7	0.0754	JB	0.0251	5.47	1
11031	OCDF	39001-02-0	1.28	JB	0.0235	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	91	23 - 140
13C12-OCDD	94	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	82	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	94	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	117	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	62	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-720-SA5C-SB-4.5-5.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-720-SA5C-SB

LLI Sample # SW 6689385  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 12:37

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1318 SDG#: PH013-18

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-720-SA5C-SB-4.5-5.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-720-SA5C-SB

LLI Sample # SW 6689385  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 12:37

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1318 SDG#: PH013-18

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 16:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401B	06/25/2012 11:57	William C Schwebel	1

**Sample Description:** SL-722-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-722-SA5C-SB

LLI Sample # SW 6689386  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 14:18

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1319 SDG#: PH013-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	6.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-722-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-722-SA5C-SB

LLI Sample # SW 6689386  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 14:18

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1319 SDG#: PH013-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>						
11031	2378-TCDD	1746-01-6	0.0261 JB	0.0188	1.04	1
11031	12378-PeCDD	40321-76-4	0.107 JBQ	0.0281	5.21	1
11031	123478-HxCDD	39227-28-6	0.0989 JB	0.0450	5.21	1
11031	123678-HxCDD	57653-85-7	0.344 JB	0.0475	5.21	1
11031	123789-HxCDD	19408-74-3	0.246 JB	0.0459	5.21	1
11031	1234678-HpCDD	35822-46-9	7.91 B	0.0460	5.21	1
11031	OCDD	3268-87-9	85.1 B	0.0267	10.4	1
11031	2378-TCDF	51207-31-9	0.0562 U	0.0562	1.04	1
11031	12378-PeCDF	57117-41-6	0.348 JB	0.0263	5.21	1
11031	23478-PeCDF	57117-31-4	0.195 JB	0.0248	5.21	1
11031	123478-HxCDF	70648-26-9	0.424 JB	0.0305	5.21	1
11031	123678-HxCDF	57117-44-9	6.86 B	0.0284	5.21	1
11031	123789-HxCDF	72918-21-9	0.212 JB	0.0334	5.21	1
11031	234678-HxCDF	60851-34-5	0.166 JB	0.0306	5.21	1
11031	1234678-HpCDF	67562-39-4	1.57 JB	0.0182	5.21	1
11031	1234789-HpCDF	55673-89-7	0.197 JB	0.0321	5.21	1
11031	OCDF	39001-02-0	4.55 JB	0.0286	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	58	26 - 138
13C12-OCDF	46	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-722-SA5C-SB-6.0-7.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-722-SA5C-SB

LLI Sample # SW 6689386  
 LLI Group # 1316111  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 14:18

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1319 SDG#: PH013-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-722-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-722-SA5C-SB

LLI Sample # SW 6689386  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 14:18

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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Fairfax VA 22030

H1319 SDG#: PH013-19

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 22:09	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401B	06/25/2012 11:57	William C Schwebel	1

Sample Description: **EB-061412 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB**

LLI Sample # **WW 6689387**  
 LLI Group # **1316111**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 06/14/2012 14:30

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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H1320 SDG#: PH013-20EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.428 U	0.428	2.04	1
10915	12378-PeCDD	40321-76-4	0.331 U	0.331	10.2	1
10915	123478-HxCDD	39227-28-6	0.269 JBQ	0.228	10.2	1
10915	123678-HxCDD	57653-85-7	0.317 JB	0.235	10.2	1
10915	123789-HxCDD	19408-74-3	0.204 U	0.204	10.2	1
10915	1234678-HpCDD	35822-46-9	4.23 JB	0.335	10.2	1
10915	OCDD	3268-87-9	8.25 JB	0.431	20.4	1
10915	2378-TCDF	51207-31-9	0.227 JB	0.198	2.04	1
10915	12378-PeCDF	57117-41-6	0.289 JBQ	0.256	10.2	1
10915	23478-PeCDF	57117-31-4	0.426 JBQ	0.193	10.2	1
10915	123478-HxCDF	70648-26-9	0.152 U	0.152	10.2	1
10915	123678-HxCDF	57117-44-9	0.225 JBQ	0.149	10.2	1
10915	123789-HxCDF	72918-21-9	0.177 JBQ	0.135	10.2	1
10915	234678-HxCDF	60851-34-5	0.266 JBQ	0.119	10.2	1
10915	1234678-HpCDF	67562-39-4	0.721 JBQ	0.189	10.2	1
10915	1234789-HpCDF	55673-89-7	0.273 JB	0.186	10.2	1
10915	OCDF	39001-02-0	0.667 JBQ	0.309	20.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	42	25 - 164
13C12-12378-PeCDD	51	25 - 181
13C12-123478-HxCDD	48	32 - 141
13C12-123678-HxCDD	48	28 - 130
13C12-123789-HxCDD	51	28 - 130
13C12-1234678-HpCDD	46	23 - 140
13C12-OCDD	41	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	42	24 - 185
13C12-23478-PeCDF	51	21 - 178
13C12-123478-HxCDF	41	26 - 152
13C12-123678-HxCDF	41	26 - 123
13C12-234678-HxCDF	51	28 - 136
13C12-123789-HxCDF	49	29 - 147
13C12-1234678-HpCDF	38	28 - 143
13C12-1234789-HpCDF	42	26 - 138
13C12-OCDF	36	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB-061412 Water  
SSFL Phase 3 Soil Sampling  
EB

LLI Sample # WW 6689387  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 14:30

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

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H1320 SDG#: PH013-20EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans day	10-15 EPA 1613B	1	12170001	06/20/2012 03:04	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12170001	06/18/2012 09:20	Ginelle L Haines	1

**Sample Description:** SL-716-SA5C-SB-5.5-6.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-716-SA5C-SB

LLI Sample # SW 6689388  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 15:24

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1321 SDG#: PH013-21\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	6.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-716-SA5C-SB-5.5-6.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-716-SA5C-SB

LLI Sample # SW 6689388  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 15:24

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1321 SDG#: PH013-21\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0224 JB	0.0201	1.07	1
11031	12378-PeCDD	40321-76-4	0.0774 JB	0.0210	5.33	1
11031	123478-HxCDD	39227-28-6	0.0446 JB	0.0244	5.33	1
11031	123678-HxCDD	57653-85-7	0.141 JB	0.0263	5.33	1
11031	123789-HxCDD	19408-74-3	0.127 JBQ	0.0266	5.33	1
11031	1234678-HpCDD	35822-46-9	2.29 JB	0.0268	5.33	1
11031	OCDD	3268-87-9	23.5 B	0.0200	10.7	1
11031	2378-TCDF	51207-31-9	0.0428 J	0.0177	1.07	1
11031	12378-PeCDF	57117-41-6	0.110 JB	0.0117	5.33	1
11031	23478-PeCDF	57117-31-4	0.101 JB	0.0117	5.33	1
11031	123478-HxCDF	70648-26-9	0.101 JB	0.0182	5.33	1
11031	123678-HxCDF	57117-44-9	0.0798 JB	0.0167	5.33	1
11031	123789-HxCDF	72918-21-9	0.0576 JB	0.0183	5.33	1
11031	234678-HxCDF	60851-34-5	0.0634 JB	0.0155	5.33	1
11031	1234678-HpCDF	67562-39-4	0.369 JB	0.00852	5.33	1
11031	1234789-HpCDF	55673-89-7	0.0595 JB	0.0159	5.33	1
11031	OCDF	39001-02-0	0.714 JB	0.0203	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	59	26 - 138
13C12-OCDF	50	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-716-SA5C-SB-5.5-6.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-716-SA5C-SB

**LLI Sample #** SW 6689388  
**LLI Group #** 1316111  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 15:24

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1321 SDG#: PH013-21\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-716-SA5C-SB-5.5-6.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-716-SA5C-SB

LLI Sample # SW 6689388  
LLI Group # 1316111  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/13/2012 15:24

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/26/2012 14:00

Suite 400

Fairfax VA 22030

H1321 SDG#: PH013-21\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12170002	06/21/2012 23:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12170002	06/19/2012 09:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12177162401B	06/25/2012 11:57	William C Schwebel	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/26/12 at 02:00 PM

Group Number: 1316111

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12177162401A Moisture CDM	Sample number(s): 6689368-6689377					100	80-120		
Batch number: 12177162401B Moisture CDM	Sample number(s): 6689378-6689386,6689388					100	80-120		
<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12170001	Sample number(s): 6689387								
2378-TCDD	0.456	U	0.456	2.00	pg/l	100	67-158		
12378-PeCDD	0.567	J	0.409	10.0	pg/l	100	70-142		
123478-HxCDD	0.494	J	0.317	10.0	pg/l	97	70-164		
123678-HxCDD	0.535	J	0.327	10.0	pg/l	100	76-134		
123789-HxCDD	0.934	J	0.306	10.0	pg/l	103	64-162		
1234678-HpCDD	6.77	J	0.395	10.0	pg/l	110	70-140		
OCDD	13.2	J	0.467	20.0	pg/l	109	78-144		
2378-TCDF	0.318	J	0.288	2.00	pg/l	88	75-158		
12378-PeCDF	0.493	J	0.333	10.0	pg/l	98	80-134		
23478-PeCDF	0.640	J	0.268	10.0	pg/l	92	68-160		
123478-HxCDF	0.685	J	0.217	10.0	pg/l	101	72-134		
123678-HxCDF	0.827	J	0.219	10.0	pg/l	105	84-130		
123789-HxCDF	1.05	J	0.209	10.0	pg/l	102	78-130		
234678-HxCDF	0.617	J	0.203	10.0	pg/l	97	70-156		
1234678-HpCDF	1.40	J	0.194	10.0	pg/l	102	82-122		
1234789-HpCDF	0.816	J	0.190	10.0	pg/l	104	78-138		
OCDF	2.31	J	0.310	20.0	pg/l	108	63-170		
Batch number: 12170002	Sample number(s): 6689368-6689386,6689388								
2378-TCDD	0.0331	J	0.0225	1.00	ng/kg	99	67-158		
12378-PeCDD	0.0430	J	0.0204	5.00	ng/kg	99	70-142		
123478-HxCDD	0.0280	J	0.0178	5.00	ng/kg	91	70-164		
123678-HxCDD	0.0452	J	0.0187	5.00	ng/kg	92	76-134		
123789-HxCDD	0.0591	J	0.0167	5.00	ng/kg	98	64-162		
1234678-HpCDD	0.296	J	0.0200	5.00	ng/kg	97	70-140		
OCDD	0.579	J	0.0253	10.0	ng/kg	92	78-144		
2378-TCDF	0.0171	U	0.0171	1.00	ng/kg	91	75-158		
12378-PeCDF	0.0386	J	0.0141	5.00	ng/kg	94	80-134		
23478-PeCDF	0.0515	J	0.0140	5.00	ng/kg	91	68-160		
123478-HxCDF	0.0591	J	0.0110	5.00	ng/kg	99	72-134		
123678-HxCDF	0.0294	J	0.00991	5.00	ng/kg	99	84-130		
123789-HxCDF	0.0349	J	0.0118	5.00	ng/kg	98	78-130		
234678-HxCDF	0.0424	J	0.0101	5.00	ng/kg	97	70-156		
1234678-HpCDF	0.0669	J	0.00749	5.00	ng/kg	90	82-122		
1234789-HpCDF	0.0427	J	0.0123	5.00	ng/kg	94	78-138		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/26/12 at 02:00 PM

Group Number: 1316111

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
OCDF	0.138 J	0.0236	10.0	ng/kg	97		63-170		

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>	
Batch number: 12177162401A Moisture CDM	Sample number(s): 6689368-6689377					BKG: 6689370				
						8.9	9.3	4	20	
Batch number: 12177162401B Moisture CDM	Sample number(s): 6689378-6689386, 6689388					BKG: 6689386				
						6.6	7.2	10	20	

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b. Dioxins/Furans 10-15 day  
Batch number: 12170001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6689387	42	51	41	41	51	49
Blank	43	42	36	36	38	39
OPR	59	64	56	53	58	56
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6689387	38	42	36	51	48	48
Blank	37	39	39	42	39	39
OPR	53	54	49	62	60	58
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6689387	51	46	41	58	42	
Blank	41	41	40	43	36	
OPR	60	58	51	57	55	
Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12170002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6689368	87	85	86	88	85	81
6689369	92	87	88	89	91	93

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/26/12 at 02:00 PM

Group Number: 1316111

### Surrogate Quality Control

6689370	78	78	78	83	84	80
6689371	81	80	83	82	83	86
6689372	67	73	73	77	78	72
6689373	71	75	76	80	77	69
6689374	78	76	75	83	79	74
6689375	94	88	83	97	99	88
6689376	84	87	83	87	89	88
6689377	82	82	81	87	86	75
6689378	77	83	78	85	79	74
6689379	58	62	58	63	62	56
6689380	84	82	79	82	85	80
6689381	78	77	74	80	86	75
6689382	75	79	76	85	79	66
6689383	84	89	77	82	79	73
6689384	97	92	90	98	99	90
6689385	83	82	81	94	88	79
6689386	85	76	79	87	78	73
6689388	83	75	75	81	84	75
Blank	90	85	88	93	88	83
OPR	69	74	73	81	74	66

Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD

6689368	86	77	78	82	86	87
6689369	89	78	68	87	89	90
6689370	91	71	64	81	85	83
6689371	87	79	72	81	85	83
6689372	90	69	59	78	81	78
6689373	89	69	62	76	81	80
6689374	93	60	54	80	82	80
6689375	114	72	65	94	100	99
6689376	107	75	72	89	91	88
6689377	105	63	47	86	89	85
6689378	101	64	56	80	83	85
6689379	82	55	52	65	64	63
6689380	89	69	63	81	85	85
6689381	102	64	56	78	86	83
6689382	103	57	47	81	84	82
6689383	104	67	59	92	80	79
6689384	122	75	66	97	104	100
6689385	117	67	62	85	90	89
6689386	97	58	46	80	84	84
6689388	95	59	50	79	88	84
Blank	108	69	55	94	92	92
OPR	89	56	43	78	81	80

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	

6689368	87	85	88	82	82
6689369	90	83	77	83	88
6689370	84	78	77	71	80
6689371	82	83	82	78	81
6689372	80	77	78	66	78
6689373	75	79	77	67	79

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/26/12 at 02:00 PM

Group Number: 1316111

### Surrogate Quality Control

6689374	81	77	78	73	82
6689375	98	91	91	81	98
6689376	91	93	100	79	91
6689377	87	85	76	76	90
6689378	85	83	81	72	87
6689379	63	72	76	54	63
6689380	82	78	81	80	88
6689381	84	81	79	70	85
6689382	84	80	73	72	86
6689383	86	88	91	77	93
6689384	98	96	95	90	102
6689385	91	91	94	75	91
6689386	83	79	72	75	82
6689388	80	77	72	71	82
Blank	95	91	81	80	94
OPR	81	72	66	66	81
<hr/>					
Limits:	28-130	23-140	17-157	24-169	24-185

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct #13013 Cp #1316111

Sample # 6689368-88  
**SSFL Phase 3 Chain of Custody**

CDM Smith  
 Date Shipped: 6/14/2012  
 Carrier Name: FedEx  
 Airbill No: 793683338891

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120614-01  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Orpatein	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Emmettes 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EPH 8015	TPH-SRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	PH 9040 (Water)	Pesticide Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes		
SL-687-SA5C-SB-4.0-5.0	6/12/12 14:10	SO	None	1 - 4 oz glass	10 day																																	
SL-688-SA5C-SB-4.0-5.0	6/12/12 14:50	SO	None	1 - 4 oz glass	10 day																																	
SL-688-SA5C-SB-9.0-10.0	6/12/12 15:00	SO	None	1 - 8 oz glass	10 day																																	
SL-689-SA5C-SB-4.0-5.0	6/12/12 13:25	SO	None	1 - 4 oz glass	10 day																																	
SL-689-SA5C-SB-7.5-8.5	6/12/12 13:45	SO	None	1 - 4 oz glass	10 day																																	
SL-690-SA5C-SB-3.5-4.5	6/12/12 11:25	SO	None	1 - 4 oz glass	10 day																																	
SL-692-SA5C-SB-5.0-6.0	6/12/12 10:15	SO	None	1 - 4 oz glass	10 day																																	
SL-693-SA5C-SB-4.0-5.0	6/12/12 09:25	SO	None	1 - 4 oz glass	10 day																																	
SL-693-SA5C-SB-9.0-10.0	6/12/12 09:35	SO	None	1 - 4 oz glass	10 day																																	
SL-683-SA5C-SB-4.0-5.0	6/13/12 09:31	SO	None	1 - 8 oz glass	10 day																																	
SL-683-SA5C-SB-7.0-8.0	6/13/12 09:45	SO	None	1 - 8 oz glass	10 day																																	
SL-684-SA5C-SB-2.5-3.5	6/13/12 08:18	SO	None	1 - 4 oz glass	10 day																																	
SL-685-SA5C-SB-4.0-5.0	6/13/12 09:00	SO	None	1 - 4 oz glass	10 day																																	
SL-685-SA5C-SB-7.0-8.0	6/13/12 08:48	SO	None	1 - 8 oz glass	10 day																																	
SL-717-SA5C-SB-6.0-7.0	6/13/12 14:45	SO	None	1 - 8 oz glass	10 day																																	
SL-718-SA5C-SB-4.0-5.0	6/13/12 13:08	SO	None	1 - 8 oz glass	10 day																																	
SL-718-SA5C-SB-8.0-9.0	6/13/12 13:10	SO	None	1 - 8 oz glass	10 day																																	
SL-720-SA5C-SB-4.5-5.5	6/13/12 12:37	SO	None	1 - 8 oz glass	10 day																																	
SL-722-SA5C-SB-6.0-7.0	6/13/12 14:18	SO	None	1 - 8 oz glass	10 day																																	
EB-061412	6/14/12 14:30	WQ	None	3 - 1 L Amber	10 day																																	
SL-716-SA5C-SB-5.5-6.5	6/13/12 15:24	SO	None	1 - 8 oz glass	10 day																																	
SL-715-SA5C-SB-6.0-7.0	6/14/12 11:20	SO	None	1 - 8 oz glass	10 day																																	
SL-719-SA5C-SB-6.0-7.0	6/14/12 12:00	SO	None	1 - 4 oz glass	10 day																																	
SL-711-SA5C-SB-9.0-10.0	6/14/12 08:46	SO	None	1 - 4 oz glass	10 day																																	
SL-711-SA5C-SB-4.0-5.0	6/14/12 08:55	SO	None	1 - 4 oz glass	10 day																																	
SL-712-SA5C-SB-4.0-5.0	6/14/12 09:50	SO	None	1 - 4 oz glass	10 day																																	
SL-712-SA5C-SB-9.0-10.0	6/14/12 09:44	SO	None	1 - 4 oz glass	10 day																																	
SL-713-SA5C-SB-6.0-7.0	6/14/12 10:40	SO	None	1 - 4 oz glass	10 day																																	

*Can 6/15/12 09:50*

acc#13013 Cp#1316111

sample# 6689368-88  
**SSFL Phase 3 Chain of Custody**

CDM Smith  
 DateShipped: 6/14/2012  
 CarrierName: FedEx  
 AirbillNo: 793683338891

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120614-01  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Other Analysis/Notes
						Methl Mercury 1630 Orlanotin NDMA 1625 Formaldehyde 8315 Cyanide 9012 Energetics 8330 Nitrates 300.0/9056 Terphenyls 8015 Alcohols 8015 Glycols 8015 TPH-EH 8015 TPH-SRO 8015 1,4 Dioxane 8260 SIM VOCs 8260 Pesticides 8081 Herbicides 8151 Hex Cr 7196/7199 PH 9040 (Water) PH 9045 (Soil) Perchlorate Confirm 6850/6860 Perchlorate 314.0/331 PCBs/PCs 8082 Dioxins 1613 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 SVOC 8270 Fluoride 300.0/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020

Special Instructions: **SAMPLES TRANSFERRED FROM**  
**CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	Slip/Meyer	6/14/2012									
									K	6/15/12	0950

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 29, 2012

Project: SSFL Phase 3 Sampling

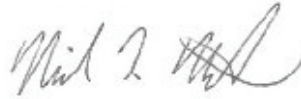
Submittal Date: 06/15/2012  
Group Number: 1316112  
SDG: PH014  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-715-SA5C-SB-6.0-7.0 Soil  
SL-719-SA5C-SB-6.0-7.0 Soil  
SL-711-SA5C-SB-9.0-10.0 Soil  
SL-711-SA5C-SB-4.0-5.0 Soil  
SL-712-SA5C-SB-4.0-5.0 Soil  
SL-712-SA5C-SB-9.0-10.0 Soil  
SL-713-SA5C-SB-6.0-7.0 SoilLancaster Labs (LLI) #6689389  
6689390  
6689391  
6689392  
6689393  
6689394  
6689395

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
ELECTRONIC COPY TO  
CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-715-SA5C-SB-6.0-7.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-715-SA5C-SB

LLI Sample # SW 6689389  
 LLI Group # 1316112  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 11:20

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H1401 SDG#: PH014-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 6.1	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-715-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-715-SA5C-SB

LLI Sample # SW 6689389  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 11:20

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H1401 SDG#: PH014-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0634 J	0.0465	1.05	1
11031	12378-PeCDD	40321-76-4	0.252 J	0.0538	5.26	1
11031	123478-HxCDD	39227-28-6	0.261 J	0.0573	5.26	1
11031	123678-HxCDD	57653-85-7	0.600 JB	0.0612	5.26	1
11031	123789-HxCDD	19408-74-3	0.374 JB	0.0548	5.26	1
11031	1234678-HpCDD	35822-46-9	6.46 B	0.0577	5.26	1
11031	OCDD	3268-87-9	59.5 B	0.0443	10.5	1
11031	2378-TCDF	51207-31-9	0.0612 U	0.0612	1.05	1
11031	12378-PeCDF	57117-41-6	0.275 JB	0.0352	5.26	1
11031	23478-PeCDF	57117-31-4	0.144 JB	0.0350	5.26	1
11031	123478-HxCDF	70648-26-9	0.476 JB	0.0358	5.26	1
11031	123678-HxCDF	57117-44-9	0.265 JB	0.0347	5.26	1
11031	123789-HxCDF	72918-21-9	0.123 JB	0.0383	5.26	1
11031	234678-HxCDF	60851-34-5	0.222 J	0.0359	5.26	1
11031	1234678-HpCDF	67562-39-4	1.20 JB	0.0232	5.26	1
11031	1234789-HpCDF	55673-89-7	0.199 JB	0.0316	5.26	1
11031	OCDF	39001-02-0	3.22 JB	0.0389	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	69	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	64	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	86	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	68	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-715-SA5C-SB-6.0-7.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-715-SA5C-SB

LLI Sample # SW 6689389  
 LLI Group # 1316112  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 11:20

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H1401 SDG#: PH014-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-715-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-715-SA5C-SB

LLI Sample # SW 6689389  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 11:20

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/29/2012 11:57

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Fairfax VA 22030

H1401 SDG#: PH014-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 08:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11625	Moisture CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-719-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-719-SA5C-SB

LLI Sample # SW 6689390  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 12:00

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

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Fairfax VA 22030

H1402 SDG#: PH014-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-719-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-719-SA5C-SB

LLI Sample # SW 6689390  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 12:00

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

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Fairfax VA 22030

H1402 SDG#: PH014-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0543	U	0.0543	1.07	1
11031	12378-PeCDD	40321-76-4	0.0375	U	0.0375	5.36	1
11031	123478-HxCDD	39227-28-6	0.0406	J	0.0294	5.36	1
11031	123678-HxCDD	57653-85-7	0.0460	JB	0.0329	5.36	1
11031	123789-HxCDD	19408-74-3	0.0560	JB	0.0324	5.36	1
11031	1234678-HpCDD	35822-46-9	0.448	JB	0.0387	5.36	1
11031	OCDD	3268-87-9	1.03	JBQ	0.0358	10.7	1
11031	2378-TCDF	51207-31-9	0.0402	U	0.0402	1.07	1
11031	12378-PeCDF	57117-41-6	0.0264	U	0.0264	5.36	1
11031	23478-PeCDF	57117-31-4	0.102	JBQ	0.0254	5.36	1
11031	123478-HxCDF	70648-26-9	0.115	JB	0.0158	5.36	1
11031	123678-HxCDF	57117-44-9	0.129	JB	0.0120	5.36	1
11031	123789-HxCDF	72918-21-9	0.0169	U	0.0169	5.36	1
11031	234678-HxCDF	60851-34-5	0.0148	U	0.0148	5.36	1
11031	1234678-HpCDF	67562-39-4	0.0494	JB	0.0174	5.36	1
11031	1234789-HpCDF	55673-89-7	0.0436	JB	0.0220	5.36	1
11031	OCDF	39001-02-0	0.106	JB	0.0337	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	87	26 - 152
13C12-123678-HxCDF	112	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	67	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-719-SA5C-SB-6.0-7.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-719-SA5C-SB

LLI Sample # SW 6689390  
 LLI Group # 1316112  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 12:00

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

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H1402 SDG#: PH014-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-719-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-719-SA5C-SB

LLI Sample # SW 6689390  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 12:00

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H1402 SDG#: PH014-02

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### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

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### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 09:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-711-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-711-SA5C-SB

LLI Sample # SW 6689391  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 08:46

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H1403 SDG#: PH014-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-711-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-711-SA5C-SB

LLI Sample # SW 6689391  
LLI Group # 1316112  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/14/2012 08:46

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/29/2012 11:57

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H1403 SDG#: PH014-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0545	U	0.0545	1.10	1
11031	12378-PeCDD	40321-76-4	0.0496	J	0.0384	5.50	1
11031	123478-HxCDD	39227-28-6	0.0310	U	0.0310	5.50	1
11031	123678-HxCDD	57653-85-7	0.0969	JB	0.0311	5.50	1
11031	123789-HxCDD	19408-74-3	0.0428	JBQ	0.0294	5.50	1
11031	1234678-HpCDD	35822-46-9	0.548	JBQ	0.0384	5.50	1
11031	OCDD	3268-87-9	2.65	JB	0.0366	11.0	1
11031	2378-TCDF	51207-31-9	0.0455	JB	0.0438	1.10	1
11031	12378-PeCDF	57117-41-6	0.0274	JBQ	0.0272	5.50	1
11031	23478-PeCDF	57117-31-4	0.0514	JBQ	0.0242	5.50	1
11031	123478-HxCDF	70648-26-9	0.0347	JBQ	0.0160	5.50	1
11031	123678-HxCDF	57117-44-9	0.0244	JBQ	0.0136	5.50	1
11031	123789-HxCDF	72918-21-9	0.0406	JB	0.0144	5.50	1
11031	234678-HxCDF	60851-34-5	0.0342	JQ	0.0155	5.50	1
11031	1234678-HpCDF	67562-39-4	0.0993	JB	0.0134	5.50	1
11031	1234789-HpCDF	55673-89-7	0.0478	JBQ	0.0192	5.50	1
11031	OCDF	39001-02-0	0.305	JB	0.0322	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	96	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	97	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	72	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-711-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-711-SA5C-SB

LLI Sample # SW 6689391  
 LLI Group # 1316112  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 08:46

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/29/2012 11:57

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Fairfax VA 22030

H1403 SDG#: PH014-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-711-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-711-SA5C-SB

LLI Sample # SW 6689391  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 08:46

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

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H1403 SDG#: PH014-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 10:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-711-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-711-SA5C-SB

LLI Sample # SW 6689392  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 08:55

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H1404 SDG#: PH014-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	5.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-711-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-711-SA5C-SB

LLI Sample # SW 6689392  
LLI Group # 1316112  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/14/2012 08:55

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

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H1404 SDG#: PH014-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>		
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>		
11031	2378-TCDD	1746-01-6	0.0877	J	0.0391	1.02	1
11031	12378-PeCDD	40321-76-4	0.121	J	0.0449	5.11	1
11031	123478-HxCDD	39227-28-6	0.184	J	0.0552	5.11	1
11031	123678-HxCDD	57653-85-7	0.701	JB	0.0553	5.11	1
11031	123789-HxCDD	19408-74-3	0.471	JB	0.0555	5.11	1
11031	1234678-HpCDD	35822-46-9	13.3	B	0.0588	5.11	1
11031	OCDD	3268-87-9	136	B	0.0317	10.2	1
11031	2378-TCDF	51207-31-9	0.0489	U	0.0489	1.02	1
11031	12378-PeCDF	57117-41-6	0.130	JB	0.0325	5.11	1
11031	23478-PeCDF	57117-31-4	0.0753	JB	0.0322	5.11	1
11031	123478-HxCDF	70648-26-9	0.303	JB	0.0328	5.11	1
11031	123678-HxCDF	57117-44-9	0.204	JB	0.0295	5.11	1
11031	123789-HxCDF	72918-21-9	0.261	JB	0.0272	5.11	1
11031	234678-HxCDF	60851-34-5	0.201	J	0.0352	5.11	1
11031	1234678-HpCDF	67562-39-4	2.16	JB	0.0350	5.11	1
11031	1234789-HpCDF	55673-89-7	0.283	JBQ	0.0394	5.11	1
11031	OCDF	39001-02-0	7.29	JB	0.0269	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	89	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	85	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	91	26 - 152
13C12-123678-HxCDF	96	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	109	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	79	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-711-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-711-SA5C-SB

LLI Sample # SW 6689392  
 LLI Group # 1316112  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 08:55

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/29/2012 11:57

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Fairfax VA 22030

H1404 SDG#: PH014-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-711-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-711-SA5C-SB

LLI Sample # SW 6689392  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 08:55

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H1404 SDG#: PH014-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 10:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-712-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-712-SA5C-SB

LLI Sample # SW 6689393  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 09:50

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H14-5 SDG#: PH014-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	0.97	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-712-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-712-SA5C-SB

LLI Sample # SW 6689393  
LLI Group # 1316112  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/14/2012 09:50

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H14-5 SDG#: PH014-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0446 JQ	0.0410	0.995	1
11031	12378-PeCDD	40321-76-4	0.292 J	0.0432	4.97	1
11031	123478-HxCDD	39227-28-6	0.406 J	0.0694	4.97	1
11031	123678-HxCDD	57653-85-7	1.15 JB	0.0701	4.97	1
11031	123789-HxCDD	19408-74-3	0.855 JB	0.0674	4.97	1
11031	1234678-HpCDD	35822-46-9	33.6 B	0.0820	4.97	1
11031	OCDD	3268-87-9	475 B	0.0464	9.95	1
11031	2378-TCDF	51207-31-9	0.0515 U	0.0515	0.995	1
11031	12378-PeCDF	57117-41-6	0.464 JB	0.0355	4.97	1
11031	23478-PeCDF	57117-31-4	0.215 JB	0.0361	4.97	1
11031	123478-HxCDF	70648-26-9	0.597 JB	0.0412	4.97	1
11031	123678-HxCDF	57117-44-9	0.412 JB	0.0320	4.97	1
11031	123789-HxCDF	72918-21-9	0.163 JB	0.0406	4.97	1
11031	234678-HxCDF	60851-34-5	0.364 J	0.0386	4.97	1
11031	1234678-HpCDF	67562-39-4	6.88 B	0.0329	4.97	1
11031	1234789-HpCDF	55673-89-7	0.431 JB	0.0383	4.97	1
11031	OCDF	39001-02-0	13.6 B	0.0339	9.95	1

The recovery for labeled compound 13C12-123678-HxCDF is outside of QC acceptance limits. The data quality is not impacted by this result.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	87	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	106	26 - 152
13C12-123678-HxCDF	126	26 - 123
13C12-234678-HxCDF	101	28 - 136
13C12-123789-HxCDF	106	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	92	26 - 138
13C12-OCDF	78	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-712-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-712-SA5C-SB

LLI Sample # SW 6689393  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 09:50

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H14-5 SDG#: PH014-05

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

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**Sample Description:** SL-712-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-712-SA5C-SB

LLI Sample # SW 6689393  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 09:50

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H14-5 SDG#: PH014-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 11:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-712-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-712-SA5C-SB

LLI Sample # SW 6689394  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 09:44

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H1406 SDG#: PH014-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-712-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-712-SA5C-SB

LLI Sample # SW 6689394  
LLI Group # 1316112  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/14/2012 09:44

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H1406 SDG#: PH014-06

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0601	J	0.0527	1.07	1
11031	12378-PeCDD	40321-76-4	0.241	JQ	0.0388	5.37	1
11031	123478-HxCDD	39227-28-6	0.0710	J	0.0343	5.37	1
11031	123678-HxCDD	57653-85-7	0.113	JBQ	0.0384	5.37	1
11031	123789-HxCDD	19408-74-3	0.111	JBQ	0.0356	5.37	1
11031	1234678-HpCDD	35822-46-9	0.381	JBQ	0.0327	5.37	1
11031	OCDD	3268-87-9	1.19	JB	0.0347	10.7	1
11031	2378-TCDF	51207-31-9	0.0601	JB	0.0386	1.07	1
11031	12378-PeCDF	57117-41-6	0.169	JB	0.0299	5.37	1
11031	23478-PeCDF	57117-31-4	0.173	JB	0.0283	5.37	1
11031	123478-HxCDF	70648-26-9	0.0883	JB	0.0201	5.37	1
11031	123678-HxCDF	57117-44-9	0.0853	JB	0.0138	5.37	1
11031	123789-HxCDF	72918-21-9	0.0682	JB	0.0189	5.37	1
11031	234678-HxCDF	60851-34-5	0.0533	J	0.0179	5.37	1
11031	1234678-HpCDF	67562-39-4	0.104	JBQ	0.0155	5.37	1
11031	1234789-HpCDF	55673-89-7	0.0221	U	0.0221	5.37	1
11031	OCDF	39001-02-0	0.134	JB	0.0367	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	59	25 - 164
13C12-12378-PeCDD	65	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	68	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	54	24 - 169
13C12-12378-PeCDF	65	24 - 185
13C12-23478-PeCDF	61	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	97	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	62	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-712-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-712-SA5C-SB

LLI Sample # SW 6689394  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 09:44

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

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Fairfax VA 22030

H1406 SDG#: PH014-06

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-712-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-712-SA5C-SB

LLI Sample # SW 6689394  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 09:44

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H1406 SDG#: PH014-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 12:51	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-713-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-713-SA5C-SB

LLI Sample # SW 6689395  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 10:40

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

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H1407 SDG#: PH014-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-713-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-713-SA5C-SB

LLI Sample # SW 6689395  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 10:40

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

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Reported: 06/29/2012 11:57

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H1407 SDG#: PH014-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0491	J	0.0482	1.08	1
11031	12378-PeCDD	40321-76-4	0.155	J	0.0381	5.40	1
11031	123478-HxCDD	39227-28-6	0.122	J	0.0346	5.40	1
11031	123678-HxCDD	57653-85-7	0.104	JB	0.0332	5.40	1
11031	123789-HxCDD	19408-74-3	0.131	JB	0.0319	5.40	1
11031	1234678-HpCDD	35822-46-9	0.613	JB	0.0368	5.40	1
11031	OCDD	3268-87-9	3.45	JB	0.0315	10.8	1
11031	2378-TCDF	51207-31-9	0.0465	JBQ	0.0407	1.08	1
11031	12378-PeCDF	57117-41-6	0.267	JB	0.0273	5.40	1
11031	23478-PeCDF	57117-31-4	0.224	JB	0.0257	5.40	1
11031	123478-HxCDF	70648-26-9	0.219	JB	0.0218	5.40	1
11031	123678-HxCDF	57117-44-9	0.135	JB	0.0200	5.40	1
11031	123789-HxCDF	72918-21-9	0.0930	JB	0.0161	5.40	1
11031	234678-HxCDF	60851-34-5	0.0949	JQ	0.0203	5.40	1
11031	1234678-HpCDF	67562-39-4	0.136	JB	0.0157	5.40	1
11031	1234789-HpCDF	55673-89-7	0.0594	JBQ	0.0206	5.40	1
11031	OCDF	39001-02-0	0.249	JBQ	0.0301	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	112	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	72	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-713-SA5C-SB-6.0-7.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-713-SA5C-SB

LLI Sample # SW 6689395  
 LLI Group # 1316112  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 10:40

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H1407 SDG#: PH014-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-713-SA5C-SB-6.0-7.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-713-SA5C-SB

LLI Sample # SW 6689395  
LLI Group # 1316112  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/14/2012 10:40

CDM Federal Programs Corp.

Submitted: 06/15/2012 09:50

3201 Jermantown Road

Reported: 06/29/2012 11:57

Suite 400

Fairfax VA 22030

H1407 SDG#: PH014-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 13:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/29/12 at 11:57 AM

Group Number: 1316112

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12178162401A	Sample number(s): 6689389-6689395								
Moisture CDM					100		80-120		
Moisture CDM					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12177002	Sample number(s): 6689389-6689395								
2378-TCDD	0.0363 U	0.0363	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0293 U	0.0293	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0248 U	0.0248	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0480 J	0.0248	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0472 J	0.0233	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.274 J	0.0267	5.00	ng/kg	103		70-140		
OCDD	0.420 J	0.0281	10.0	ng/kg	102		78-144		
2378-TCDF	0.0347 J	0.0276	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0240 J	0.0193	5.00	ng/kg	109		80-134		
23478-PeCDF	0.0720 J	0.0191	5.00	ng/kg	101		68-160		
123478-HxCDF	0.0272 J	0.0155	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0301 J	0.0136	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0353 J	0.0110	5.00	ng/kg	109		78-130		
234678-HxCDF	0.0140 U	0.0140	5.00	ng/kg	105		70-156		
1234678-HpCDF	0.0730 J	0.0104	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.0329 J	0.0178	5.00	ng/kg	105		78-138		
OCDF	0.143 J	0.0251	10.0	ng/kg	105		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12178162401A	Sample number(s): 6689389-6689395					BKG: P695333			
Moisture CDM						12.1	12.1	0	20
Moisture CDM						12.1	12.1	0	20

### Surrogate Quality Control

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/29/12 at 11:57 AM

Group Number: 1316112

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12177002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6689389	71	71	86	89	85	82
6689390	67	77	87	112	88	86
6689391	65	77	85	96	84	97
6689392	89	86	91	96	83	109
6689393	86	89	106	126*	101	106
6689394	59	61	72	97	74	79
6689395	69	75	81	87	83	112
Blank	70	70	79	87	80	110
OPR	66	66	74	79	76	76
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6689389	82	65	68	69	77	75
6689390	86	73	67	76	80	78
6689391	102	79	72	77	78	78
6689392	86	82	79	83	80	80
6689393	99	92	78	87	93	92
6689394	89	66	62	65	70	67
6689395	98	83	72	74	77	78
Blank	103	70	66	74	79	78
OPR	96	64	62	71	79	76
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6689389	78	64	69	70	75	
6689390	75	73	74	66	79	
6689391	78	80	76	64	77	
6689392	76	74	78	85	89	
6689393	91	88	82	87	94	
6689394	68	72	69	54	65	
6689395	78	80	79	65	76	
Blank	81	79	75	64	78	
OPR	77	75	72	62	71	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct #13013 Cp #1316112

# Sample # 6689389-95 SSFL Phase 3 Chain of Custody

CDM Smith

No: 20120614-01

Date Shipped: 6/14/2012

Contact Name: Pam Hartman

Cooler #:

Carrier Name: FedEx

Contact Phone: (818)466-8007

Lab:

Lancaster

Airbill No: 793683338891

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	PCBs/PCTs 8082	Dioxin 1613	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	pH 9045 (Soil)	pH 9040 (Water)	Hex Cr. 7196/7199	Herbicides 8151	Pesticides 8081	VOCs 8260	1,4 Dioxane 8260 SIM	TPH-GR0 8015	TPH-EFH 8015	Alcohols 8015	Terphenyls 8015	Nitrates 300.0/9056	Energetic 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Methyl Mercury 1630	Orfotenin	Other Analysis/Notes			
SL-687-SA5C-SB-4.0-5.0	6/12/12 14:10	SO	None	1 - 4 oz glass	10 day	X																																	
SL-688-SA5C-SB-4.0-5.0	6/12/12 14:50	SO	None	1 - 4 oz glass	10 day	X																																	
SL-688-SA5C-SB-9.0-10.0	6/12/12 15:00	SO	None	1 - 8 oz glass	10 day	X																																	
SL-689-SA5C-SB-4.0-5.0	6/12/12 13:25	SO	None	1 - 4 oz glass	10 day	X																																	
SL-689-SA5C-SB-7.5-8.5	6/12/12 13:45	SO	None	1 - 4 oz glass	10 day	X																																	
SL-690-SA5C-SB-3.5-4.5	6/12/12 11:25	SO	None	1 - 4 oz glass	10 day	X																																	
SL-692-SA5C-SB-5.0-6.0	6/12/12 10:15	SO	None	1 - 4 oz glass	10 day	X																																	
SL-693-SA5C-SB-4.0-5.0	6/12/12 09:25	SO	None	1 - 4 oz glass	10 day	X																																	
SL-693-SA5C-SB-9.0-10.0	6/12/12 09:35	SO	None	1 - 4 oz glass	10 day	X																																	
SL-683-SA5C-SB-4.0-5.0	6/13/12 09:31	SO	None	1 - 8 oz glass	10 day	X																																	
SL-683-SA5C-SB-7.0-8.0	6/13/12 09:45	SO	None	1 - 8 oz glass	10 day	X																																	
SL-684-SA5C-SB-2.5-3.5	6/13/12 08:18	SO	None	1 - 4 oz glass	10 day	X																																	
SL-685-SA5C-SB-4.0-5.0	6/13/12 09:00	SO	None	1 - 4 oz glass	10 day	X																																	
SL-685-SA5C-SB-7.0-8.0	6/13/12 08:48	SO	None	1 - 8 oz glass	10 day	X																																	
SL-717-SA5C-SB-6.0-7.0	6/13/12 14:45	SO	None	1 - 8 oz glass	10 day	X																																	
SL-718-SA5C-SB-4.0-5.0	6/13/12 13:08	SO	None	1 - 8 oz glass	10 day	X																																	
SL-718-SA5C-SB-8.0-9.0	6/13/12 13:10	SO	None	1 - 8 oz glass	10 day	X																																	
SL-720-SA5C-SB-4.5-5.5	6/13/12 12:37	SO	None	1 - 8 oz glass	10 day	X																																	
SL-722-SA5C-SB-6.0-7.0	6/13/12 14:18	SO	None	1 - 8 oz glass	10 day	X																																	
EB-061412	6/14/12 14:30	WQ	None	3 - 1 L Amber	10 day	X																																	
SL-716-SA5C-SB-5.5-6.5	6/13/12 15:24	SO	None	1 - 8 oz glass	10 day	X																																	
SL-715-SA5C-SB-6.0-7.0	6/14/12 11:20	SO	None	1 - 8 oz glass	10 day	X																																	X
SL-719-SA5C-SB-6.0-7.0	6/14/12 12:00	SO	None	1 - 4 oz glass	10 day	X																																	
SL-711-SA5C-SB-9.0-10.0	6/14/12 08:46	SO	None	1 - 4 oz glass	10 day	X																																	
SL-711-SA5C-SB-4.0-5.0	6/14/12 08:55	SO	None	1 - 4 oz glass	10 day	X																																	
SL-712-SA5C-SB-4.0-5.0	6/14/12 09:50	SO	None	1 - 4 oz glass	10 day	X																																	
SL-712-SA5C-SB-9.0-10.0	6/14/12 09:44	SO	None	1 - 4 oz glass	10 day	X																																	
SL-713-SA5C-SB-6.0-7.0	6/14/12 10:40	SO	None	1 - 4 oz glass	10 day	X																																	

*Kan 6/15/12 09:50*

acct# 13013 Cp# 1316112

sample# 6689389-95  
**SSFL Phase 3 Chain of Custody**

CDM Smith

Date Shipped: 6/14/2012

Carrier Name: FedEx

Airbill No: 793683338891

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No:

20120614-01

Cooler #:

Lab:

Lancaster

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Fluoride 3000/9056 Mercury 7470 (Water) Mercury 7471 (Soil) Metals 6010 and 6020 SVOC 8270 1,4 Dioxane 8270 SIM PAHs 8270 SIM TIC 8270 PCBs/PCTs 8082 Dioxins 1613 Perchlorate 314.0/331 Perchlorate Confirm 6850/6860 pH 9045 (Soil) Hex Cr 7196/7199 pH 9040 (Water) Pesticides 8081 Herbicides 8151 VOCs 8260 1,4 Dioxane 8260 SIM TPH-GR0 8015 TPH-SEH 8015 Glycols 8015 Alcohols 8015 Terphenyls 8015 Nitrates 3000/9056 Energetics 8330 Cyanide 9012 NDMA 1625 Formaldehyde 8315 Orpentin Methyl Mercury 1630	Other Analysis/Notes
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Special Instructions: **SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>Supplied</i>	<i>6/14/2012</i>									
									<i>K</i>	<i>6/15/12</i>	<i>0950</i>

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

June 29, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 06/21/2012  
Group Number: 1317266  
SDG: PT012  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample Description

FB-062012 Water

Lancaster Labs (LLI) #

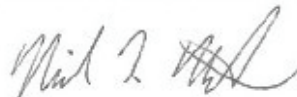
6695325

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC  
COPY TO  
1 COPY TOCDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,

Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259



Lancaster  
Laboratories

# ***Analysis Report***

---

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

Sample Description: **FB-062012 Water**  
**SSFL Phase 3 Soil Sampling**  
**FB**

LLI Sample # **WW 6695325**  
 LLI Group # **1317266**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 06/20/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

3201 Jermantown Road

Reported: 06/29/2012 09:46

Suite 400

Fairfax VA 22030

620FB SDG#: PT012-01FB\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	
04144	20b Formaldehyde 8315A	50-00-0	10 U	10	50	1
The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside of the method required holding time, and LCS/LCSD recoveries are within the QC acceptance limits. The hold time had expired prior to the second extraction so all results are reported from the original extract. Similar results were obtained in both extracts.						
<b>GC Petroleum Hydrocarbons</b>						
	<b>SW-846 8015B</b>		<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	
10319	m-Terphenyl	92-06-8	0.079 U	0.079	0.25	1
10319	o-Terphenyl	84-15-1	0.079 U	0.079	0.25	1
10319	p-Terphenyl	92-94-4	0.079 U	0.079	0.25	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	20b Formaldehyde 8315A	SW-846 8315A	1	121730021A	06/22/2012 18:08	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	121730021A	06/22/2012 11:30	Olivia Arosemena	1
10319	22b Terphenyls by 8015B	SW-846 8015B	1	121750007A	06/27/2012 12:57	Tracy A Cole	1
10304	Terphenyls water prep	SW-846 3510C	1	121750007A	06/25/2012 02:15	Sherry L Morrow	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 06/29/12 at 09:46 AM

Group Number: 1317266

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121730021A 20b Formaldehyde 8315A	Sample number(s): 6695325 10 U	10.	50	ug/l	64*	70	69-130	9	30
Batch number: 121750007A m-Terphenyl	Sample number(s): 6695325 0.080 U	0.080	0.25	mg/l	110*	110*	61-108	0	20
o-Terphenyl	0.080 U	0.080	0.25	mg/l	96	96	75-125	0	20
p-Terphenyl	0.080 U	0.080	0.25	mg/l	112*	112*	63-110	0	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20b Formaldehyde 8315A  
Batch number: 121730021A  
Butyraldehyde

6695325	88
Blank	65
LCS	80
LCSD	92

Limits: 45-145

Analysis Name: 22b Terphenyls by 8015B  
Batch number: 121750007A  
n-Triacontane-d62

6695325	118*
Blank	129*
LCS	139*
LCSD	129*

Limits: 46-100

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

13013 6695325 1317266

# SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 6/20/2012

Carrier Name: FedEx

Airbill No: 793704690278

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No: 20120620-02

Cooler #:

Lab:

Lab Phone:

Lancaster

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Other Analysis/Notes
SL-670-SA5C-SB-4.0-5.0	6/19/12 15:20	SO	None	1 - 4 oz glass	10 day	
SL-670-SA5C-SB-0.0-0.5	6/19/12 15:50	SO	None	1 - 4 oz glass	10 day	
FB-062012	6/20/12 15:00	WQ	None	3 - 1 L Amber	10 day	
SL-587-SA5C-SB-4.0-5.0MS	6/20/12 14:05	SO	None	1 - 8 oz glass	10 day	X
SL-887-SA5C-SB-4.0-5.0	6/20/12 14:15	SO	None	1 - 4 oz glass	10 day	X
SL-587-SA5C-SB-8.5-9.5	6/20/12 14:10	SO	None	1 - 4 oz glass	10 day	X
SL-604-SA5C-SB-4.0-5.0	6/20/12 15:10	SO	None	1 - 4 oz glass	10 day	X
SL-628-SA5C-SB-11.5-12.5	6/20/12 11:00	SO	None	1 - 4 oz glass	10 day	X
SL-630-SA5C-SB-8.0-9.0	6/20/12 11:55	SO	None	1 - 4 oz glass	10 day	X
SL-702-SA5C-SB-4.0-5.0	6/18/12 09:57	SO	None	1 - 4 oz glass	10 day	X
SL-702-SA5C-SB-9.0-10.0	6/18/12 10:00	SO	None	1 - 4 oz glass	10 day	X

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>Stephanie</i>	<i>6/20/12</i>									

*Stephanie* 6/20/12 0915

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

July 03, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 06/21/2012  
Group Number: 1317268  
SDG: PH014  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

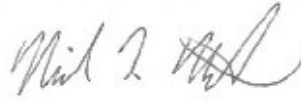
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-670-SA5C-SB-4.0-5.0 Soil	6695330
SL-670-SA5C-SB-0.0-0.5 Soil	6695331
FB-062012 Water	6695332
SL-587-SA5C-SB-4.0-5.0 Soil	6695333
SL-587-SA5C-SB-4.0-5.0MS Soil	6695334
SL-587-SA5C-SB-4.0-5.0MSD Soil	6695335
SL-887-SA5C-SB-4.0-5.0 Soil	6695336
SL-587-SA5C-SB-8.5-9.5 Soil	6695337
SL-628-SA5C-SB-11.5-12.5 Soil	6695339
SL-630-SA5C-SB-8.0-9.0 Soil	6695340
SL-702-SA5C-SB-4.0-5.0 Soil	6695341
SL-702-SA5C-SB-9.0-10.0 Soil	6695342

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Attn: Todd Burgesser

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-670-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-670-SA5C-SB

LLI Sample # SW 6695330  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/19/2012 15:20

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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67045 SDG#: PH014-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	5.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-670-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-670-SA5C-SB

LLI Sample # SW 6695330  
LLI Group # 1317268  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/19/2012 15:20

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Submitted: 06/21/2012 09:15

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67045 SDG#: PH014-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0591	U	0.0591	1.04	1
11031	12378-PeCDD	40321-76-4	0.308	J	0.0406	5.20	1
11031	123478-HxCDD	39227-28-6	0.0298	U	0.0298	5.20	1
11031	123678-HxCDD	57653-85-7	0.0868	JB	0.0324	5.20	1
11031	123789-HxCDD	19408-74-3	0.0728	JB	0.0279	5.20	1
11031	1234678-HpCDD	35822-46-9	0.380	JBQ	0.0381	5.20	1
11031	OCDD	3268-87-9	0.660	JBQ	0.0394	10.4	1
11031	2378-TCDF	51207-31-9	0.233	JB	0.0394	1.04	1
11031	12378-PeCDF	57117-41-6	0.112	JB	0.0262	5.20	1
11031	23478-PeCDF	57117-31-4	0.137	JB	0.0257	5.20	1
11031	123478-HxCDF	70648-26-9	0.0700	JB	0.0190	5.20	1
11031	123678-HxCDF	57117-44-9	0.0577	JBQ	0.0177	5.20	1
11031	123789-HxCDF	72918-21-9	0.0609	JB	0.0189	5.20	1
11031	234678-HxCDF	60851-34-5	0.158	J	0.0172	5.20	1
11031	1234678-HpCDF	67562-39-4	0.0770	JB	0.0166	5.20	1
11031	1234789-HpCDF	55673-89-7	0.112	JB	0.0257	5.20	1
11031	OCDF	39001-02-0	0.135	JBQ	0.0347	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	63	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	70	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	72	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	74	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	78	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	59	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-670-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-670-SA5C-SB

LLI Sample # SW 6695330  
 LLI Group # 1317268  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/19/2012 15:20

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67045 SDG#: PH014-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-670-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-670-SA5C-SB

LLI Sample # SW 6695330  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/19/2012 15:20

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67045 SDG#: PH014-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 18:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-670-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-670-SA5C-SB

LLI Sample # SW 6695331  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/19/2012 15:50

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67005 SDG#: PH014-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-670-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-670-SA5C-SB

LLI Sample # SW 6695331  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/19/2012 15:50

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67005 SDG#: PH014-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.118	J	0.0363	1.06	1
11031	12378-PeCDD	40321-76-4	0.0553	J	0.0308	5.28	1
11031	123478-HxCDD	39227-28-6	0.0389	U	0.0389	5.28	1
11031	123678-HxCDD	57653-85-7	0.228	JB	0.0426	5.28	1
11031	123789-HxCDD	19408-74-3	0.128	JB	0.0403	5.28	1
11031	1234678-HpCDD	35822-46-9	21.5	B	0.0397	5.28	1
11031	OCDD	3268-87-9	107	B	0.0302	10.6	1
11031	2378-TCDF	51207-31-9	0.0638	JBQ	0.0296	1.06	1
11031	12378-PeCDF	57117-41-6	0.0768	JB	0.0191	5.28	1
11031	23478-PeCDF	57117-31-4	0.0856	JB	0.0198	5.28	1
11031	123478-HxCDF	70648-26-9	0.0974	JB	0.0220	5.28	1
11031	123678-HxCDF	57117-44-9	0.0849	JB	0.0199	5.28	1
11031	123789-HxCDF	72918-21-9	0.105	JB	0.0221	5.28	1
11031	234678-HxCDF	60851-34-5	0.0589	J	0.0219	5.28	1
11031	1234678-HpCDF	67562-39-4	0.714	JB	0.0158	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0704	JB	0.0211	5.28	1
11031	OCDF	39001-02-0	2.78	JB	0.0262	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	95	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	80	26 - 138
13C12-OCDF	83	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-670-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-670-SA5C-SB

LLI Sample # SW 6695331  
 LLI Group # 1317268  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/19/2012 15:50

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Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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67005 SDG#: PH014-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-670-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-670-SA5C-SB

LLI Sample # SW 6695331  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/19/2012 15:50

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67005 SDG#: PH014-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 19:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

Sample Description: **FB-062012 Water**  
**SSFL Phase 3 Soil Sampling**  
**FB**

LLI Sample # **WW 6695332**  
 LLI Group # **1317268**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 06/20/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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DFB20 SDG#: PH014-10FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>		<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.589	U	0.589	1.97	1
10915	12378-PeCDD	40321-76-4	0.970	J	0.594	9.83	1
10915	123478-HxCDD	39227-28-6	1.05	J	0.456	9.83	1
10915	123678-HxCDD	57653-85-7	0.520	JB	0.495	9.83	1
10915	123789-HxCDD	19408-74-3	1.98	JBQ	0.588	9.83	1
10915	1234678-HpCDD	35822-46-9	5.33	JBQ	0.755	9.83	1
10915	OCDD	3268-87-9	7.99	JB	0.823	19.7	1
10915	2378-TCDF	51207-31-9	0.359	U	0.359	1.97	1
10915	12378-PeCDF	57117-41-6	0.384	U	0.384	9.83	1
10915	23478-PeCDF	57117-31-4	0.411	JB	0.338	9.83	1
10915	123478-HxCDF	70648-26-9	0.474	JB	0.297	9.83	1
10915	123678-HxCDF	57117-44-9	0.302	U	0.302	9.83	1
10915	123789-HxCDF	72918-21-9	0.284	U	0.284	9.83	1
10915	234678-HxCDF	60851-34-5	0.596	JB	0.286	9.83	1
10915	1234678-HpCDF	67562-39-4	1.40	JBQ	0.282	9.83	1
10915	1234789-HpCDF	55673-89-7	0.589	JBQ	0.437	9.83	1
10915	OCDF	39001-02-0	1.87	JB	0.783	19.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	45	25 - 164
13C12-12378-PeCDD	37	25 - 181
13C12-123478-HxCDD	45	32 - 141
13C12-123678-HxCDD	42	28 - 130
13C12-123789-HxCDD	35	28 - 130
13C12-1234678-HpCDD	25	23 - 140
13C12-OCDD	23	17 - 157
13C12-2378-TCDF	50	24 - 169
13C12-12378-PeCDF	40	24 - 185
13C12-23478-PeCDF	42	21 - 178
13C12-123478-HxCDF	48	26 - 152
13C12-123678-HxCDF	47	26 - 123
13C12-234678-HxCDF	49	28 - 136
13C12-123789-HxCDF	51	29 - 147
13C12-1234678-HpCDF	35	28 - 143
13C12-1234789-HpCDF	26	26 - 138
13C12-OCDF	23	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** FB-062012 Water  
SSFL Phase 3 Soil Sampling  
FB

LLI Sample # WW 6695332  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 15:00

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Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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DFB20 SDG#: PH014-10FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans day	10-15 EPA 1613B	1	12177001	06/27/2012 19:38	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12177001	06/25/2012 10:00	Ginelle L Haines	1

**Sample Description:** SL-587-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695333  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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58745 SDG#: PH014-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-587-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695333  
LLI Group # 1317268  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/20/2012 14:05

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Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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58745 SDG#: PH014-11BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0484 JQ	0.0395	1.12	1
11031	12378-PeCDD	40321-76-4	0.0919 J	0.0345	5.62	1
11031	123478-HxCDD	39227-28-6	0.0420 U	0.0420	5.62	1
11031	123678-HxCDD	57653-85-7	0.515 JB	0.0457	5.62	1
11031	123789-HxCDD	19408-74-3	0.562 JB	0.0417	5.62	1
11031	1234678-HpCDD	35822-46-9	3.44 JB	0.0435	5.62	1
11031	OCDD	3268-87-9	47.8 B	0.0279	11.2	1
11031	2378-TCDF	51207-31-9	0.0382 U	0.0382	1.12	1
11031	12378-PeCDF	57117-41-6	0.195 JBQ	0.0300	5.62	1
11031	23478-PeCDF	57117-31-4	0.117 JB	0.0300	5.62	1
11031	123478-HxCDF	70648-26-9	0.201 JB	0.0288	5.62	1
11031	123678-HxCDF	57117-44-9	0.124 JB	0.0229	5.62	1
11031	123789-HxCDF	72918-21-9	0.414 JB	0.0311	5.62	1
11031	234678-HxCDF	60851-34-5	0.0977 J	0.0299	5.62	1
11031	1234678-HpCDF	67562-39-4	0.548 JB	0.0172	5.62	1
11031	1234789-HpCDF	55673-89-7	0.0583 JBQ	0.0229	5.62	1
11031	OCDF	39001-02-0	1.62 JBQ	0.0382	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	91	26 - 152
13C12-123678-HxCDF	111	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	81	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-587-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695333  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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58745 SDG#: PH014-11BKG

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-587-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695333  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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58745 SDG#: PH014-11BKG

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 20:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-587-SA5C-SB-4.0-5.0MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-587-SA5C-SB

LLI Sample # SW 6695334  
 LLI Group # 1317268  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:05

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58745 SDG#: PH014-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 12.1	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-587-SA5C-SB-4.0-5.0MS Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695334  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

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58745 SDG#: PH014-11MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	23.7	0.0456	1.11	1
11031	12378-PeCDD	40321-76-4	115	0.0449	5.53	1
11031	123478-HxCDD	39227-28-6	114	0.0631	5.53	1
11031	123678-HxCDD	57653-85-7	111	B 0.0623	5.53	1
11031	123789-HxCDD	19408-74-3	120	B 0.0595	5.53	1
11031	1234678-HpCDD	35822-46-9	117	B 0.0672	5.53	1
11031	OCDD	3268-87-9	270	B 0.0396	11.1	1
11031	2378-TCDF	51207-31-9	22.2	B 0.0480	1.11	1
11031	12378-PeCDF	57117-41-6	119	B 0.0446	5.53	1
11031	23478-PeCDF	57117-31-4	113	B 0.0431	5.53	1
11031	123478-HxCDF	70648-26-9	121	B 0.0488	5.53	1
11031	123678-HxCDF	57117-44-9	120	B 0.0362	5.53	1
11031	123789-HxCDF	72918-21-9	122	B 0.0466	5.53	1
11031	234678-HxCDF	60851-34-5	115	B 0.0437	5.53	1
11031	1234678-HpCDF	67562-39-4	110	B 0.0524	5.53	1
11031	1234789-HpCDF	55673-89-7	118	B 0.0590	5.53	1
11031	OCDF	39001-02-0	237	B 0.0439	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	70	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	80	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	71	21 - 178
13C12-123478-HxCDF	93	26 - 152
13C12-123678-HxCDF	118	26 - 123
13C12-234678-HxCDF	94	28 - 136
13C12-123789-HxCDF	97	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	95	26 - 138
13C12-OCDF	90	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-587-SA5C-SB-4.0-5.0MS Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695334  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:05

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58745 SDG#: PH014-11MS

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-587-SA5C-SB-4.0-5.0MS Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695334  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:05

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58745 SDG#: PH014-11MS

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 21:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11625	Moisture CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-587-SA5C-SB-4.0-5.0MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695335  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:05

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58745 SDG#: PH014-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11625	Moisture CDM	n.a.	12.1	0.50	0.50	1
11626	Moisture Duplicate CDM	n.a.	12.1	0.50	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-587-SA5C-SB-4.0-5.0MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695335  
LLI Group # 1317268  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/20/2012 14:05

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58745 SDG#: PH014-11MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
	<b>EPA 1613B</b>					
11031	2378-TCDD	1746-01-6	23.6	0.0537	1.13	1
11031	12378-PeCDD	40321-76-4	115	0.0457	5.65	1
11031	123478-HxCDD	39227-28-6	114	0.0505	5.65	1
11031	123678-HxCDD	57653-85-7	116	0.0542	5.65	1
11031	123789-HxCDD	19408-74-3	120	0.0497	5.65	1
11031	1234678-HpCDD	35822-46-9	121	0.0759	5.65	1
11031	OCDD	3268-87-9	270	0.0344	11.3	1
11031	2378-TCDF	51207-31-9	23.1	0.0536	1.13	1
11031	12378-PeCDF	57117-41-6	123	0.0492	5.65	1
11031	23478-PeCDF	57117-31-4	118	0.0448	5.65	1
11031	123478-HxCDF	70648-26-9	126	0.0588	5.65	1
11031	123678-HxCDF	57117-44-9	124	0.0434	5.65	1
11031	123789-HxCDF	72918-21-9	123	0.0589	5.65	1
11031	234678-HxCDF	60851-34-5	121	0.0532	5.65	1
11031	1234678-HpCDF	67562-39-4	114	0.0579	5.65	1
11031	1234789-HpCDF	55673-89-7	120	0.0702	5.65	1
11031	OCDF	39001-02-0	241	0.0473	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	80	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	81	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	91	26 - 152
13C12-123678-HxCDF	115	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	93	26 - 138
13C12-OCDF	93	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-587-SA5C-SB-4.0-5.0MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695335  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:05

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Submitted: 06/21/2012 09:15

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58745 SDG#: PH014-11MSD

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-587-SA5C-SB-4.0-5.0MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695335  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:05

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58745 SDG#: PH014-11MSD

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 22:30	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11625	Moisture CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1
11626	Moisture Duplicate CDM	EPA 160.3 modified	1	12178162401A	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-887-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-887-SA5C-SB

LLI Sample # SW 6695336  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:15

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88745 SDG#: PH014-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-887-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-887-SA5C-SB

LLI Sample # SW 6695336  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:15

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Submitted: 06/21/2012 09:15

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88745 SDG#: PH014-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0381	U	0.0381	1.14	1
11031	12378-PeCDD	40321-76-4	0.110	J	0.0326	5.71	1
11031	123478-HxCDD	39227-28-6	0.0435	JQ	0.0380	5.71	1
11031	123678-HxCDD	57653-85-7	0.471	JB	0.0432	5.71	1
11031	123789-HxCDD	19408-74-3	0.597	JB	0.0400	5.71	1
11031	1234678-HpCDD	35822-46-9	1.53	JB	0.0383	5.71	1
11031	OCDD	3268-87-9	16.6	B	0.0284	11.4	1
11031	2378-TCDF	51207-31-9	0.0828	JB	0.0326	1.14	1
11031	12378-PeCDF	57117-41-6	0.200	JB	0.0290	5.71	1
11031	23478-PeCDF	57117-31-4	0.164	JB	0.0281	5.71	1
11031	123478-HxCDF	70648-26-9	0.110	JBQ	0.0233	5.71	1
11031	123678-HxCDF	57117-44-9	0.108	JB	0.0190	5.71	1
11031	123789-HxCDF	72918-21-9	0.578	JB	0.0220	5.71	1
11031	234678-HxCDF	60851-34-5	0.0883	JQ	0.0237	5.71	1
11031	1234678-HpCDF	67562-39-4	0.363	JB	0.0295	5.71	1
11031	1234789-HpCDF	55673-89-7	0.123	JBQ	0.0387	5.71	1
11031	OCDF	39001-02-0	0.909	JB	0.0305	11.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	81	28 - 130
13C12-1234678-HpCDD	84	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	99	26 - 152
13C12-123678-HxCDF	118	26 - 123
13C12-234678-HxCDF	94	28 - 136
13C12-123789-HxCDF	110	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	83	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-887-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-887-SA5C-SB

LLI Sample # SW 6695336  
 LLI Group # 1317268  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:15

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88745 SDG#: PH014-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-887-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-887-SA5C-SB

LLI Sample # SW 6695336  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:15

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Submitted: 06/21/2012 09:15

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88745 SDG#: PH014-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/28/2012 23:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401B	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-587-SA5C-SB-8.5-9.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695337  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:10

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58789 SDG#: PH014-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	6.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-587-SA5C-SB-8.5-9.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695337  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:10

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Submitted: 06/21/2012 09:15

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58789 SDG#: PH014-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0392	J	0.0356	1.03	1
11031	12378-PeCDD	40321-76-4	0.0382	J	0.0282	5.17	1
11031	123478-HxCDD	39227-28-6	0.0367	JQ	0.0323	5.17	1
11031	123678-HxCDD	57653-85-7	0.204	JB	0.0344	5.17	1
11031	123789-HxCDD	19408-74-3	0.145	JB	0.0301	5.17	1
11031	1234678-HpCDD	35822-46-9	2.85	JB	0.0398	5.17	1
11031	OCDD	3268-87-9	32.8	B	0.0287	10.3	1
11031	2378-TCDF	51207-31-9	0.0349	U	0.0349	1.03	1
11031	12378-PeCDF	57117-41-6	0.112	JB	0.0234	5.17	1
11031	23478-PeCDF	57117-31-4	0.0897	JBQ	0.0231	5.17	1
11031	123478-HxCDF	70648-26-9	0.0800	JB	0.0211	5.17	1
11031	123678-HxCDF	57117-44-9	0.0609	JB	0.0153	5.17	1
11031	123789-HxCDF	72918-21-9	0.0862	JBQ	0.0196	5.17	1
11031	234678-HxCDF	60851-34-5	0.0521	JQ	0.0189	5.17	1
11031	1234678-HpCDF	67562-39-4	0.515	JBQ	0.0222	5.17	1
11031	1234789-HpCDF	55673-89-7	0.0593	JBQ	0.0323	5.17	1
11031	OCDF	39001-02-0	1.55	JB	0.0279	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	83	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	117	26 - 123
13C12-234678-HxCDF	92	28 - 136
13C12-123789-HxCDF	104	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	83	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-587-SA5C-SB-8.5-9.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695337  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:10

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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58789 SDG#: PH014-13

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-587-SA5C-SB-8.5-9.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-587-SA5C-SB

LLI Sample # SW 6695337  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 14:10

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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58789 SDG#: PH014-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/29/2012 00:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401B	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-628-SA5C-SB-11.5-12.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-628-SA5C-SB

LLI Sample # SW 6695339  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 11:00

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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62811 SDG#: PH014-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-628-SA5C-SB-11.5-12.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-628-SA5C-SB

LLI Sample # SW 6695339  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 11:00

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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62811 SDG#: PH014-14

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0420	U	0.0420	1.09	1
11031	12378-PeCDD	40321-76-4	0.118	J	0.0433	5.43	1
11031	123478-HxCDD	39227-28-6	0.0816	JQ	0.0544	5.43	1
11031	123678-HxCDD	57653-85-7	0.763	JB	0.0594	5.43	1
11031	123789-HxCDD	19408-74-3	0.810	JB	0.0559	5.43	1
11031	1234678-HpCDD	35822-46-9	10.1	B	0.0660	5.43	1
11031	OCDD	3268-87-9	154	B	0.0342	10.9	1
11031	2378-TCDF	51207-31-9	0.0878	JB	0.0500	1.09	1
11031	12378-PeCDF	57117-41-6	0.352	JB	0.0338	5.43	1
11031	23478-PeCDF	57117-31-4	0.159	JBQ	0.0329	5.43	1
11031	123478-HxCDF	70648-26-9	0.185	JBQ	0.0346	5.43	1
11031	123678-HxCDF	57117-44-9	0.138	JB	0.0295	5.43	1
11031	123789-HxCDF	72918-21-9	0.623	JB	0.0280	5.43	1
11031	234678-HxCDF	60851-34-5	0.192	J	0.0342	5.43	1
11031	1234678-HpCDF	67562-39-4	1.07	JB	0.0378	5.43	1
11031	1234789-HpCDF	55673-89-7	0.188	JBQ	0.0497	5.43	1
11031	OCDF	39001-02-0	2.41	JB	0.0373	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	94	26 - 152
13C12-123678-HxCDF	109	26 - 123
13C12-234678-HxCDF	93	28 - 136
13C12-123789-HxCDF	114	29 - 147
13C12-1234678-HpCDF	111	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	86	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-628-SA5C-SB-11.5-12.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-628-SA5C-SB

LLI Sample # SW 6695339  
 LLI Group # 1317268  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 11:00

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62811 SDG#: PH014-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-628-SA5C-SB-11.5-12.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-628-SA5C-SB

LLI Sample # SW 6695339  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 11:00

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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62811 SDG#: PH014-14

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/29/2012 01:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401B	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-630-SA5C-SB-8.0-9.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-630-SA5C-SB

LLI Sample # SW 6695340  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 11:55

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63089 SDG#: PH014-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-630-SA5C-SB-8.0-9.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-630-SA5C-SB

LLI Sample # SW 6695340  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 11:55

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Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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63089 SDG#: PH014-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0669	J	0.0457	1.14	1
11031	12378-PeCDD	40321-76-4	0.101	J	0.0414	5.69	1
11031	123478-HxCDD	39227-28-6	0.133	J	0.0521	5.69	1
11031	123678-HxCDD	57653-85-7	0.429	JB	0.0538	5.69	1
11031	123789-HxCDD	19408-74-3	0.394	JB	0.0517	5.69	1
11031	1234678-HpCDD	35822-46-9	5.96	B	0.0567	5.69	1
11031	OCDD	3268-87-9	97.0	B	0.0356	11.4	1
11031	2378-TCDF	51207-31-9	0.0491	JBQ	0.0450	1.14	1
11031	12378-PeCDF	57117-41-6	0.288	JB	0.0334	5.69	1
11031	23478-PeCDF	57117-31-4	0.230	JB	0.0327	5.69	1
11031	123478-HxCDF	70648-26-9	0.207	JB	0.0363	5.69	1
11031	123678-HxCDF	57117-44-9	0.150	JB	0.0279	5.69	1
11031	123789-HxCDF	72918-21-9	0.260	JB	0.0348	5.69	1
11031	234678-HxCDF	60851-34-5	0.158	J	0.0322	5.69	1
11031	1234678-HpCDF	67562-39-4	1.05	JB	0.0522	5.69	1
11031	1234789-HpCDF	55673-89-7	0.105	JB	0.0596	5.69	1
11031	OCDF	39001-02-0	2.05	JB	0.0328	11.4	1

The recovery for labeled compound 13C12-123678-HxCDF is outside of QC acceptance limits. The data quality is not impacted by this result.

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	97	25 - 164
13C12-12378-PeCDD	99	25 - 181
13C12-123478-HxCDD	107	32 - 141
13C12-123678-HxCDD	103	28 - 130
13C12-123789-HxCDD	102	28 - 130
13C12-1234678-HpCDD	95	23 - 140
13C12-OCDD	103	17 - 157
13C12-2378-TCDF	99	24 - 169
13C12-12378-PeCDF	108	24 - 185
13C12-23478-PeCDF	102	21 - 178
13C12-123478-HxCDF	116	26 - 152
13C12-123678-HxCDF	145	26 - 123
13C12-234678-HxCDF	123	28 - 136
13C12-123789-HxCDF	121	29 - 147
13C12-1234678-HpCDF	113	28 - 143
13C12-1234789-HpCDF	110	26 - 138
13C12-OCDF	104	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration

**Sample Description:** SL-630-SA5C-SB-8.0-9.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-630-SA5C-SB

LLI Sample # SW 6695340  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 11:55

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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63089 SDG#: PH014-15

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
F	Interference is present					
S	Saturation of detection signal					

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**Sample Description:** SL-630-SA5C-SB-8.0-9.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-630-SA5C-SB

LLI Sample # SW 6695340  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/20/2012 11:55

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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63089 SDG#: PH014-15

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/29/2012 02:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401B	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-702-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-702-SA5C-SB

LLI Sample # SW 6695341  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/18/2012 09:57

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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70245 SDG#: PH014-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-702-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-702-SA5C-SB

LLI Sample # SW 6695341  
LLI Group # 1317268  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/18/2012 09:57

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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70245 SDG#: PH014-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0832	J	0.0717	1
11031	12378-PeCDD	40321-76-4	0.132	JQ	0.0498	1
11031	123478-HxCDD	39227-28-6	0.0823	J	0.0370	1
11031	123678-HxCDD	57653-85-7	0.133	JB	0.0400	1
11031	123789-HxCDD	19408-74-3	0.182	JB	0.0363	1
11031	1234678-HpCDD	35822-46-9	0.758	JB	0.0462	1
11031	OCDD	3268-87-9	5.17	JB	0.0398	1
11031	2378-TCDF	51207-31-9	0.0875	JB	0.0408	1
11031	12378-PeCDF	57117-41-6	0.200	JB	0.0356	1
11031	23478-PeCDF	57117-31-4	0.172	JBQ	0.0335	1
11031	123478-HxCDF	70648-26-9	0.153	JBQ	0.0272	1
11031	123678-HxCDF	57117-44-9	0.112	JB	0.0198	1
11031	123789-HxCDF	72918-21-9	0.233	JB	0.0309	1
11031	234678-HxCDF	60851-34-5	0.0852	J	0.0248	1
11031	1234678-HpCDF	67562-39-4	0.190	JBQ	0.0469	1
11031	1234789-HpCDF	55673-89-7	0.119	JB	0.0580	1
11031	OCDF	39001-02-0	0.312	JB	0.0429	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	75	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	89	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	91	26 - 152
13C12-123678-HxCDF	117	26 - 123
13C12-234678-HxCDF	93	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	93	26 - 138
13C12-OCDF	77	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-702-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-702-SA5C-SB

LLI Sample # SW 6695341  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/18/2012 09:57

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Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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70245 SDG#: PH014-16

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-702-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-702-SA5C-SB

LLI Sample # SW 6695341  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/18/2012 09:57

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

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Reported: 07/03/2012 09:15

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70245 SDG#: PH014-16

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/29/2012 03:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401B	06/26/2012 07:20	Scott W Freisher	1

**Sample Description:** SL-702-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-702-SA5C-SB

LLI Sample # SW 6695342  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/18/2012 10:00

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

3201 Jermantown Road

Reported: 07/03/2012 09:15

Suite 400

Fairfax VA 22030

70291 SDG#: PH014-17\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-702-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-702-SA5C-SB

LLI Sample # SW 6695342  
LLI Group # 1317268  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/18/2012 10:00

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

3201 Jermantown Road

Reported: 07/03/2012 09:15

Suite 400

Fairfax VA 22030

70291 SDG#: PH014-17\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0495 JQ	0.0284	1.06	1
11031	12378-PeCDD	40321-76-4	0.0906 J	0.0239	5.31	1
11031	123478-HxCDD	39227-28-6	0.0507 J	0.0188	5.31	1
11031	123678-HxCDD	57653-85-7	0.0784 JB	0.0190	5.31	1
11031	123789-HxCDD	19408-74-3	0.0805 JB	0.0182	5.31	1
11031	1234678-HpCDD	35822-46-9	0.599 JB	0.0195	5.31	1
11031	OCDD	3268-87-9	3.29 JB	0.0168	10.6	1
11031	2378-TCDF	51207-31-9	0.0642 JB	0.0204	1.06	1
11031	12378-PeCDF	57117-41-6	0.112 JBQ	0.0163	5.31	1
11031	23478-PeCDF	57117-31-4	0.0907 JB	0.0155	5.31	1
11031	123478-HxCDF	70648-26-9	0.0848 JBQ	0.0118	5.31	1
11031	123678-HxCDF	57117-44-9	0.0768 JB	0.0109	5.31	1
11031	123789-HxCDF	72918-21-9	0.0430 JBQ	0.0140	5.31	1
11031	234678-HxCDF	60851-34-5	0.0462 J	0.0108	5.31	1
11031	1234678-HpCDF	67562-39-4	0.0899 JBQ	0.00850	5.31	1
11031	1234789-HpCDF	55673-89-7	0.0359 JB	0.0130	5.31	1
11031	OCDF	39001-02-0	0.228 JB	0.0188	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	98	23 - 140
13C12-OCDD	96	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	83	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	116	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	78	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-702-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-702-SA5C-SB

LLI Sample # SW 6695342  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/18/2012 10:00

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

3201 Jermantown Road

Reported: 07/03/2012 09:15

Suite 400

Fairfax VA 22030

70291 SDG#: PH014-17\*

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-702-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-702-SA5C-SB

LLI Sample # SW 6695342  
LLI Group # 1317268  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/18/2012 10:00

CDM Federal Programs Corp.

Submitted: 06/21/2012 09:15

3201 Jermantown Road

Reported: 07/03/2012 09:15

Suite 400

Fairfax VA 22030

70291 SDG#: PH014-17\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12177002	06/30/2012 01:29	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12177002	06/25/2012 14:45	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12178162401B	06/26/2012 07:20	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/03/12 at 09:15 AM

Group Number: 1317268

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12178162401A	Sample number(s): 6695330-6695331,6695333-6695335								
Moisture CDM					100		80-120		
Moisture CDM					100		80-120		
Moisture Duplicate CDM					100		80-120		
Batch number: 12178162401B	Sample number(s): 6695336-6695337,6695339-6695342								
Moisture CDM					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12177001	Sample number(s): 6695332								
2378-TCDD	0.448 U	0.448	2.00	pg/l	101		67-158		
12378-PeCDD	0.305 U	0.305	10.0	pg/l	105		70-142		
123478-HxCDD	0.299 U	0.299	10.0	pg/l	102		70-164		
123678-HxCDD	0.702 J	0.322	10.0	pg/l	103		76-134		
123789-HxCDD	0.722 J	0.291	10.0	pg/l	113		64-162		
1234678-HpCDD	3.07 J	0.321	10.0	pg/l	107		70-140		
OCDD	5.11 J	0.399	20.0	pg/l	108		78-144		
2378-TCDF	0.247 U	0.247	2.00	pg/l	97		75-158		
12378-PeCDF	0.206 U	0.206	10.0	pg/l	110		80-134		
23478-PeCDF	0.415 J	0.188	10.0	pg/l	101		68-160		
123478-HxCDF	0.283 J	0.172	10.0	pg/l	110		72-134		
123678-HxCDF	0.701 J	0.174	10.0	pg/l	110		84-130		
123789-HxCDF	0.535 J	0.177	10.0	pg/l	112		78-130		
234678-HxCDF	0.236 J	0.157	10.0	pg/l	105		70-156		
1234678-HpCDF	0.751 J	0.165	10.0	pg/l	104		82-122		
1234789-HpCDF	0.296 J	0.187	10.0	pg/l	111		78-138		
OCDF	1.09 J	0.360	20.0	pg/l	111		63-170		
Batch number: 12177002	Sample number(s): 6695330-6695331,6695333-6695337,6695339-6695342								
2378-TCDD	0.0363 U	0.0363	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0293 U	0.0293	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0248 U	0.0248	5.00	ng/kg	97		70-164		
123678-HxCDD	0.0480 J	0.0248	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0472 J	0.0233	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.274 J	0.0267	5.00	ng/kg	103		70-140		
OCDD	0.420 J	0.0281	10.0	ng/kg	102		78-144		
2378-TCDF	0.0347 J	0.0276	1.00	ng/kg	101		75-158		
12378-PeCDF	0.0240 J	0.0193	5.00	ng/kg	109		80-134		
23478-PeCDF	0.0720 J	0.0191	5.00	ng/kg	101		68-160		
123478-HxCDF	0.0272 J	0.0155	5.00	ng/kg	108		72-134		
123678-HxCDF	0.0301 J	0.0136	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0353 J	0.0110	5.00	ng/kg	109		78-130		
234678-HpCDF	0.0140 U	0.0140	5.00	ng/kg	105		70-156		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/03/12 at 09:15 AM

Group Number: 1317268

Analysis Name	Blank Result	Blank EDL**	Blank MRL	Report Units	OPR %REC	OPRD %REC	OPR/OPRD Limits	RPD	RPD Max
1234678-HpCDF	0.0730 J	0.0104	5.00	ng/kg	97		82-122		
1234789-HpCDF	0.0329 J	0.0178	5.00	ng/kg	105		78-138		
OCDF	0.143 J	0.0251	10.0	ng/kg	105		63-170		

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 12178162401A	Sample number(s): 6695330-6695331,6695333-6695335 BKG: 6695333							
Moisture CDM					12.1	12.1	0	20
Moisture CDM					12.1	12.1	0	20
Moisture Duplicate CDM					12.1	12.1	0	20
Batch number: 12178162401B	Sample number(s): 6695336-6695337,6695339-6695342 BKG: 6695336							
Moisture CDM					12.9	13.4	4	20
Batch number: 12177002	Sample number(s): 6695330-6695331,6695333-6695337,6695339-6695342 UNSPK: 6695333							
2378-TCDD	107	104	67-158	0	25			
12378-PeCDD	104	102	70-142	0	25			
123478-HxCDD	103	101	70-164	0	25			
123678-HxCDD	100	102	76-134	4	25			
123789-HxCDD	108	105	64-162	0	25			
1234678-HpCDD	103	104	70-140	3	25			
OCDD	101	98	78-144	0	25			
2378-TCDF	100	102	75-158	4	25			
12378-PeCDF	108	109	80-134	3	25			
23478-PeCDF	102	104	68-160	4	25			
123478-HxCDF	110	111	72-134	3	25			
123678-HxCDF	109	110	84-130	3	25			
123789-HxCDF	110	109	78-130	1	25			
234678-HxCDF	104	107	70-156	5	25			
1234678-HpCDF	99	101	82-122	4	25			
1234789-HpCDF	107	106	78-138	1	25			
OCDF	106	106	63-170	2	25			

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b. Dioxins/Furans 10-15 day

Batch number: 12177001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6695332	45	42	48	47	49	51
Blank	81	95	93	91	94	96
OPR	75	75	83	83	84	76
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/03/12 at 09:15 AM

Group Number: 1317268

### Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6695332	35	26	23	37	45	42
Blank	77	77	63	91	87	86
OPR	85	78	78	67	80	76
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6695332	35	25	23	50	40
Blank	86	73	61	88	96
OPR	66	79	78	74	68
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12177002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6695330	63	70	77	80	78	78
6695331	78	81	88	95	86	91
6695333	81	81	91	111	86	84
6695334	69	71	93	118	94	97
6695335	76	79	91	115	90	91
6695336	78	74	99	118	94	110
6695337	73	75	89	117	92	104
6695339	84	87	94	109	93	114
6695340	97	102	116	145*	123	121
6695341	67	74	91	117	93	83
6695342	72	83	83	88	85	77
Blank	70	70	79	87	80	110
MS	69	71	93	118	94	97
MSD	76	79	91	115	90	91
OPR	66	66	74	79	76	76
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6695330	91	64	59	66	74	70
6695331	102	80	83	80	83	81
6695333	101	82	81	83	82	79
6695334	98	95	90	70	80	82
6695335	95	93	93	80	84	82
6695336	107	88	83	77	85	82
6695337	107	83	83	78	83	82
6695339	111	91	86	84	85	83
6695340	113	110	104	99	107	103
6695341	105	93	77	75	84	83
6695342	116	82	78	84	83	84
Blank	103	70	66	74	79	78
MS	98	95	90	70	80	82
MSD	95	93	93	80	84	82
OPR	96	64	62	71	79	76

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/03/12 at 09:15 AM

Group Number: 1317268

### Surrogate Quality Control

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6695330	75	72	67	63	74	
6695331	83	79	88	76	89	
6695333	82	79	90	79	87	
6695334	82	80	92	74	75	
6695335	84	81	96	76	81	
6695336	81	84	90	77	79	
6695337	84	86	91	73	83	
6695339	84	83	96	80	93	
6695340	102	95	103	99	108	
6695341	84	82	89	74	76	
6695342	84	98	96	68	87	
Blank	81	79	75	64	78	
MS	82	80	92	74	75	
MSD	84	81	96	76	81	
OPR	77	75	72	62	71	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

# SSFL Phase 3 Chain of Custody

CDM Smith  
 Date Shipped: 6/20/2012  
 Carrier Name: FedEx  
 Airbill No: 793704690278

No: 20120620-02  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Orexotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 3000/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Ch 7196/7199	PH 9040 (Water)	PH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 3140/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 3000/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes				
SL-670-SA5C-SB-4.0-5.0	6/19/12 15:20	SO	None	1 - 4 oz glass	10 day																																				
SL-670-SA5C-SB-0.0-0.5	6/19/12 15:50	SO	None	1 - 4 oz glass	10 day																																				
FB-062012	6/20/12 15:00	WQ	None	3 - 1 L Amber	10 day								X																												
SL-587-SA5C-SB-4.0-5.0MS	6/20/12 14:05	SO	None	1 - 8 oz glass	10 day																																				
SL-887-SA5C-SB-4.0-5.0	6/20/12 14:15	SO	None	1 - 4 oz glass	10 day																																				
SL-587-SA5C-SB-8.5-9.5	6/20/12 14:10	SO	None	1 - 4 oz glass	10 day																																				
SL-604-SA5C-SB-4.0-5.0	6/20/12 15:10	SO	None	1 - 4 oz glass	10 day																																				
SL-628-SA5C-SB-11.5-12.5	6/20/12 11:00	SO	None	1 - 4 oz glass	10 day																																				
SL-630-SA5C-SB-8.0-9.0	6/20/12 11:55	SO	None	1 - 4 oz glass	10 day																																				
SL-702-SA5C-SB-4.0-5.0	6/18/12 09:57	SO	None	1 - 4 oz glass	10 day																																				
SL-702-SA5C-SB-9.0-10.0	6/18/12 10:00	SO	None	1 - 4 oz glass	10 day																																				

Special Instructions: SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	Stephanie	06/20/2012					/				

Stephanie 6/20/12 0915

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

July 09, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 06/22/2012  
Group Number: 1317752  
SDG: PH015  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

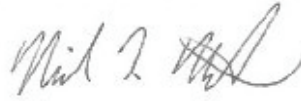
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
EB2-062112 Water	6698357
SL-602-SA5C-SB-4.0-5.0 Soil	6698358
SL-603-SA5C-SB-4.0-5.0 Soil	6698359
SL-599-SA5C-SB-4.0-5.0 Soil	6698360
SL-600-SA5C-SB-4.0-5.0 Soil	6698361
SL-594-SA5C-SB-0.0-0.5 Soil	6698362
SL-594-SA5C-SB-5.0-6.0 Soil	6698363
SL-594-SA5C-SB-9.0-10.0 Soil	6698364

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

Sample Description: **EB2-062112 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB2**

LLI Sample # **WW 6698357**  
 LLI Group # **1317752**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 06/21/2012 15:00

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

3201 Jermantown Road

Reported: 07/09/2012 15:13

Suite 400

Fairfax VA 22030

SEB21 SDG#: PH015-01EB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>		<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.643	U	0.643	1.96	1
10915	12378-PeCDD	40321-76-4	0.622	U	0.622	9.78	1
10915	123478-HxCDD	39227-28-6	0.532	U	0.532	9.78	1
10915	123678-HxCDD	57653-85-7	0.852	JB	0.557	9.78	1
10915	123789-HxCDD	19408-74-3	0.928	JBQ	0.492	9.78	1
10915	1234678-HpCDD	35822-46-9	5.22	JBQ	0.549	9.78	1
10915	OCDD	3268-87-9	8.44	JBQ	0.630	19.6	1
10915	2378-TCDF	51207-31-9	1.31	J	0.430	1.96	1
10915	12378-PeCDF	57117-41-6	0.596	J	0.411	9.78	1
10915	23478-PeCDF	57117-31-4	0.960	JBQ	0.363	9.78	1
10915	123478-HxCDF	70648-26-9	1.62	JBQ	0.305	9.78	1
10915	123678-HxCDF	57117-44-9	0.288	U	0.288	9.78	1
10915	123789-HxCDF	72918-21-9	0.570	JBQ	0.296	9.78	1
10915	234678-HxCDF	60851-34-5	0.270	U	0.270	9.78	1
10915	1234678-HpCDF	67562-39-4	1.23	JB	0.239	9.78	1
10915	1234789-HpCDF	55673-89-7	0.731	JB	0.297	9.78	1
10915	OCDF	39001-02-0	0.914	JBQ	0.549	19.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	54	25 - 164
13C12-12378-PeCDD	47	25 - 181
13C12-123478-HxCDD	48	32 - 141
13C12-123678-HxCDD	47	28 - 130
13C12-123789-HxCDD	53	28 - 130
13C12-1234678-HpCDD	46	23 - 140
13C12-OCDD	45	17 - 157
13C12-2378-TCDF	58	24 - 169
13C12-12378-PeCDF	50	24 - 185
13C12-23478-PeCDF	52	21 - 178
13C12-123478-HxCDF	56	26 - 152
13C12-123678-HxCDF	56	26 - 123
13C12-234678-HxCDF	58	28 - 136
13C12-123789-HxCDF	59	29 - 147
13C12-1234678-HpCDF	53	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	47	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB2-062112 Water  
SSFL Phase 3 Soil Sampling  
EB2

LLI Sample # WW 6698357  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 15:00

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Submitted: 06/22/2012 09:25

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SEB21 SDG#: PH015-01EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans day	10-15 EPA 1613B	1	12177001	06/28/2012 14:44	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12177001	06/25/2012 10:00	Ginelle L Haines	1

**Sample Description:** SL-602-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-602-SA5C-SB

LLI Sample # SW 6698358  
 LLI Group # 1317752  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 11:35

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Submitted: 06/22/2012 09:25

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Reported: 07/09/2012 15:13

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SL602 SDG#: PH015-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-602-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-602-SA5C-SB

LLI Sample # SW 6698358  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 11:35

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Submitted: 06/22/2012 09:25

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Reported: 07/09/2012 15:13

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SL602 SDG#: PH015-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0385 U	0.0385	0.996	1
11031	12378-PeCDD	40321-76-4	0.0313 JBQ	0.0296	4.98	1
11031	123478-HxCDD	39227-28-6	0.0246 U	0.0246	4.98	1
11031	123678-HxCDD	57653-85-7	0.0360 JB	0.0263	4.98	1
11031	123789-HxCDD	19408-74-3	0.0578 JB	0.0250	4.98	1
11031	1234678-HpCDD	35822-46-9	0.480 JB	0.0268	4.98	1
11031	OCDD	3268-87-9	2.17 JB	0.0242	9.96	1
11031	2378-TCDF	51207-31-9	0.0406 JQ	0.0318	0.996	1
11031	12378-PeCDF	57117-41-6	0.0451 JB	0.0177	4.98	1
11031	23478-PeCDF	57117-31-4	0.0196 U	0.0196	4.98	1
11031	123478-HxCDF	70648-26-9	0.0975 JB	0.0180	4.98	1
11031	123678-HxCDF	57117-44-9	0.0848 JB	0.0141	4.98	1
11031	123789-HxCDF	72918-21-9	0.0486 JBQ	0.0194	4.98	1
11031	234678-HxCDF	60851-34-5	0.0521 JB	0.0175	4.98	1
11031	1234678-HpCDF	67562-39-4	0.0581 JBQ	0.00874	4.98	1
11031	1234789-HpCDF	55673-89-7	0.0498 JBQ	0.0179	4.98	1
11031	OCDF	39001-02-0	0.163 JB	0.0393	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	71	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	73	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	59	24 - 169
13C12-12378-PeCDF	87	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	64	29 - 147
13C12-1234678-HpCDF	104	28 - 143
13C12-1234789-HpCDF	53	26 - 138
13C12-OCDF	43	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-602-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-602-SA5C-SB

LLI Sample # SW 6698358  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 11:35

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Submitted: 06/22/2012 09:25

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SL602 SDG#: PH015-02

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-602-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-602-SA5C-SB

LLI Sample # SW 6698358  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 11:35

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Submitted: 06/22/2012 09:25

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SL602 SDG#: PH015-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 01:23	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401A	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-603-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-603-SA5C-SB

LLI Sample # SW 6698359  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 11:05

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

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Reported: 07/09/2012 15:13

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SL603 SDG#: PH015-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-603-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-603-SA5C-SB

LLI Sample # SW 6698359  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 11:05

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

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Reported: 07/09/2012 15:13

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SL603 SDG#: PH015-03

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0442	U	0.0442	1.05	1
11031	12378-PeCDD	40321-76-4	0.125	JB	0.0332	5.25	1
11031	123478-HxCDD	39227-28-6	0.0513	JB	0.0276	5.25	1
11031	123678-HxCDD	57653-85-7	0.111	JB	0.0298	5.25	1
11031	123789-HxCDD	19408-74-3	0.109	JB	0.0293	5.25	1
11031	1234678-HpCDD	35822-46-9	1.57	JB	0.0316	5.25	1
11031	OCDD	3268-87-9	14.1	B	0.0251	10.5	1
11031	2378-TCDF	51207-31-9	0.0339	U	0.0339	1.05	1
11031	12378-PeCDF	57117-41-6	0.0578	JB	0.0220	5.25	1
11031	23478-PeCDF	57117-31-4	0.140	JBQ	0.0242	5.25	1
11031	123478-HxCDF	70648-26-9	0.0575	JB	0.0208	5.25	1
11031	123678-HxCDF	57117-44-9	0.0481	JBQ	0.0169	5.25	1
11031	123789-HxCDF	72918-21-9	0.0387	JB	0.0252	5.25	1
11031	234678-HxCDF	60851-34-5	0.0535	JB	0.0189	5.25	1
11031	1234678-HpCDF	67562-39-4	0.189	JB	0.0121	5.25	1
11031	1234789-HpCDF	55673-89-7	0.0922	JB	0.0283	5.25	1
11031	OCDF	39001-02-0	0.476	JB	0.0383	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	58	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	46	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-603-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-603-SA5C-SB

LLI Sample # SW 6698359  
 LLI Group # 1317752  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 11:05

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

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SL603 SDG#: PH015-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-603-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-603-SA5C-SB

LLI Sample # SW 6698359  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 11:05

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Submitted: 06/22/2012 09:25

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SL603 SDG#: PH015-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 02:20	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401A	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-599-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-599-SA5C-SB

LLI Sample # SW 6698360  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 10:00

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

3201 Jermantown Road

Reported: 07/09/2012 15:13

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SL599 SDG#: PH015-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-599-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-599-SA5C-SB

LLI Sample # SW 6698360  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 10:00

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

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Reported: 07/09/2012 15:13

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SL599 SDG#: PH015-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0635 U	0.0635	1.06	1
11031	12378-PeCDD	40321-76-4	0.0465 U	0.0465	5.32	1
11031	123478-HxCDD	39227-28-6	0.0967 JB	0.0397	5.32	1
11031	123678-HxCDD	57653-85-7	0.123 JBQ	0.0422	5.32	1
11031	123789-HxCDD	19408-74-3	0.0619 JBQ	0.0395	5.32	1
11031	1234678-HpCDD	35822-46-9	0.707 JB	0.0401	5.32	1
11031	OCDD	3268-87-9	3.74 JB	0.0367	10.6	1
11031	2378-TCDF	51207-31-9	0.0499 U	0.0499	1.06	1
11031	12378-PeCDF	57117-41-6	0.0304 U	0.0304	5.32	1
11031	23478-PeCDF	57117-31-4	0.127 JB	0.0304	5.32	1
11031	123478-HxCDF	70648-26-9	0.0496 JB	0.0274	5.32	1
11031	123678-HxCDF	57117-44-9	0.0308 JB	0.0226	5.32	1
11031	123789-HxCDF	72918-21-9	0.201 JB	0.0303	5.32	1
11031	234678-HxCDF	60851-34-5	0.0526 JB	0.0247	5.32	1
11031	1234678-HpCDF	67562-39-4	0.102 JBQ	0.0147	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0716 JB	0.0245	5.32	1
11031	OCDF	39001-02-0	0.181 JB	0.0488	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	64	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	75	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	61	24 - 169
13C12-12378-PeCDF	86	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	67	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	62	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	51	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-599-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-599-SA5C-SB

LLI Sample # SW 6698360  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 10:00

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

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SL599 SDG#: PH015-04

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-599-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-599-SA5C-SB

LLI Sample # SW 6698360  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 10:00

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

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Reported: 07/09/2012 15:13

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SL599 SDG#: PH015-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 03:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401A	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-600-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-600-SA5C-SB

LLI Sample # SW 6698361  
 LLI Group # 1317752  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 09:35

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

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SL600 SDG#: PH015-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	6.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-600-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-600-SA5C-SB

LLI Sample # SW 6698361  
LLI Group # 1317752  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/21/2012 09:35

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Submitted: 06/22/2012 09:25

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SL600 SDG#: PH015-05

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0475	U	0.0475	1.05	1
11031	12378-PeCDD	40321-76-4	0.156	JB	0.0376	5.23	1
11031	123478-HxCDD	39227-28-6	0.0610	JBQ	0.0410	5.23	1
11031	123678-HxCDD	57653-85-7	0.437	JB	0.0438	5.23	1
11031	123789-HxCDD	19408-74-3	0.239	JB	0.0409	5.23	1
11031	1234678-HpCDD	35822-46-9	2.11	JB	0.0359	5.23	1
11031	OCDD	3268-87-9	11.2	B	0.0298	10.5	1
11031	2378-TCDF	51207-31-9	0.0905	J	0.0680	1.05	1
11031	12378-PeCDF	57117-41-6	0.119	JB	0.0374	5.23	1
11031	23478-PeCDF	57117-31-4	0.993	JB	0.0396	5.23	1
11031	123478-HxCDF	70648-26-9	0.176	JB	0.0316	5.23	1
11031	123678-HxCDF	57117-44-9	0.239	JB	0.0280	5.23	1
11031	123789-HxCDF	72918-21-9	0.0358	U	0.0358	5.23	1
11031	234678-HxCDF	60851-34-5	0.381	JB	0.0302	5.23	1
11031	1234678-HpCDF	67562-39-4	0.268	JB	0.0168	5.23	1
11031	1234789-HpCDF	55673-89-7	0.0492	JB	0.0277	5.23	1
11031	OCDF	39001-02-0	0.353	JB	0.0335	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	73	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	94	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	55	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-600-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-600-SA5C-SB

LLI Sample # SW 6698361  
 LLI Group # 1317752  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 09:35

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Submitted: 06/22/2012 09:25

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SL600 SDG#: PH015-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-600-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-600-SA5C-SB

LLI Sample # SW 6698361  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 09:35

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

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Reported: 07/09/2012 15:13

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Fairfax VA 22030

SL600 SDG#: PH015-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 04:13	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401A	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-594-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-594-SA5C-SB

LLI Sample # SW 6698362  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

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Reported: 07/09/2012 15:13

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Fairfax VA 22030

SL594 SDG#: PH015-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-594-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-594-SA5C-SB

LLI Sample # SW 6698362  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

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Reported: 07/09/2012 15:13

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SL594 SDG#: PH015-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0604 JQ	0.0400	1.07	1
11031	12378-PeCDD	40321-76-4	0.102 JBQ	0.0404	5.33	1
11031	123478-HxCDD	39227-28-6	0.238 JB	0.0448	5.33	1
11031	123678-HxCDD	57653-85-7	0.806 JB	0.0476	5.33	1
11031	123789-HxCDD	19408-74-3	0.719 JB	0.0467	5.33	1
11031	1234678-HpCDD	35822-46-9	21.0 B	0.0606	5.33	1
11031	OCDD	3268-87-9	335 B	0.0386	10.7	1
11031	2378-TCDF	51207-31-9	0.131 J	0.0494	1.07	1
11031	12378-PeCDF	57117-41-6	0.117 JB	0.0393	5.33	1
11031	23478-PeCDF	57117-31-4	0.743 JB	0.0346	5.33	1
11031	123478-HxCDF	70648-26-9	0.209 JBQ	0.0316	5.33	1
11031	123678-HxCDF	57117-44-9	0.303 JBQ	0.0283	5.33	1
11031	123789-HxCDF	72918-21-9	0.365 JB	0.0284	5.33	1
11031	234678-HxCDF	60851-34-5	0.381 JB	0.0280	5.33	1
11031	1234678-HpCDF	67562-39-4	1.65 JB	0.0277	5.33	1
11031	1234789-HpCDF	55673-89-7	0.248 JB	0.0324	5.33	1
11031	OCDF	39001-02-0	3.14 JB	0.0303	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	74	23 - 140
13C12-OCDD	65	17 - 157
13C12-2378-TCDF	83	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	88	29 - 147
13C12-1234678-HpCDF	80	28 - 143
13C12-1234789-HpCDF	77	26 - 138
13C12-OCDF	67	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-594-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-594-SA5C-SB

**LLI Sample #** SW 6698362  
**LLI Group #** 1317752  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

3201 Jermantown Road

Reported: 07/09/2012 15:13

Suite 400

Fairfax VA 22030

SL594 SDG#: PH015-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-594-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-594-SA5C-SB

LLI Sample # SW 6698362  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 14:05

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

3201 Jermantown Road

Reported: 07/09/2012 15:13

Suite 400

Fairfax VA 22030

SL594 SDG#: PH015-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 05:10	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401A	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-594-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-594-SA5C-SB

LLI Sample # SW 6698363  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 14:10

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

3201 Jermantown Road

Reported: 07/09/2012 15:13

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Fairfax VA 22030

59456 SDG#: PH015-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-594-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-594-SA5C-SB

LLI Sample # SW 6698363  
LLI Group # 1317752  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/21/2012 14:10

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

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Reported: 07/09/2012 15:13

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59456 SDG#: PH015-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0458 J	0.0454	1.10	1
11031	12378-PeCDD	40321-76-4	0.159 JB	0.0334	5.51	1
11031	123478-HxCDD	39227-28-6	0.0659 JBQ	0.0330	5.51	1
11031	123678-HxCDD	57653-85-7	0.141 JB	0.0345	5.51	1
11031	123789-HxCDD	19408-74-3	0.224 JBQ	0.0324	5.51	1
11031	1234678-HpCDD	35822-46-9	0.589 JB	0.0528	5.51	1
11031	OCDD	3268-87-9	2.17 JB	0.0570	11.0	1
11031	2378-TCDF	51207-31-9	0.0609 J	0.0289	1.10	1
11031	12378-PeCDF	57117-41-6	0.186 JB	0.0205	5.51	1
11031	23478-PeCDF	57117-31-4	0.148 JB	0.0206	5.51	1
11031	123478-HxCDF	70648-26-9	0.0887 JB	0.0198	5.51	1
11031	123678-HxCDF	57117-44-9	0.0900 JB	0.0179	5.51	1
11031	123789-HxCDF	72918-21-9	0.174 JB	0.0207	5.51	1
11031	234678-HxCDF	60851-34-5	0.0753 JB	0.0185	5.51	1
11031	1234678-HpCDF	67562-39-4	0.112 JB	0.0209	5.51	1
11031	1234789-HpCDF	55673-89-7	0.0491 JB	0.0365	5.51	1
11031	OCDF	39001-02-0	0.218 JB	0.0539	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	85	25 - 164
13C12-12378-PeCDD	105	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	71	17 - 157
13C12-2378-TCDF	88	24 - 169
13C12-12378-PeCDF	115	24 - 185
13C12-23478-PeCDF	104	21 - 178
13C12-123478-HxCDF	87	26 - 152
13C12-123678-HxCDF	96	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	102	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	58	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-594-SA5C-SB-5.0-6.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-594-SA5C-SB

LLI Sample # SW 6698363  
 LLI Group # 1317752  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 14:10

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

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Reported: 07/09/2012 15:13

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Fairfax VA 22030

59456 SDG#: PH015-07

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-594-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-594-SA5C-SB

LLI Sample # SW 6698363  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 14:10

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

3201 Jermantown Road

Reported: 07/09/2012 15:13

Suite 400

Fairfax VA 22030

59456 SDG#: PH015-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 06:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401A	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-594-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-594-SA5C-SB

LLI Sample # SW 6698364  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 14:15

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

3201 Jermantown Road

Reported: 07/09/2012 15:13

Suite 400

Fairfax VA 22030

59491 SDG#: PH015-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	16.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-594-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-594-SA5C-SB

LLI Sample # SW 6698364  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 14:15

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

3201 Jermantown Road

Reported: 07/09/2012 15:13

Suite 400

Fairfax VA 22030

59491 SDG#: PH015-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.117 JQ	0.0389	1.20	1
11031	12378-PeCDD	40321-76-4	0.293 JB	0.0327	5.98	1
11031	123478-HxCDD	39227-28-6	0.124 JBQ	0.0310	5.98	1
11031	123678-HxCDD	57653-85-7	0.510 JB	0.0311	5.98	1
11031	123789-HxCDD	19408-74-3	0.898 JB	0.0300	5.98	1
11031	1234678-HpCDD	35822-46-9	0.403 JB	0.0348	5.98	1
11031	OCDD	3268-87-9	0.975 JB	0.0339	12.0	1
11031	2378-TCDF	51207-31-9	0.170 J	0.0286	1.20	1
11031	12378-PeCDF	57117-41-6	0.491 JB	0.0202	5.98	1
11031	23478-PeCDF	57117-31-4	0.264 JB	0.0218	5.98	1
11031	123478-HxCDF	70648-26-9	0.256 JB	0.0218	5.98	1
11031	123678-HxCDF	57117-44-9	0.284 JB	0.0194	5.98	1
11031	123789-HxCDF	72918-21-9	0.854 JB	0.0259	5.98	1
11031	234678-HxCDF	60851-34-5	0.109 JB	0.0206	5.98	1
11031	1234678-HpCDF	67562-39-4	0.111 JB	0.0143	5.98	1
11031	1234789-HpCDF	55673-89-7	0.164 JB	0.0265	5.98	1
11031	OCDF	39001-02-0	0.182 JB	0.0426	12.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	71	23 - 140
13C12-OCDD	62	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	71	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	63	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	56	26 - 138
13C12-OCDF	46	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-594-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-594-SA5C-SB

LLI Sample # SW 6698364  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 14:15

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

3201 Jermantown Road

Reported: 07/09/2012 15:13

Suite 400

Fairfax VA 22030

59491 SDG#: PH015-08

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-594-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-594-SA5C-SB

LLI Sample # SW 6698364  
LLI Group # 1317752  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/21/2012 14:15

CDM Federal Programs Corp.

Submitted: 06/22/2012 09:25

3201 Jermantown Road

Reported: 07/09/2012 15:13

Suite 400

Fairfax VA 22030

59491 SDG#: PH015-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 07:03	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401A	06/29/2012 11:55	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/09/12 at 03:13 PM

Group Number: 1317752

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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Batch number: 12181162401A  
Moisture CDM

Sample number(s): 6698358-6698364

100 80-120

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
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Batch number: 12177001

Sample number(s): 6698357

2378-TCDD	0.448	U	0.448	2.00	pg/l	101	67-158		
12378-PeCDD	0.305	U	0.305	10.0	pg/l	105	70-142		
123478-HxCDD	0.299	U	0.299	10.0	pg/l	102	70-164		
123678-HxCDD	0.702	J	0.322	10.0	pg/l	103	76-134		
123789-HxCDD	0.722	J	0.291	10.0	pg/l	113	64-162		
1234678-HpCDD	3.07	J	0.321	10.0	pg/l	107	70-140		
OCDD	5.11	J	0.399	20.0	pg/l	108	78-144		
2378-TCDF	0.247	U	0.247	2.00	pg/l	97	75-158		
12378-PeCDF	0.206	U	0.206	10.0	pg/l	110	80-134		
23478-PeCDF	0.415	J	0.188	10.0	pg/l	101	68-160		
123478-HxCDF	0.283	J	0.172	10.0	pg/l	110	72-134		
123678-HxCDF	0.701	J	0.174	10.0	pg/l	110	84-130		
123789-HxCDF	0.535	J	0.177	10.0	pg/l	112	78-130		
234678-HxCDF	0.236	J	0.157	10.0	pg/l	105	70-156		
1234678-HpCDF	0.751	J	0.165	10.0	pg/l	104	82-122		
1234789-HpCDF	0.296	J	0.187	10.0	pg/l	111	78-138		
OCDF	1.09	J	0.360	20.0	pg/l	111	63-170		

Batch number: 12181001

Sample number(s): 6698358-6698364

2378-TCDD	0.0385	U	0.0385	1.00	ng/kg	116	67-158		
12378-PeCDD	0.0477	J	0.0242	5.00	ng/kg	109	70-142		
123478-HxCDD	0.0391	J	0.0149	5.00	ng/kg	104	70-164		
123678-HxCDD	0.0319	J	0.0162	5.00	ng/kg	103	76-134		
123789-HxCDD	0.0291	J	0.0153	5.00	ng/kg	109	64-162		
1234678-HpCDD	0.297	J	0.0209	5.00	ng/kg	105	70-140		
OCDD	0.532	J	0.0235	10.0	ng/kg	100	78-144		
2378-TCDF	0.0269	U	0.0269	1.00	ng/kg	107	75-158		
12378-PeCDF	0.0342	J	0.0162	5.00	ng/kg	108	80-134		
23478-PeCDF	0.0630	J	0.0181	5.00	ng/kg	102	68-160		
123478-HxCDF	0.0392	J	0.0125	5.00	ng/kg	107	72-134		
123678-HxCDF	0.0303	J	0.00913	5.00	ng/kg	108	84-130		
123789-HxCDF	0.0261	J	0.0161	5.00	ng/kg	110	78-130		
234678-HxCDF	0.0268	J	0.0105	5.00	ng/kg	105	70-156		
1234678-HpCDF	0.0500	J	0.00748	5.00	ng/kg	100	82-122		
1234789-HpCDF	0.0721	J	0.0198	5.00	ng/kg	103	78-138		
OCDF	0.119	J	0.0451	10.0	ng/kg	108	63-170		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/09/12 at 03:13 PM

Group Number: 1317752

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12181162401A Moisture CDM	Sample number(s): 6698358-6698364 BKG: 6698364 16.4 16.4 0 20								
Batch number: 12181001	Sample number(s): 6698358-6698364 UNSPK: P703562								
2378-TCDD	111	110	67-158	5	25				
12378-PeCDD	113	111	70-142	6	25				
123478-HxCDD	100	103	70-164	1	25				
123678-HxCDD	102	104	76-134	2	25				
123789-HxCDD	108	108	64-162	4	25				
1234678-HpCDD	143*	105	70-140	27*	25				
OCDD	175*	98	78-144	31*	25				
2378-TCDF	105	108	75-158	1	25				
12378-PeCDF	107	108	80-134	3	25				
23478-PeCDF	103	100	68-160	7	25				
123478-HxCDF	105	106	72-134	4	25				
123678-HxCDF	105	105	84-130	4	25				
123789-HxCDF	107	109	78-130	3	25				
234678-HxCDF	104	102	70-156	7	25				
1234678-HpCDF	98	100	82-122	2	25				
1234789-HpCDF	105	106	78-138	3	25				
OCDF	107	106	63-170	5	25				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b. Dioxins/Furans 10-15 day  
Batch number: 12177001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6698357	54	52	56	56	58	59
Blank	81	95	93	91	94	96
OPR	75	75	83	83	84	76
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6698357	53	49	47	47	48	47
Blank	77	77	63	91	87	86
OPR	85	78	78	67	80	76
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/09/12 at 03:13 PM

Group Number: 1317752

### Surrogate Quality Control

6698357	53	46	45	58	50
Blank	86	73	61	88	96
OPR	66	79	78	74	68
Limits:	28-130	23-140	17-157	24-169	24-185

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12181001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6698358	65	76	68	82	67	64
6698359	67	78	68	80	70	58
6698360	64	77	67	77	69	62
6698361	69	81	73	82	73	67
6698362	79	95	80	82	87	88
6698363	85	104	87	96	91	84
6698364	68	80	71	83	73	63
Blank	76	76	67	91	74	53
MS	71	79	74	80	67	57
MSD	68	78	68	79	65	56
OPR	66	77	71	86	76	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6698358	104	53	43	77	73	71
6698359	103	49	46	84	76	76
6698360	92	57	51	84	74	74
6698361	94	63	55	82	73	72
6698362	80	77	67	90	82	78
6698363	102	68	58	105	88	86
6698364	95	56	46	86	77	76
Blank	123	48	39	95	91	91
MS	91	52	41	77	68	67
MSD	90	46	38	77	67	65
OPR	113	56	45	82	80	79
Limits:	28-143	26-138	17-157	25-181	32-141	28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6698358	71	73	65	59	87
6698359	75	74	71	65	92
6698360	75	75	69	61	86
6698361	73	71	69	65	92
6698362	80	74	65	83	94
6698363	87	78	71	88	115
6698364	75	71	62	65	93
Blank	90	88	80	65	98
MS	67	61	58	69	90
MSD	67	61	59	64	92
OPR	82	80	76	65	88
Limits:	28-130	23-140	17-157	24-169	24-185

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

**Quality Control Summary**

Client Name: CDM Federal Programs Corp.  
Reported: 07/09/12 at 03:13 PM

Group Number: 1317752

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

# SSFL Phase 3 Chain of Custody

13013 1317752 6698357-64

CDM Smith

Date Shipped: 6/21/2012

Carrier Name:

Airbill No: 7985 4079 5656

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No:

20120621-02

Cooler #:

Lab:

Lab Phone:

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Ortho Tin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Emeretics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	PH 9040 (Water)	Pesticide Confirm 6850/6860	PH 9045 (Soil)	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes									
EB2-062112	6/21/12 15:00	WQ	None	2 - 1 L Amber	10 day																																									
SL-602-SASC-SB-4.0-5.0	6/21/12 11:35	SO	None	1 - 4 oz glass	10 day																																									
SL-603-SASC-SB-4.0-5.0	6/21/12 11:05	SO	None	1 - 4 oz glass	10 day																																									
SL-599-SASC-SB-4.0-5.0	6/21/12 10:00	SO	None	1 - 4 oz glass	10 day																																									
SL-600-SASC-SB-4.0-5.0	6/21/12 09:35	SO	None	1 - 4 oz glass	10 day																																									
SL-594-SASC-SB-0.0-0.5	6/21/12 14:05	SO	None	1 - 4 oz glass	10 day																																									
SL-594-SASC-SB-5.0-6.0	6/21/12 14:10	SO	None	1 - 4 oz glass	10 day																																									
SL-594-SASC-SB-9.0-10.0	6/21/12 14:15	SO	None	1 - 4 oz glass	10 day																																									

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time		
<del>_____</del>													
<del>_____</del>													
<del>_____</del>													
<del>_____</del>													
									Signature			6/20/12	0935

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

July 03, 2012

Project: SSFL Phase 3 Sampling

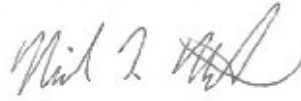
Submittal Date: 06/27/2012  
Group Number: 1318620  
SDG: PT013  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-581-SA5C-SB-4.0-5.0 Soil  
SL-581-SA5C-SB-4.0-5.0 MS Soil  
SL-581-SA5C-SB-4.0-5.0 MSD Soil  
SL-881-SA5C-SB-4.0-5.0 SoilLancaster Labs (LLI) #6703555  
6703556  
6703557  
6703558

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
1 COPY TO      Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-581-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6703555  
LLI Group # 1318620  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/03/2012 11:32

Suite 400

Fairfax VA 22030

SL581 SDG#: PT013-01BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	660 U	660	1,700	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121820005A	07/02/2012 17:41	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121820005A	07/01/2012 11:20	Denise L Trimby	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-581-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6703556  
LLI Group # 1318620  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/03/2012 11:32

Suite 400

Fairfax VA 22030

SL581 SDG#: PT013-01MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	SW-846 8315A		ug/kg	ug/kg	ug/kg	
04173	20a Formaldehyde 8315A	50-00-0	6,100	660	1,700	1
<b>Wet Chemistry</b>						
	EPA 160.3 modified		%	%	%	
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121820005A	07/02/2012 17:51	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121820005A	07/01/2012 11:20	Denise L Trimby	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-581-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6703557  
LLI Group # 1318620  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/03/2012 11:32

Suite 400

Fairfax VA 22030

SL581 SDG#: PT013-01MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	5,900	670	1,700	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11626	28a Moisture Content by 160.3	n.a.	10.9	0.50	0.50	1
The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.						
11625	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121820005A	07/02/2012 18:00	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121820005A	07/01/2012 11:20	Denise L Trimby	1
11626	28a Moisture Content by 160.3	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1
11625	Moisture Content by 160.3	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-881-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-881-SA5C-SB

LLI Sample # SW 6703558  
LLI Group # 1318620  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:33

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/03/2012 11:32

Suite 400

Fairfax VA 22030

SL881 SDG#: PT013-02\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	670 U	670	1,700	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121820005A	07/02/2012 18:10	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121820005A	07/01/2012 11:20	Denise L Trimby	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/03/12 at 11:32 AM

Group Number: 1318620

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121820005A 20a Formaldehyde 8315A	600 U	600.	1,500	ug/kg	102		80-126		
Batch number: 12181162401B 28a Moisture Content by 160.3 Moisture Content by 160.3 Moisture Content by 160.3					100 100 100		80-120 80-120 80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121820005A 20a Formaldehyde 8315A	109	105	80-120	3	50				
Batch number: 12181162401B 28a Moisture Content by 160.3 Moisture Content by 160.3 Moisture Content by 160.3						BKG: 6703555 10.5 10.5 10.5	10.9 10.9 10.9	4 4 4	20 20 20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121820005A  
Butyraldehyde

6703555	78
6703556	82
6703557	88
6703558	84
Blank	81
LCS	96

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/03/12 at 11:32 AM

Group Number: 1318620

### Surrogate Quality Control

MS	82
MSD	88

---

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

acct #13013 Cp #1318620

sample # 6703555-58

### SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 6/26/2012

Carrier Name: FedEx

Airbill No: 793724109481

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No:

20120626-02

Cooler #:

Lab:

Lancaster

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metal Mercury 1630	Oryzalin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenols 8015	Alcohols 8015	GHGs 8015	TPH-EH 8015	TPH-GRO 8015	1,4 Dioxane 8270 SIM	VOCs 8270	Pesticides 8081	Herbicides 8151	Hex C 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6950/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes			
SL-575-SASC-SB-4.0-5.0	6/25/12 10:30	SO	None	1 - 55-Sleeve	10 day																																			
SL-515-SASC-SB-4.0-5.0	6/25/12 14:45	SO	None	1 - 55-Sleeve	10 day																																			
SL-515-SASC-SB-9.0-10.0	6/25/12 15:30	SO	None	1 - 55-Sleeve	10 day																																			
SL-581-SASC-SB-4.0-5.0MS	6/26/12 10:31	SO	None	1 - 55-Sleeve	10 day																																		ms/med	
SL-881-SASC-SB-4.0-5.0	6/26/12 10:33	SO	None	1 - 55-Sleeve	10 day																																			

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>Stacy Mysel</i>	<i>6/26/12</i>									
									<i>Burley</i>	<i>6-29-12</i>	<i>925</i>

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

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Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

July 10, 2012

Project: SSFL Phase 3 Sampling

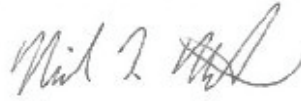
Submittal Date: 06/27/2012  
Group Number: 1318621  
SDG: PH015  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-575-SA5C-SB-4.0-5.0 Soil  
SL-515-SA5C-SB-4.0-5.0 Soil  
SL-515-SA5C-SB-9.0-10.0 Soil  
SL-581-SA5C-SB-4.0-5.0 Soil  
SL-581-SA5C-SB-4.0-5.0 MS Soil  
SL-581-SA5C-SB-4.0-5.0 MSD Soil  
SL-881-SA5C-SB-4.0-5.0 SoilLancaster Labs (LLI) #6703559  
6703560  
6703561  
6703562  
6703563  
6703564  
6703565

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
ELECTRONIC COPY TO  
CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-575-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-575-SA5C-SB

LLI Sample # SW 6703559  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/25/2012 10:30

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

Suite 400

Fairfax VA 22030

H1509 SDG#: PH015-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-575-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-575-SA5C-SB

LLI Sample # SW 6703559  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/25/2012 10:30

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

Suite 400

Fairfax VA 22030

H1509 SDG#: PH015-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0401	U	0.0401	1.08	1
11031	12378-PeCDD	40321-76-4	0.128	JB	0.0281	5.41	1
11031	123478-HxCDD	39227-28-6	0.137	JB	0.0298	5.41	1
11031	123678-HxCDD	57653-85-7	0.144	JBQ	0.0335	5.41	1
11031	123789-HxCDD	19408-74-3	0.174	JB	0.0301	5.41	1
11031	1234678-HpCDD	35822-46-9	2.34	JB	0.0383	5.41	1
11031	OCDD	3268-87-9	38.4	B	0.0299	10.8	1
11031	2378-TCDF	51207-31-9	0.108	J	0.0405	1.08	1
11031	12378-PeCDF	57117-41-6	0.358	JB	0.0280	5.41	1
11031	23478-PeCDF	57117-31-4	0.228	JB	0.0266	5.41	1
11031	123478-HxCDF	70648-26-9	0.181	JB	0.0186	5.41	1
11031	123678-HxCDF	57117-44-9	0.104	JB	0.0173	5.41	1
11031	123789-HxCDF	72918-21-9	0.0681	JB	0.0206	5.41	1
11031	234678-HxCDF	60851-34-5	0.0808	JBQ	0.0190	5.41	1
11031	1234678-HpCDF	67562-39-4	0.349	JB	0.0149	5.41	1
11031	1234789-HpCDF	55673-89-7	0.0528	JBQ	0.0259	5.41	1
11031	OCDF	39001-02-0	0.990	JB	0.0307	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	66	28 - 130
13C12-123789-HxCDD	69	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	57	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	70	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	47	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-575-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-575-SA5C-SB

LLI Sample # SW 6703559  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/25/2012 10:30

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

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H1509 SDG#: PH015-09

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-575-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-575-SA5C-SB

LLI Sample # SW 6703559  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/25/2012 10:30

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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Reported: 07/10/2012 07:51

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H1509 SDG#: PH015-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 08:00	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-515-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-515-SA5C-SB

LLI Sample # SW 6703560  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/25/2012 14:45

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

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H1510 SDG#: PH015-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-515-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-515-SA5C-SB

LLI Sample # SW 6703560  
LLI Group # 1318621  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/25/2012 14:45

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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H1510 SDG#: PH015-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.120 J	0.0414	1.12	1
11031	12378-PeCDD	40321-76-4	0.115 JB	0.0339	5.59	1
11031	123478-HxCDD	39227-28-6	0.0513 JB	0.0240	5.59	1
11031	123678-HxCDD	57653-85-7	0.0908 JB	0.0262	5.59	1
11031	123789-HxCDD	19408-74-3	0.120 JB	0.0239	5.59	1
11031	1234678-HpCDD	35822-46-9	0.605 JB	0.0324	5.59	1
11031	OCDD	3268-87-9	4.26 JB	0.0317	11.2	1
11031	2378-TCDF	51207-31-9	0.0639 J	0.0351	1.12	1
11031	12378-PeCDF	57117-41-6	0.0865 JB	0.0232	5.59	1
11031	23478-PeCDF	57117-31-4	0.121 JB	0.0226	5.59	1
11031	123478-HxCDF	70648-26-9	0.0727 JB	0.0189	5.59	1
11031	123678-HxCDF	57117-44-9	0.0682 JB	0.0158	5.59	1
11031	123789-HxCDF	72918-21-9	0.128 JB	0.0190	5.59	1
11031	234678-HxCDF	60851-34-5	0.0996 JB	0.0160	5.59	1
11031	1234678-HpCDF	67562-39-4	0.103 JB	0.0105	5.59	1
11031	1234789-HpCDF	55673-89-7	0.194 JB	0.0216	5.59	1
11031	OCDF	39001-02-0	0.250 JB	0.0365	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	80	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	67	17 - 157
13C12-2378-TCDF	67	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	50	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-515-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-515-SA5C-SB

**LLI Sample #** SW 6703560  
**LLI Group #** 1318621  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/25/2012 14:45

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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H1510 SDG#: PH015-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-515-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-515-SA5C-SB

LLI Sample # SW 6703560  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/25/2012 14:45

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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Reported: 07/10/2012 07:51

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Fairfax VA 22030

H1510 SDG#: PH015-10

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 11:59	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-515-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-515-SA5C-SB

LLI Sample # SW 6703561  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/25/2012 15:30

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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Reported: 07/10/2012 07:51

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H1511 SDG#: PH015-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-515-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-515-SA5C-SB

LLI Sample # SW 6703561  
LLI Group # 1318621  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/25/2012 15:30

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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Reported: 07/10/2012 07:51

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H1511 SDG#: PH015-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0462 U	0.0462	1.10	1
11031	12378-PeCDD	40321-76-4	0.0625 JB	0.0305	5.50	1
11031	123478-HxCDD	39227-28-6	0.0228 U	0.0228	5.50	1
11031	123678-HxCDD	57653-85-7	0.0449 JB	0.0243	5.50	1
11031	123789-HxCDD	19408-74-3	0.0379 JBQ	0.0226	5.50	1
11031	1234678-HpCDD	35822-46-9	0.624 JB	0.0305	5.50	1
11031	OCDD	3268-87-9	4.52 JB	0.0296	11.0	1
11031	2378-TCDF	51207-31-9	0.0627 J	0.0351	1.10	1
11031	12378-PeCDF	57117-41-6	0.0435 JBQ	0.0217	5.50	1
11031	23478-PeCDF	57117-31-4	0.0497 JB	0.0217	5.50	1
11031	123478-HxCDF	70648-26-9	0.0328 JB	0.0148	5.50	1
11031	123678-HxCDF	57117-44-9	0.0172 JB	0.0121	5.50	1
11031	123789-HxCDF	72918-21-9	0.0271 JB	0.0183	5.50	1
11031	234678-HxCDF	60851-34-5	0.101 JB	0.0135	5.50	1
11031	1234678-HpCDF	67562-39-4	0.0904 JB	0.0111	5.50	1
11031	1234789-HpCDF	55673-89-7	0.117 JB	0.0219	5.50	1
11031	OCDF	39001-02-0	0.229 JB	0.0343	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	70	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	71	28 - 130
13C12-1234678-HpCDD	62	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	69	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	89	28 - 143
13C12-1234789-HpCDF	49	26 - 138
13C12-OCDF	42	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-515-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-515-SA5C-SB

LLI Sample # SW 6703561  
 LLI Group # 1318621  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/25/2012 15:30

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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H1511 SDG#: PH015-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-515-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-515-SA5C-SB

LLI Sample # SW 6703561  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/25/2012 15:30

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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Reported: 07/10/2012 07:51

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H1511 SDG#: PH015-11

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 12:56	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-581-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6703562  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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Reported: 07/10/2012 07:51

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H1512 SDG#: PH015-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 10.5	% 0.50	% 0.50	1

**Sample Description:** SL-581-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6703562  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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Reported: 07/10/2012 07:51

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H1512 SDG#: PH015-12BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>		
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>		
11031	2378-TCDD	1746-01-6	0.0518	U	0.0518	1.06	1
11031	12378-PeCDD	40321-76-4	0.218	JB	0.0617	5.32	1
11031	123478-HxCDD	39227-28-6	0.401	JB	0.0491	5.32	1
11031	123678-HxCDD	57653-85-7	1.80	JB	0.0504	5.32	1
11031	123789-HxCDD	19408-74-3	1.05	JB	0.0491	5.32	1
11031	1234678-HpCDD	35822-46-9	37.1	B	0.0581	5.32	1
11031	OCDD	3268-87-9	286	B	0.0390	10.6	1
11031	2378-TCDF	51207-31-9	0.0963	J	0.0363	1.06	1
11031	12378-PeCDF	57117-41-6	0.0847	JB	0.0236	5.32	1
11031	23478-PeCDF	57117-31-4	0.102	JB	0.0245	5.32	1
11031	123478-HxCDF	70648-26-9	0.324	JB	0.0277	5.32	1
11031	123678-HxCDF	57117-44-9	0.183	JB	0.0242	5.32	1
11031	123789-HxCDF	72918-21-9	0.0878	JB	0.0314	5.32	1
11031	234678-HxCDF	60851-34-5	0.268	JB	0.0273	5.32	1
11031	1234678-HpCDF	67562-39-4	4.15	JB	0.0205	5.32	1
11031	1234789-HpCDF	55673-89-7	0.553	JB	0.0391	5.32	1
11031	OCDF	39001-02-0	11.2	B	0.0392	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	72	28 - 130
13C12-1234678-HpCDD	67	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	70	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	71	28 - 136
13C12-123789-HxCDF	65	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	54	26 - 138
13C12-OCDF	43	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-581-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6703562  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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Reported: 07/10/2012 07:51

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H1512 SDG#: PH015-12BKG

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-581-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6703562  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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Reported: 07/10/2012 07:51

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Fairfax VA 22030

H1512 SDG#: PH015-12BKG

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 13:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-581-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6703563  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

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Reported: 07/10/2012 07:51

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Fairfax VA 22030

H1512 SDG#: PH015-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 10.5	% 0.50	% 0.50	1

**Sample Description:** SL-581-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6703563  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

Suite 400

Fairfax VA 22030

H1512 SDG#: PH015-12MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	24.8		0.0707	1.11	1
11031	12378-PeCDD	40321-76-4	126	B	0.0838	5.56	1
11031	123478-HxCDD	39227-28-6	112	B	0.0616	5.56	1
11031	123678-HxCDD	57653-85-7	115	B	0.0655	5.56	1
11031	123789-HxCDD	19408-74-3	121	B	0.0617	5.56	1
11031	1234678-HpCDD	35822-46-9	196	B	0.0913	5.56	1
11031	OCDD	3268-87-9	675	B	0.0477	11.1	1
11031	2378-TCDF	51207-31-9	23.4		0.0504	1.11	1
11031	12378-PeCDF	57117-41-6	119	B	0.0413	5.56	1
11031	23478-PeCDF	57117-31-4	115	B	0.0418	5.56	1
11031	123478-HxCDF	70648-26-9	118	B	0.0562	5.56	1
11031	123678-HxCDF	57117-44-9	116	B	0.0504	5.56	1
11031	123789-HxCDF	72918-21-9	119	B	0.0744	5.56	1
11031	234678-HxCDF	60851-34-5	117	B	0.0559	5.56	1
11031	1234678-HpCDF	67562-39-4	113	B	0.0376	5.56	1
11031	1234789-HpCDF	55673-89-7	117	B	0.0717	5.56	1
11031	OCDF	39001-02-0	250	B	0.0579	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	68	32 - 141
13C12-123678-HxCDD	67	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	58	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	67	28 - 136
13C12-123789-HxCDF	57	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	52	26 - 138
13C12-OCDF	41	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-581-SA5C-SB-4.0-5.0 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-581-SA5C-SB

LLI Sample # SW 6703563  
 LLI Group # 1318621  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

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Fairfax VA 22030

H1512 SDG#: PH015-12MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-581-SA5C-SB-4.0-5.0 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-581-SA5C-SB

**LLI Sample #** SW 6703563  
**LLI Group #** 1318621  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

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Fairfax VA 22030

H1512 SDG#: PH015-12MS

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 14:49	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-581-SA5C-SB-4.0-5.0 MSD Soil  
 SSFL Phase 3 Soil Sampling  
 SL-581-SA5C-SB

LLI Sample # SW 6703564  
 LLI Group # 1318621  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

Suite 400

Fairfax VA 22030

H1512 SDG#: PH015-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 10.5	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

Sample Description: SL-581-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6703564  
LLI Group # 1318621  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

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H1512 SDG#: PH015-12MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	23.5		0.0669	1.07	1
11031	12378-PeCDD	40321-76-4	119	B	0.0862	5.35	1
11031	123478-HxCDD	39227-28-6	110	B	0.0558	5.35	1
11031	123678-HxCDD	57653-85-7	113	B	0.0591	5.35	1
11031	123789-HxCDD	19408-74-3	116	B	0.0535	5.35	1
11031	1234678-HpCDD	35822-46-9	149	B	0.0715	5.35	1
11031	OCDD	3268-87-9	496	B	0.0439	10.7	1
11031	2378-TCDF	51207-31-9	23.3		0.0498	1.07	1
11031	12378-PeCDF	57117-41-6	115	B	0.0366	5.35	1
11031	23478-PeCDF	57117-31-4	107	B	0.0392	5.35	1
11031	123478-HxCDF	70648-26-9	113	B	0.0523	5.35	1
11031	123678-HxCDF	57117-44-9	112	B	0.0445	5.35	1
11031	123789-HxCDF	72918-21-9	116	B	0.0669	5.35	1
11031	234678-HxCDF	60851-34-5	109	B	0.0492	5.35	1
11031	1234678-HpCDF	67562-39-4	111	B	0.0363	5.35	1
11031	1234789-HpCDF	55673-89-7	114	B	0.0751	5.35	1
11031	OCDF	39001-02-0	238	B	0.0538	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	68	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	65	28 - 130
13C12-123789-HxCDD	67	28 - 130
13C12-1234678-HpCDD	61	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	64	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	65	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	46	26 - 138
13C12-OCDF	38	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-581-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6703564  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

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Fairfax VA 22030

H1512 SDG#: PH015-12MSD

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-581-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-581-SA5C-SB

LLI Sample # SW 6703564  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:31

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

Suite 400

Fairfax VA 22030

H1512 SDG#: PH015-12MSD

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 15:46	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-881-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-881-SA5C-SB

LLI Sample # SW 6703565  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:33

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

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H1513 SDG#: PH015-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 11.2	% 0.50	% 0.50	1

Sample Description: SL-881-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-881-SA5C-SB

LLI Sample # SW 6703565  
LLI Group # 1318621  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 06/26/2012 10:33

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

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Fairfax VA 22030

H1513 SDG#: PH015-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0614	U	0.0614	1.11	1
11031	12378-PeCDD	40321-76-4	0.119	JB	0.0497	5.54	1
11031	123478-HxCDD	39227-28-6	0.268	JB	0.0456	5.54	1
11031	123678-HxCDD	57653-85-7	0.915	JB	0.0474	5.54	1
11031	123789-HxCDD	19408-74-3	0.608	JB	0.0438	5.54	1
11031	1234678-HpCDD	35822-46-9	18.4	B	0.0531	5.54	1
11031	OCDD	3268-87-9	128	B	0.0306	11.1	1
11031	2378-TCDF	51207-31-9	0.0572	J	0.0401	1.11	1
11031	12378-PeCDF	57117-41-6	0.0781	JB	0.0208	5.54	1
11031	23478-PeCDF	57117-31-4	0.188	JB	0.0218	5.54	1
11031	123478-HxCDF	70648-26-9	0.280	JB	0.0286	5.54	1
11031	123678-HxCDF	57117-44-9	0.196	JB	0.0238	5.54	1
11031	123789-HxCDF	72918-21-9	0.0782	JB	0.0305	5.54	1
11031	234678-HxCDF	60851-34-5	0.112	JBQ	0.0243	5.54	1
11031	1234678-HpCDF	67562-39-4	1.50	JB	0.0182	5.54	1
11031	1234789-HpCDF	55673-89-7	0.190	JB	0.0319	5.54	1
11031	OCDF	39001-02-0	3.93	JB	0.0342	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	67	32 - 141
13C12-123678-HxCDD	69	28 - 130
13C12-123789-HxCDD	70	28 - 130
13C12-1234678-HpCDD	63	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	63	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	72	26 - 123
13C12-234678-HxCDF	66	28 - 136
13C12-123789-HxCDF	60	29 - 147
13C12-1234678-HpCDF	85	28 - 143
13C12-1234789-HpCDF	51	26 - 138
13C12-OCDF	43	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-881-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-881-SA5C-SB

**LLI Sample #** SW 6703565  
**LLI Group #** 1318621  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:33

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

Suite 400

Fairfax VA 22030

H1513 SDG#: PH015-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-881-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-881-SA5C-SB

LLI Sample # SW 6703565  
LLI Group # 1318621  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 10:33

CDM Federal Programs Corp.

Submitted: 06/27/2012 09:25

3201 Jermantown Road

Reported: 07/10/2012 07:51

Suite 400

Fairfax VA 22030

H1513 SDG#: PH015-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12181001	07/03/2012 16:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12181001	06/29/2012 12:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/10/12 at 07:51 AM

Group Number: 1318621

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12181162401B	Sample number(s): 6703559-6703565								
Moisture CDM					100		80-120		
Moisture CDM					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12181001	Sample number(s): 6703559-6703565								
2378-TCDD	0.0385 U	0.0385	1.00	ng/kg	116		67-158		
12378-PeCDD	0.0477 J	0.0242	5.00	ng/kg	109		70-142		
123478-HxCDD	0.0391 J	0.0149	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0319 J	0.0162	5.00	ng/kg	103		76-134		
123789-HxCDD	0.0291 J	0.0153	5.00	ng/kg	109		64-162		
1234678-HpCDD	0.297 J	0.0209	5.00	ng/kg	105		70-140		
OCDD	0.532 J	0.0235	10.0	ng/kg	100		78-144		
2378-TCDF	0.0269 U	0.0269	1.00	ng/kg	107		75-158		
12378-PeCDF	0.0342 J	0.0162	5.00	ng/kg	108		80-134		
23478-PeCDF	0.0630 J	0.0181	5.00	ng/kg	102		68-160		
123478-HxCDF	0.0392 J	0.0125	5.00	ng/kg	107		72-134		
123678-HxCDF	0.0303 J	0.00913	5.00	ng/kg	108		84-130		
123789-HxCDF	0.0261 J	0.0161	5.00	ng/kg	110		78-130		
234678-HxCDF	0.0268 J	0.0105	5.00	ng/kg	105		70-156		
1234678-HpCDF	0.0500 J	0.00748	5.00	ng/kg	100		82-122		
1234789-HpCDF	0.0721 J	0.0198	5.00	ng/kg	103		78-138		
OCDF	0.119 J	0.0451	10.0	ng/kg	108		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12181162401B	Sample number(s): 6703559-6703565					BKG: P703555			
Moisture CDM						10.5	10.9	4	20
Moisture CDM						10.5	10.9	4	20
Batch number: 12181001	Sample number(s): 6703559-6703565					UNSPK: 6703562			
2378-TCDD	111	110	67-158	5	25				
12378-PeCDD	113	111	70-142	6	25				
123478-HxCDD	100	103	70-164	1	25				
123678-HxCDD	102	104	76-134	2	25				

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/10/12 at 07:51 AM

Group Number: 1318621

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
123789-HxCDD	108	108	64-162	4	25				
1234678-HpCDD	143*	105	70-140	27*	25				
OCDD	175*	98	78-144	31*	25				
2378-TCDF	105	108	75-158	1	25				
12378-PeCDF	107	108	80-134	3	25				
23478-PeCDF	103	100	68-160	7	25				
123478-HxCDF	105	106	72-134	4	25				
123678-HxCDF	105	105	84-130	4	25				
123789-HxCDF	107	109	78-130	3	25				
234678-HxCDF	104	102	70-156	7	25				
1234678-HpCDF	98	100	82-122	2	25				
1234789-HpCDF	105	106	78-138	3	25				
OCDF	107	106	63-170	5	25				

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a. Dioxins/Furans 10-15 day

Batch number: 12181001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6703559	69	81	75	77	70	70
6703560	72	81	70	81	77	71
6703561	65	80	70	79	69	57
6703562	75	80	70	77	71	65
6703563	71	79	74	80	67	57
6703564	68	78	68	79	65	56
6703565	69	79	61	72	66	60
Blank	76	76	67	91	74	53
MS	71	79	74	80	67	57
MSD	68	78	68	79	65	56
OPR	66	77	71	86	76	68
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6703559	84	55	47	83	67	66
6703560	99	57	50	82	79	78
6703561	89	49	42	84	70	69
6703562	90	54	43	85	75	74
6703563	91	52	41	77	68	67
6703564	90	46	38	77	67	65
6703565	85	51	43	82	67	69
Blank	123	48	39	95	91	91
MS	91	52	41	77	68	67
MSD	90	46	38	77	67	65
OPR	113	56	45	82	80	79

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/10/12 at 07:51 AM

Group Number: 1318621

### Surrogate Quality Control

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6703559	69	63	57	69	88	
6703560	80	76	67	67	93	
6703561	71	62	59	65	92	
6703562	72	67	59	69	88	
6703563	67	61	58	69	90	
6703564	67	61	59	64	92	
6703565	70	63	59	63	91	
Blank	90	88	80	65	98	
MS	67	61	58	69	90	
MSD	67	61	59	64	92	
OPR	82	80	76	65	88	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct# 13013 Cup# 1318621

sample# 6703559-65

### SSFL Phase 3 Chain of Custody

CDM Smith  
 Date Shipped: 6/26/2012  
 Carrier Name: FedEx  
 Airbill No: 793724109481

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120626-02  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Mercurals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 300.0/9056	TIC 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	PCBS/PCIS 8082	Dioxins 1613	Perchlorate 314.0/331	Perchlorate Confirm 6850/6860	pH 9045 (Soil)	pH 9040 (Water)	Hex C 7196/7199	Pesticides 8081	Herbicides 8151	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex C 7196/7199	pH 9045 (Soil)	pH 9040 (Water)	Alcohols 8015	Silycols 8015	TPH-EFH 8015	TPH-GRQ 8015	1,4 Dioxane 8260 SIM	Energetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Olefinolfin	Methyl Mercury 1630	Other Analysis/Notes		
SL-575-SA5C-SB-4.0-5.0	6/25/12 10:30	SO	None	1 - 55-Sleeve	10 day								X																													
SL-515-SA5C-SB-4.0-5.0	6/25/12 14:45	SO	None	1 - 55-Sleeve	10 day								X																													
SL-515-SA5C-SB-9.0-10.0	6/25/12 15:30	SO	None	1 - 55-Sleeve	10 day								X																													
SL-581-SA5C-SB-4.0-5.0MS	6/26/12 10:31	SO	None	1 - 55-Sleeve	10 day								X																												ms/msd	
SL-881-SA5C-SB-4.0-5.0	6/26/12 10:33	SO	None	1 - 55-Sleeve	10 day								X																													

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

items/Reason	Relinquished by	Date	Received by	Date	Time	items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>SL-575 SA5C SB-4.0-5.0</i>	<i>6/26/12</i>									
									<i>Burns</i>	<i>6-29-12</i>	<i>925</i>

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

July 03, 2012

Project: SSFL Phase 3 Sampling

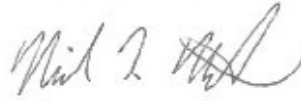
Submittal Date: 06/29/2012  
Group Number: 1319173  
SDG: PT014  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionEB-062812 Water  
SL-501-SA5C-SB-4.0-5.0 SoilLancaster Labs (LLI) #6706204  
6706205

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
1 COPY TO      Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** EB-062812 Water  
SSFL Phase 3 Soil Sampling  
EB

LLI Sample # WW 6706204  
LLI Group # 1319173  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/28/2012 15:15

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/03/2012 11:33

Suite 400

Fairfax VA 22030

EB628 SDG#: PT014-01EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	ug/l	ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10 U	10	50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	20b Formaldehyde 8315A	SW-846 8315A	1	121820002A	07/02/2012 16:49	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	121820002A	07/01/2012 11:10	Olivia Arosemena	1

**Sample Description:** SL-501-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-501-SA5C-SB

LLI Sample # SW 6706205  
LLI Group # 1319173  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/28/2012 09:00

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/03/2012 11:33

Suite 400

Fairfax VA 22030

SL501 SDG#: PT014-02\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	660 U	660	1,700	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121820005A	07/02/2012 18:19	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121820005A	07/01/2012 11:20	Denise L Trimby	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

\*=This limit was used in the evaluation of the final result

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/03/12 at 11:33 AM

Group Number: 1319173

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121820002A 20b Formaldehyde 8315A	Sample number(s): 6706204 13	J 10.	50	ug/l	90	96	69-130	6	30
Batch number: 121820005A 20a Formaldehyde 8315A	Sample number(s): 6706205 600 U	600.	1,500	ug/kg	102		80-126		
Batch number: 12181162401B Moisture Content by 160.3	Sample number(s): 6706205				100		80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121820005A 20a Formaldehyde 8315A	Sample number(s): 6706205 109	105	80-120	3	50	UNSPK: P703555			
Batch number: 12181162401B Moisture Content by 160.3	Sample number(s): 6706205					BKG: P703555	10.5	10.9	4

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20b Formaldehyde 8315A  
Batch number: 121820002A  
Butyraldehyde

---

6706204	91
Blank	117
LCS	111
LCSD	114

---

Limits: 45-145

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/03/12 at 11:33 AM

Group Number: 1319173

### Surrogate Quality Control

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121820005A  
Butyraldehyde

---

6706205	85
Blank	81
LCS	96
MS	82
MSD	88

---

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

13013 1319173 6706204-05

### SSFL Phase 3 Chain of Custody

CDM Smith

No:

20120628-02

Date Shipped: 6/28/2012

Contact Name: Pam Hartman

Cooler #:

Carrier Name: FedEx

Contact Phone: (818)466-8007

Lab:

Lancaster

Airbill No:

193733712651

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metal Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetic 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8280 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex C 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes			
EB-062812	6/28/12 15:15	WQ	None	3 - 1L amber	10 day				X																															
SL-578-SA5C-SB-4.0-5.0	6/27/12 10:15	SD	None	1 - 55-Sleeve	10 day																																			
SL-747-SA5C-SB-2.5-3.5	6/26/12 14:01	SD	None	1 - 55-Sleeve	10 day																																			
SL-501-SA5C-SB-4.0-5.0	6/28/12 09:00	SD	None	1 - 55-Sleeve	10 day																																			
SL-502-SA5C-SB-4.5-5.5	6/28/12 10:30	SD	None	1 - 55-Sleeve	10 day																																			

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	Stephanie	6/28/12									

*Brandy Cooper 920*  
*Brandy*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

July 16, 2012

Project: SSFL Phase 3 Sampling

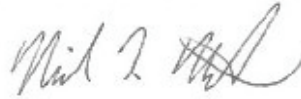
Submittal Date: 06/29/2012  
Group Number: 1319175  
SDG: PH015  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionEB-062812 Water  
SL-578-SA5C-SB-4.0-5.0 Soil  
SL-747-SA5C-SB-2.5-3.5 Soil  
SL-501-SA5C-SB-4.0-5.0 Soil  
SL-502-SA5C-SB-4.5-5.5 SoilLancaster Labs (LLI) #6706209  
6706210  
6706211  
6706212  
6706213

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
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Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

Sample Description: **EB-062812 Water**  
**SSFL Phase 3 Soil Sampling**  
**EB**

LLI Sample # **WW 6706209**  
 LLI Group # **1319175**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 06/28/2012 15:15

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

Suite 400

Fairfax VA 22030

DEB28 SDG#: PH015-14EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>	<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.295 U	0.295	1.94	1
10915	12378-PeCDD	40321-76-4	0.484 JQ	0.267	9.70	1
10915	123478-HxCDD	39227-28-6	0.221 U	0.221	9.70	1
10915	123678-HxCDD	57653-85-7	0.511 JBQ	0.223	9.70	1
10915	123789-HxCDD	19408-74-3	0.303 JBQ	0.216	9.70	1
10915	1234678-HpCDD	35822-46-9	3.10 JB	0.254	9.70	1
10915	OCDD	3268-87-9	5.69 JBQ	0.271	19.4	1
10915	2378-TCDF	51207-31-9	0.194 JBQ	0.177	1.94	1
10915	12378-PeCDF	57117-41-6	0.308 JBQ	0.183	9.70	1
10915	23478-PeCDF	57117-31-4	0.611 JBQ	0.155	9.70	1
10915	123478-HxCDF	70648-26-9	0.256 JBQ	0.120	9.70	1
10915	123678-HxCDF	57117-44-9	0.231 JBQ	0.120	9.70	1
10915	123789-HxCDF	72918-21-9	0.137 JQ	0.110	9.70	1
10915	234678-HxCDF	60851-34-5	0.128 JB	0.109	9.70	1
10915	1234678-HpCDF	67562-39-4	0.448 JBQ	0.279	9.70	1
10915	1234789-HpCDF	55673-89-7	0.520 JBQ	0.301	9.70	1
10915	OCDF	39001-02-0	0.685 JB	0.218	19.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	65	25 - 164
13C12-12378-PeCDD	63	25 - 181
13C12-123478-HxCDD	57	32 - 141
13C12-123678-HxCDD	59	28 - 130
13C12-123789-HxCDD	59	28 - 130
13C12-1234678-HpCDD	56	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	67	21 - 178
13C12-123478-HxCDF	61	26 - 152
13C12-123678-HxCDF	60	26 - 123
13C12-234678-HxCDF	63	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	58	28 - 143
13C12-1234789-HpCDF	57	26 - 138
13C12-OCDF	51	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** EB-062812 Water  
SSFL Phase 3 Soil Sampling  
EB

LLI Sample # WW 6706209  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/28/2012 15:15

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

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Reported: 07/16/2012 15:13

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Fairfax VA 22030

DEB28 SDG#: PH015-14EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans day	10-15 EPA 1613B	1	12184002	07/04/2012 04:15	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12184002	07/02/2012 09:30	Ginelle L Haines	1

**Sample Description:** SL-578-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-578-SA5C-SB

LLI Sample # SW 6706210  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/27/2012 10:15

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

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SL578 SDG#: PH015-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	6.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-578-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-578-SA5C-SB

LLI Sample # SW 6706210  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/27/2012 10:15

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

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Fairfax VA 22030

SL578 SDG#: PH015-15

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.141	J	0.0996	1.06	1
11031	12378-PeCDD	40321-76-4	0.485	JB	0.0936	5.30	1
11031	123478-HxCDD	39227-28-6	0.231	JQ	0.0947	5.30	1
11031	123678-HxCDD	57653-85-7	0.859	JB	0.0964	5.30	1
11031	123789-HxCDD	19408-74-3	0.728	JBQ	0.0934	5.30	1
11031	1234678-HpCDD	35822-46-9	10.9	B	0.104	5.30	1
11031	OCDD	3268-87-9	160	B	0.114	10.6	1
11031	2378-TCDF	51207-31-9	0.164	J	0.109	1.06	1
11031	12378-PeCDF	57117-41-6	0.668	JB	0.0640	5.30	1
11031	23478-PeCDF	57117-31-4	0.233	JB	0.0625	5.30	1
11031	123478-HxCDF	70648-26-9	0.281	JB	0.0624	5.30	1
11031	123678-HxCDF	57117-44-9	0.151	JB	0.0562	5.30	1
11031	123789-HxCDF	72918-21-9	0.621	JB	0.0637	5.30	1
11031	234678-HxCDF	60851-34-5	0.167	JB	0.0600	5.30	1
11031	1234678-HpCDF	67562-39-4	1.22	JB	0.0486	5.30	1
11031	1234789-HpCDF	55673-89-7	0.123	JB	0.0740	5.30	1
11031	OCDF	39001-02-0	2.96	JB	0.0951	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	88	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	82	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	79	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	79	28 - 136
13C12-123789-HxCDF	81	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	72	26 - 138
13C12-OCDF	75	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-578-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-578-SA5C-SB

LLI Sample # SW 6706210  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/27/2012 10:15

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

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Reported: 07/16/2012 15:13

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Fairfax VA 22030

SL578 SDG#: PH015-15

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-578-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-578-SA5C-SB

LLI Sample # SW 6706210  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/27/2012 10:15

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

Suite 400

Fairfax VA 22030

SL578 SDG#: PH015-15

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12191001	07/13/2012 14:52	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12191001	07/09/2012 11:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-747-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-747-SA5C-SB

LLI Sample # SW 6706211  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 14:01

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

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Fairfax VA 22030

SL747 SDG#: PH015-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-747-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-747-SA5C-SB

LLI Sample # SW 6706211  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 14:01

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

Suite 400

Fairfax VA 22030

SL747 SDG#: PH015-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	1.02	JQ 0.612	1.08	1
11031	12378-PeCDD	40321-76-4	2.37	JBQ 0.296	5.42	1
11031	123478-HxCDD	39227-28-6	5.15	J 0.234	5.42	1
11031	123678-HxCDD	57653-85-7	20.8	B 0.245	5.42	1
11031	123789-HxCDD	19408-74-3	10.1	B 0.228	5.42	1
11031	1234678-HpCDD	35822-46-9	429	B 0.308	5.42	1
11031	OCDD	3268-87-9	2,770	B 0.215	10.8	1
11031	2378-TCDF	51207-31-9	0.381	U 0.381	1.08	1
11031	12378-PeCDF	57117-41-6	0.494	JBQ 0.209	5.42	1
11031	23478-PeCDF	57117-31-4	0.555	JBQ 0.208	5.42	1
11031	123478-HxCDF	70648-26-9	1.79	JB 0.152	5.42	1
11031	123678-HxCDF	57117-44-9	2.13	JB 0.138	5.42	1
11031	123789-HxCDF	72918-21-9	0.673	JB 0.162	5.42	1
11031	234678-HxCDF	60851-34-5	3.30	JB 0.137	5.42	1
11031	1234678-HpCDF	67562-39-4	45.2	B 0.112	5.42	1
11031	1234789-HpCDF	55673-89-7	6.26	B 0.169	5.42	1
11031	OCDF	39001-02-0	91.1	B 0.167	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	75	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	82	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	76	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	71	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-747-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-747-SA5C-SB

LLI Sample # SW 6706211  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 14:01

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Submitted: 06/29/2012 09:20

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Fairfax VA 22030

SL747 SDG#: PH015-16

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-747-SA5C-SB-2.5-3.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-747-SA5C-SB

LLI Sample # SW 6706211  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/26/2012 14:01

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

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Fairfax VA 22030

SL747 SDG#: PH015-16

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12191001	07/13/2012 15:48	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12191001	07/09/2012 11:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-501-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-501-SA5C-SB

LLI Sample # SW 6706212  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/28/2012 09:00

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

Suite 400

Fairfax VA 22030

DL501 SDG#: PH015-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 9.2	% 0.50	% 0.50	1

**Sample Description:** SL-501-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-501-SA5C-SB

LLI Sample # SW 6706212  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/28/2012 09:00

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

Suite 400

Fairfax VA 22030

DL501 SDG#: PH015-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.144	U	0.144	1.09	1
11031	12378-PeCDD	40321-76-4	0.221	JB	0.112	5.44	1
11031	123478-HxCDD	39227-28-6	0.339	J	0.115	5.44	1
11031	123678-HxCDD	57653-85-7	1.20	JB	0.115	5.44	1
11031	123789-HxCDD	19408-74-3	0.917	JB	0.113	5.44	1
11031	1234678-HpCDD	35822-46-9	23.5	B	0.117	5.44	1
11031	OCDD	3268-87-9	230	B	0.0831	10.9	1
11031	2378-TCDF	51207-31-9	0.145	U	0.145	1.09	1
11031	12378-PeCDF	57117-41-6	0.199	JB	0.0776	5.44	1
11031	23478-PeCDF	57117-31-4	0.148	JB	0.0698	5.44	1
11031	123478-HxCDF	70648-26-9	0.195	JB	0.0711	5.44	1
11031	123678-HxCDF	57117-44-9	0.198	JBQ	0.0632	5.44	1
11031	123789-HxCDF	72918-21-9	0.348	JB	0.0716	5.44	1
11031	234678-HxCDF	60851-34-5	0.381	JB	0.0655	5.44	1
11031	1234678-HpCDF	67562-39-4	2.76	JB	0.0464	5.44	1
11031	1234789-HpCDF	55673-89-7	0.491	JBQ	0.0784	5.44	1
11031	OCDF	39001-02-0	7.17	JB	0.0811	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	96	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	66	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-501-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-501-SA5C-SB

LLI Sample # SW 6706212  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/28/2012 09:00

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

Suite 400

Fairfax VA 22030

DL501 SDG#: PH015-17

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-501-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-501-SA5C-SB

LLI Sample # SW 6706212  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/28/2012 09:00

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

Suite 400

Fairfax VA 22030

DL501 SDG#: PH015-17

### General Sample Comments

State of California Lab Certification No. 2501

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### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12191001	07/13/2012 16:45	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12191001	07/09/2012 11:30	Ginelle L Haines	1
11625	Moisture CDM	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

**Sample Description:** SL-502-SA5C-SB-4.5-5.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6706213  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/28/2012 10:30

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

Suite 400

Fairfax VA 22030

SL502 SDG#: PH015-18\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-502-SA5C-SB-4.5-5.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6706213  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/28/2012 10:30

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

Suite 400

Fairfax VA 22030

SL502 SDG#: PH015-18\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0568 U	0.0568	1.11	1
11031	12378-PeCDD	40321-76-4	0.176 JBQ	0.0523	5.55	1
11031	123478-HxCDD	39227-28-6	0.281 JQ	0.0672	5.55	1
11031	123678-HxCDD	57653-85-7	1.22 JB	0.0701	5.55	1
11031	123789-HxCDD	19408-74-3	0.637 JB	0.0689	5.55	1
11031	1234678-HpCDD	35822-46-9	32.9 B	0.116	5.55	1
11031	OCDD	3268-87-9	934 B	0.0893	11.1	1
11031	2378-TCDF	51207-31-9	0.0571 U	0.0571	1.11	1
11031	12378-PeCDF	57117-41-6	0.0296 U	0.0296	5.55	1
11031	23478-PeCDF	57117-31-4	0.0539 JBQ	0.0269	5.55	1
11031	123478-HxCDF	70648-26-9	0.234 JBQ	0.0392	5.55	1
11031	123678-HxCDF	57117-44-9	0.0489 JBQ	0.0349	5.55	1
11031	123789-HxCDF	72918-21-9	0.0401 U	0.0401	5.55	1
11031	234678-HxCDF	60851-34-5	0.132 JBQ	0.0362	5.55	1
11031	1234678-HpCDF	67562-39-4	2.15 JB	0.0299	5.55	1
11031	1234789-HpCDF	55673-89-7	0.182 JB	0.0482	5.55	1
11031	OCDF	39001-02-0	7.71 JB	0.0824	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	69	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	76	23 - 140
13C12-OCDD	78	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	76	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	68	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-502-SA5C-SB-4.5-5.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6706213  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/28/2012 10:30

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

3201 Jermantown Road

Reported: 07/16/2012 15:13

Suite 400

Fairfax VA 22030

SL502 SDG#: PH015-18\*

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-502-SA5C-SB-4.5-5.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5C-SB

LLI Sample # SW 6706213  
LLI Group # 1319175  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 06/28/2012 10:30

CDM Federal Programs Corp.

Submitted: 06/29/2012 09:20

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Reported: 07/16/2012 15:13

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Fairfax VA 22030

SL502 SDG#: PH015-18\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12191001	07/13/2012 17:42	Nelson H Risser	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12191001	07/09/2012 11:30	Ginelle L Haines	1
11624	Moisture CDM	EPA 160.3 modified	1	12181162401B	06/29/2012 11:55	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/16/12 at 03:13 PM

Group Number: 1319175

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12181162401B	Sample number(s): 6706210-6706213								
Moisture CDM					100		80-120		
Moisture CDM					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12184002	Sample number(s): 6706209								
2378-TCDD	0.384 U	0.384	2.00	pg/l	108		67-158		
12378-PeCDD	0.365 U	0.365	10.0	pg/l	108		70-142		
123478-HxCDD	0.891 J	0.228	10.0	pg/l	102		70-164		
123678-HxCDD	0.433 J	0.252	10.0	pg/l	103		76-134		
123789-HxCDD	1.41 J	0.237	10.0	pg/l	109		64-162		
1234678-HpCDD	2.97 J	0.282	10.0	pg/l	110		70-140		
OCDD	5.01 J	0.290	20.0	pg/l	111		78-144		
2378-TCDF	0.654 J	0.230	2.00	pg/l	99		75-158		
12378-PeCDF	0.312 J	0.212	10.0	pg/l	109		80-134		
23478-PeCDF	0.647 J	0.198	10.0	pg/l	102		68-160		
123478-HxCDF	0.398 J	0.141	10.0	pg/l	109		72-134		
123678-HxCDF	0.399 J	0.139	10.0	pg/l	112		84-130		
123789-HxCDF	0.123 U	0.123	10.0	pg/l	110		78-130		
234678-HxCDF	0.479 J	0.130	10.0	pg/l	107		70-156		
1234678-HpCDF	0.656 J	0.134	10.0	pg/l	104		82-122		
1234789-HpCDF	0.313 J	0.148	10.0	pg/l	107		78-138		
OCDF	1.45 J	0.225	20.0	pg/l	111		63-170		

Batch number: 12191001	Sample number(s): 6706210-6706213								
2378-TCDD	0.0651 U	0.0651	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0823 J	0.0365	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0329 U	0.0329	5.00	ng/kg	102		70-164		
123678-HxCDD	0.0801 J	0.0323	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0867 J	0.0312	5.00	ng/kg	106		64-162		
1234678-HpCDD	0.277 J	0.0330	5.00	ng/kg	100		70-140		
OCDD	0.632 J	0.0353	10.0	ng/kg	98		78-144		
2378-TCDF	0.0525 U	0.0525	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0423 J	0.0303	5.00	ng/kg	103		80-134		
23478-PeCDF	0.0804 J	0.0314	5.00	ng/kg	98		68-160		
123478-HxCDF	0.0598 J	0.0224	5.00	ng/kg	106		72-134		
123678-HxCDF	0.0343 J	0.0191	5.00	ng/kg	103		84-130		
123789-HxCDF	0.0585 J	0.0240	5.00	ng/kg	103		78-130		
234678-HxCDF	0.0831 J	0.0211	5.00	ng/kg	98		70-156		
1234678-HpCDF	0.0966 J	0.0143	5.00	ng/kg	96		82-122		
1234789-HpCDF	0.0525 J	0.0272	5.00	ng/kg	99		78-138		
OCDF	0.244 J	0.0485	10.0	ng/kg	101		63-170		

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/16/12 at 03:13 PM

Group Number: 1319175

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12181162401B	Sample number(s): 6706210-6706213				BKG: P703555				
Moisture CDM						10.5	10.9	4	20
Moisture CDM						10.5	10.9	4	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10b. Dioxins/Furans 10-15 day

Batch number: 12184002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6706209	65	67	61	60	63	71
Blank	86	94	90	88	93	105
OPR	81	85	82	80	81	97
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6706209	58	57	51	63	57	59
Blank	87	83	76	87	88	85
OPR	76	74	69	80	77	77
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6706209	59	56	53	69	66	
Blank	87	81	75	94	93	
OPR	77	71	65	84	87	
Limits:	28-130	23-140	17-157	24-169	24-185	

Analysis Name: 10a. Dioxins/Furans 10-15 day

Batch number: 12191001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6706210	78	78	79	84	79	81
6706211	76	77	77	81	78	76
6706212	75	81	75	79	78	79
6706213	69	78	74	79	78	77
Blank	89	87	88	98	88	86
OPR	67	68	71	80	74	67
Limits:	25-164	21-178	26-152	26-123	28-136	29-147

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/16/12 at 03:13 PM

Group Number: 1319175

### Surrogate Quality Control

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6706210	93	72	75	77	77	77
6706211	97	74	71	76	77	75
6706212	96	68	66	81	77	76
6706213	93	68	64	78	77	76
Blank	119	76	69	92	93	91
OPR	95	61	54	72	75	74
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6706210	78	78	88	72	82	
6706211	76	82	82	69	79	
6706212	78	77	81	68	80	
6706213	77	76	78	65	76	
Blank	93	94	89	80	96	
OPR	74	74	71	64	76	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

13013

1319175

6706209-13

# SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 6/28/2012

Carrier Name: FedEx

Airbill No:

793733712651

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No:

20120628-02

Cooler #:

Lab:

Lancaster

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Metals 6010 and 6020	Mercury 7471 (Soil)	Mercury 7470 (Water)	Fluoride 3001/9056	TK 8270	PAHs 8270 SIM	1,4 Dioxane 8270 SIM	Dioxins 1613	PCBs/PCTs 8082	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	pH 9045 (Soil)	pH 9040 (Water)	Hex C 7196/7199	Herbicides 8151	Pesticides 8081	VOCS 8270	1,4 Dioxane 8260 SIM	TPH-GMD 8015	TPH-EFH 8015	Glycols 8015	Alcohols 8015	Terphenyls 8015	Nitrates 3001/9056	Emergetics 8330	Cyanide 9012	Formaldehyde 8315	NDMA 1625	Orenatin	Methyl Mercury 1630	Other Analysis/Notes				
EB-062812	6/28/12 15:15	WQ	None	3 - 1L amber	10 day								X																											
SL-578-SA5C-SB-4.0-5.0	6/27/12 10:13	SO	None	1 - 55-Sleeve	10 day								X																											
SL-747-SA5C-SB-2.5-3.5	6/26/12 14:01	SO	None	1 - 55-Sleeve	10 day								X																											
SL-501-SA5C-SB-4.0-5.0	6/28/12 09:00	SO	None	1 - 55-Sleeve	10 day								X																											
SL-502-SA5C-SB-4.5-5.5	6/28/12 10:30	SO	None	1 - 55-Sleeve	10 day								X																											

Special Instructions: SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>Stefan Muel</i>	<i>6/28/2012</i>									

*Brady Co-291K 920*  
*Brady*

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

July 24, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 07/11/2012  
Group Number: 1321233  
SDG: PH017  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

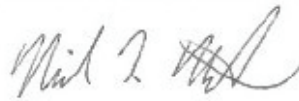
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-530-SA5C-SB-4.0-5.0 Soil	6715886
SL-530-SA5C-SB-9.0-10.0 Soil	6715887
SL-522-SA5C-SB-4.0-5.0 Soil	6715888
SL-522-SA5C-SB-4.0-5.0 MS Soil	6715889
SL-522-SA5C-SB-4.0-5.0 MSD Soil	6715890
SL-522-SA5C-SB-9.0-10.0 Soil	6715891
SL-822-SA5C-SB-4.0-5.0 Soil	6715892
SL-531-SA5C-SB-4.0-5.0 Soil	6715893
SL-531-SA5C-SB-9.0-10.0 Soil	6715894
SL-623-SA5C-SB-4.0-5.0 Soil	6715895
SL-623-SA5C-SB-9.0-10.0 Soil	6715896
SL-523-SA5C-SB-4.0-5.0 Soil	6715897
SL-523-SA5C-SB-9.0-10.0 Soil	6715898
SL-754-SA5C-SB-0.0-0.5 Soil	6715899
SL-754-SA5C-SB-4.0-5.0 Soil	6715900
SL-754-SA5C-SB-6.5-7.5 Soil	6715901
SL-533-SA5C-SB-4.0-5.0 Soil	6715902
SL-533-SA5C-SB-9.0-10.0 Soil	6715903
SL-755-SA5C-SB-0.0-0.5 Soil	6715904
SL-755-SA5C-SB-4.0-5.0 Soil	6715905
SL-755-SA5C-SB-5.5-6.5 Soil	6715906
SL-640-SA5C-SB-5.0-6.0 Soil	6715907

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
ELECTRONIC COPY TO  
CDM Federal Services Program  
Data Package Group

Attn: Todd Burgesser

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-530-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-530-SA5C-SB

LLI Sample # SW 6715886  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 09:05

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1701 SDG#: PH017-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-530-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-530-SA5C-SB

LLI Sample # SW 6715886  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 09:05

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H1701 SDG#: PH017-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0546	J	0.0398	1.08	1
11031	12378-PeCDD	40321-76-4	0.0505	U	0.0505	5.42	1
11031	123478-HxCDD	39227-28-6	0.0352	U	0.0352	5.42	1
11031	123678-HxCDD	57653-85-7	0.0567	JQ	0.0365	5.42	1
11031	123789-HxCDD	19408-74-3	0.0750	JQ	0.0341	5.42	1
11031	1234678-HpCDD	35822-46-9	1.04	JBQ	0.0414	5.42	1
11031	OCDD	3268-87-9	8.18	JB	0.0410	10.8	1
11031	2378-TCDF	51207-31-9	0.0380	U	0.0380	1.08	1
11031	12378-PeCDF	57117-41-6	0.0890	JBQ	0.0251	5.42	1
11031	23478-PeCDF	57117-31-4	0.101	JBQ	0.0220	5.42	1
11031	123478-HxCDF	70648-26-9	0.0233	JB	0.0221	5.42	1
11031	123678-HxCDF	57117-44-9	0.0347	JQ	0.0214	5.42	1
11031	123789-HxCDF	72918-21-9	0.0438	JBQ	0.0213	5.42	1
11031	234678-HxCDF	60851-34-5	0.0413	JBQ	0.0201	5.42	1
11031	1234678-HpCDF	67562-39-4	0.175	JBQ	0.0275	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0693	JQ	0.0354	5.42	1
11031	OCDF	39001-02-0	0.418	J	0.0477	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	92	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	90	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	76	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	95	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	81	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-530-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-530-SA5C-SB

**LLI Sample #** SW 6715886  
**LLI Group #** 1321233  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 09:05

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Submitted: 07/11/2012 09:25

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H1701 SDG#: PH017-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-530-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-530-SA5C-SB

LLI Sample # SW 6715886  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 09:05

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Submitted: 07/11/2012 09:25

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H1701 SDG#: PH017-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/16/2012 17:32	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-530-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-530-SA5C-SB

LLI Sample # SW 6715887  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 09:20

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H1702 SDG#: PH017-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-530-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-530-SA5C-SB

LLI Sample # SW 6715887  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/09/2012 09:20

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Submitted: 07/11/2012 09:25

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H1702 SDG#: PH017-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0684 U	0.0684	1.05	1
11031	12378-PeCDD	40321-76-4	0.0520 JBQ	0.0434	5.26	1
11031	123478-HxCDD	39227-28-6	0.0437 JQ	0.0273	5.26	1
11031	123678-HxCDD	57653-85-7	0.0284 U	0.0284	5.26	1
11031	123789-HxCDD	19408-74-3	0.0826 JQ	0.0276	5.26	1
11031	1234678-HpCDD	35822-46-9	0.463 JB	0.0259	5.26	1
11031	OCDD	3268-87-9	1.90 JB	0.0219	10.5	1
11031	2378-TCDF	51207-31-9	0.0561 JQ	0.0522	1.05	1
11031	12378-PeCDF	57117-41-6	0.0479 JB	0.0320	5.26	1
11031	23478-PeCDF	57117-31-4	0.0751 JBQ	0.0302	5.26	1
11031	123478-HxCDF	70648-26-9	0.0590 JBQ	0.0164	5.26	1
11031	123678-HxCDF	57117-44-9	0.0348 JQ	0.0150	5.26	1
11031	123789-HxCDF	72918-21-9	0.0653 JBQ	0.0140	5.26	1
11031	234678-HxCDF	60851-34-5	0.0494 JBQ	0.0157	5.26	1
11031	1234678-HpCDF	67562-39-4	0.124 JB	0.0109	5.26	1
11031	1234789-HpCDF	55673-89-7	0.0804 J	0.0153	5.26	1
11031	OCDF	39001-02-0	0.185 JQ	0.0282	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	100	23 - 140
13C12-OCDD	116	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	77	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	80	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	94	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	93	26 - 138
13C12-OCDF	105	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-530-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-530-SA5C-SB

LLI Sample # SW 6715887  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 09:20

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H1702 SDG#: PH017-02

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-530-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-530-SA5C-SB

LLI Sample # SW 6715887  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 09:20

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H1702 SDG#: PH017-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/17/2012 20:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-522-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715888  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:05

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H1703 SDG#: PH017-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-522-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715888  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/09/2012 10:05

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1703 SDG#: PH017-03BKG

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0543	J	0.0541	1.08	1
11031	12378-PeCDD	40321-76-4	0.0684	U	0.0684	5.38	1
11031	123478-HxCDD	39227-28-6	0.171	JQ	0.0702	5.38	1
11031	123678-HxCDD	57653-85-7	0.344	J	0.0725	5.38	1
11031	123789-HxCDD	19408-74-3	0.326	JQ	0.0679	5.38	1
11031	1234678-HpCDD	35822-46-9	4.15	JB	0.0819	5.38	1
11031	OCDD	3268-87-9	35.5	B	0.0813	10.8	1
11031	2378-TCDF	51207-31-9	0.0670	U	0.0670	1.08	1
11031	12378-PeCDF	57117-41-6	0.0399	U	0.0399	5.38	1
11031	23478-PeCDF	57117-31-4	0.0924	JBQ	0.0378	5.38	1
11031	123478-HxCDF	70648-26-9	0.101	JBQ	0.0425	5.38	1
11031	123678-HxCDF	57117-44-9	0.0858	J	0.0400	5.38	1
11031	123789-HxCDF	72918-21-9	0.255	JB	0.0363	5.38	1
11031	234678-HxCDF	60851-34-5	0.0666	JBQ	0.0380	5.38	1
11031	1234678-HpCDF	67562-39-4	0.550	JBQ	0.0389	5.38	1
11031	1234789-HpCDF	55673-89-7	0.0516	U	0.0516	5.38	1
11031	OCDF	39001-02-0	1.32	JQ	0.118	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	66	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	73	28 - 130
13C12-1234678-HpCDD	69	23 - 140
13C12-OCDD	59	17 - 157
13C12-2378-TCDF	69	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	65	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	75	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	74	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	55	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-522-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715888  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:05

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H1703 SDG#: PH017-03BKG

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-522-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715888  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:05

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H1703 SDG#: PH017-03BKG

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/16/2012 19:26	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-522-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715889  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:05

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H1703 SDG#: PH017-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 7.1	% 0.50	% 0.50	1

Sample Description: SL-522-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715889  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/09/2012 10:05

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H1703 SDG#: PH017-03MS

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>		
11031	2378-TCDD	1746-01-6	21.2		0.0487	1.04	1
11031	12378-PeCDD	40321-76-4	105	B	0.0530	5.21	1
11031	123478-HxCDD	39227-28-6	103		0.0654	5.21	1
11031	123678-HxCDD	57653-85-7	101		0.0661	5.21	1
11031	123789-HxCDD	19408-74-3	109		0.0652	5.21	1
11031	1234678-HpCDD	35822-46-9	108	B	0.0918	5.21	1
11031	OCDD	3268-87-9	233	B	0.0941	10.4	1
11031	2378-TCDF	51207-31-9	19.9		0.0564	1.04	1
11031	12378-PeCDF	57117-41-6	103	B	0.0434	5.21	1
11031	23478-PeCDF	57117-31-4	99.8	B	0.0421	5.21	1
11031	123478-HxCDF	70648-26-9	108	B	0.0526	5.21	1
11031	123678-HxCDF	57117-44-9	104		0.0501	5.21	1
11031	123789-HxCDF	72918-21-9	107	B	0.0553	5.21	1
11031	234678-HxCDF	60851-34-5	104	B	0.0511	5.21	1
11031	1234678-HpCDF	67562-39-4	97.5	B	0.0621	5.21	1
11031	1234789-HpCDF	55673-89-7	103		0.0854	5.21	1
11031	OCDF	39001-02-0	206		0.105	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	69	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	72	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	85	29 - 147
13C12-1234678-HpCDF	84	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-522-SA5C-SB-4.0-5.0 MS Soil  
 SSFL Phase 3 Soil Sampling  
 SL-522-SA5C-SB

LLI Sample # SW 6715889  
 LLI Group # 1321233  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:05

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

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Fairfax VA 22030

H1703 SDG#: PH017-03MS

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-522-SA5C-SB-4.0-5.0 MS Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715889  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:05

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1703 SDG#: PH017-03MS

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/16/2012 20:22	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-522-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715890  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:05

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1703 SDG#: PH017-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11625	Moisture CDM	n.a.	7.1	0.50	0.50	1
11626	Moisture Duplicate CDM	n.a.	7.3	0.50	0.50	1

The duplicate moisture value is provided to assess the precision of the moisture test. For comparability purposes, the initial moisture determination is the value used to perform dry weight calculations.

Sample Description: SL-522-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715890  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/09/2012 10:05

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Submitted: 07/11/2012 09:25

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H1703 SDG#: PH017-03MSD

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>					<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>					<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	21.0		0.0564	1.04	1
11031	12378-PeCDD	40321-76-4	105	B	0.0666	5.21	1
11031	123478-HxCDD	39227-28-6	105		0.0744	5.21	1
11031	123678-HxCDD	57653-85-7	101		0.0759	5.21	1
11031	123789-HxCDD	19408-74-3	109		0.0723	5.21	1
11031	1234678-HpCDD	35822-46-9	108	B	0.0736	5.21	1
11031	OCDD	3268-87-9	238	B	0.0914	10.4	1
11031	2378-TCDF	51207-31-9	20.5		0.0630	1.04	1
11031	12378-PeCDF	57117-41-6	105	B	0.0488	5.21	1
11031	23478-PeCDF	57117-31-4	101	B	0.0451	5.21	1
11031	123478-HxCDF	70648-26-9	107	B	0.0719	5.21	1
11031	123678-HxCDF	57117-44-9	106		0.0689	5.21	1
11031	123789-HxCDF	72918-21-9	108	B	0.0695	5.21	1
11031	234678-HxCDF	60851-34-5	104	B	0.0672	5.21	1
11031	1234678-HpCDF	67562-39-4	97.7	B	0.0655	5.21	1
11031	1234789-HpCDF	55673-89-7	104		0.0889	5.21	1
11031	OCDF	39001-02-0	204		0.0896	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	79	23 - 140
13C12-OCDD	76	17 - 157
13C12-2378-TCDF	70	24 - 169
13C12-12378-PeCDF	70	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	75	26 - 138
13C12-OCDF	72	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-522-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715890  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:05

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Submitted: 07/11/2012 09:25

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H1703 SDG#: PH017-03MSD

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-522-SA5C-SB-4.0-5.0 MSD Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715890  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:05

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1703 SDG#: PH017-03MSD

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/16/2012 21:19	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1
11626	Moisture Duplicate CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-522-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715891  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:15

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Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1704 SDG#: PH017-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	6.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-522-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715891  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/09/2012 10:15

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Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1704 SDG#: PH017-04

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0587	U	0.0587	1.04	1
11031	12378-PeCDD	40321-76-4	0.0985	JB	0.0602	5.22	1
11031	123478-HxCDD	39227-28-6	0.0998	J	0.0487	5.22	1
11031	123678-HxCDD	57653-85-7	0.0718	J	0.0497	5.22	1
11031	123789-HxCDD	19408-74-3	0.150	J	0.0471	5.22	1
11031	1234678-HpCDD	35822-46-9	0.951	JB	0.0526	5.22	1
11031	OCDD	3268-87-9	3.97	JB	0.0596	10.4	1
11031	2378-TCDF	51207-31-9	0.0547	U	0.0547	1.04	1
11031	12378-PeCDF	57117-41-6	0.107	JBQ	0.0322	5.22	1
11031	23478-PeCDF	57117-31-4	0.0897	JB	0.0284	5.22	1
11031	123478-HxCDF	70648-26-9	0.0536	JB	0.0302	5.22	1
11031	123678-HxCDF	57117-44-9	0.0735	J	0.0290	5.22	1
11031	123789-HxCDF	72918-21-9	0.0297	U	0.0297	5.22	1
11031	234678-HxCDF	60851-34-5	0.0422	JBQ	0.0290	5.22	1
11031	1234678-HpCDF	67562-39-4	0.231	JBQ	0.0232	5.22	1
11031	1234789-HpCDF	55673-89-7	0.0693	J	0.0301	5.22	1
11031	OCDF	39001-02-0	0.258	J	0.0763	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	70	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	76	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	66	24 - 169
13C12-12378-PeCDF	67	24 - 185
13C12-23478-PeCDF	68	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	82	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	69	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-522-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-522-SA5C-SB

**LLI Sample #** SW 6715891  
**LLI Group #** 1321233  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:15

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1704 SDG#: PH017-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-522-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-522-SA5C-SB

LLI Sample # SW 6715891  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:15

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1704 SDG#: PH017-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/16/2012 22:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-822-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-822-SA5C-SB

LLI Sample # SW 6715892  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1705 SDG#: PH017-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-822-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-822-SA5C-SB

LLI Sample # SW 6715892  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:30

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H1705 SDG#: PH017-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.317 U	0.317	1.09	1
11031	12378-PeCDD	40321-76-4	0.132 JBQ	0.0859	5.44	1
11031	123478-HxCDD	39227-28-6	0.0890 JQ	0.0574	5.44	1
11031	123678-HxCDD	57653-85-7	0.296 J	0.0564	5.44	1
11031	123789-HxCDD	19408-74-3	0.338 JQ	0.0547	5.44	1
11031	1234678-HpCDD	35822-46-9	4.40 JB	0.0603	5.44	1
11031	OCDD	3268-87-9	37.4 B	0.0470	10.9	1
11031	2378-TCDF	51207-31-9	0.235 U	0.235	1.09	1
11031	12378-PeCDF	57117-41-6	0.149 U	0.149	5.44	1
11031	23478-PeCDF	57117-31-4	0.171 JB	0.151	5.44	1
11031	123478-HxCDF	70648-26-9	0.0484 JBQ	0.0341	5.44	1
11031	123678-HxCDF	57117-44-9	0.0849 JQ	0.0312	5.44	1
11031	123789-HxCDF	72918-21-9	0.187 JBQ	0.0325	5.44	1
11031	234678-HxCDF	60851-34-5	0.0943 JBQ	0.0324	5.44	1
11031	1234678-HpCDF	67562-39-4	0.530 JBQ	0.0244	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0758 JQ	0.0333	5.44	1
11031	OCDF	39001-02-0	1.55 J	0.0642	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	92	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	90	32 - 141
13C12-123678-HxCDD	90	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	93	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	84	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	89	26 - 152
13C12-123678-HxCDF	91	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	102	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	86	26 - 138
13C12-OCDF	81	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-822-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-822-SA5C-SB

LLI Sample # SW 6715892  
 LLI Group # 1321233  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:30

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H1705 SDG#: PH017-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-822-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-822-SA5C-SB

LLI Sample # SW 6715892  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1705 SDG#: PH017-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/16/2012 23:12	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-531-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-531-SA5C-SB

LLI Sample # SW 6715893  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 11:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1706 SDG#: PH017-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-531-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-531-SA5C-SB

LLI Sample # SW 6715893  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/09/2012 11:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1706 SDG#: PH017-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0324 JQ	0.0252	1.07	1
11031	12378-PeCDD	40321-76-4	0.106 JBQ	0.0233	5.35	1
11031	123478-HxCDD	39227-28-6	0.0822 JQ	0.0186	5.35	1
11031	123678-HxCDD	57653-85-7	0.0905 J	0.0186	5.35	1
11031	123789-HxCDD	19408-74-3	0.113 J	0.0181	5.35	1
11031	1234678-HpCDD	35822-46-9	0.361 JB	0.0157	5.35	1
11031	OCDD	3268-87-9	2.21 JB	0.0138	10.7	1
11031	2378-TCDF	51207-31-9	0.0351 J	0.0205	1.07	1
11031	12378-PeCDF	57117-41-6	0.199 JB	0.0135	5.35	1
11031	23478-PeCDF	57117-31-4	0.174 JB	0.0135	5.35	1
11031	123478-HxCDF	70648-26-9	0.127 JB	0.0132	5.35	1
11031	123678-HxCDF	57117-44-9	0.0916 J	0.0122	5.35	1
11031	123789-HxCDF	72918-21-9	0.0934 JB	0.0115	5.35	1
11031	234678-HxCDF	60851-34-5	0.0670 JBQ	0.0122	5.35	1
11031	1234678-HpCDF	67562-39-4	0.110 JBQ	0.00808	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0264 JQ	0.0103	5.35	1
11031	OCDF	39001-02-0	0.149 JQ	0.0186	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	105	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	86	28 - 136
13C12-123789-HxCDF	98	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	100	26 - 138
13C12-OCDF	101	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-531-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-531-SA5C-SB

LLI Sample # SW 6715893  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 11:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

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H1706 SDG#: PH017-06

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-531-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-531-SA5C-SB

LLI Sample # SW 6715893  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 11:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1706 SDG#: PH017-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 14:24	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-531-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-531-SA5C-SB

LLI Sample # SW 6715894  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 11:35

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1707 SDG#: PH017-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-531-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-531-SA5C-SB

LLI Sample # SW 6715894  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/09/2012 11:35

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1707 SDG#: PH017-07

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0389	U	0.0389	1.11	1
11031	12378-PeCDD	40321-76-4	0.302	JBQ	0.0316	5.55	1
11031	123478-HxCDD	39227-28-6	0.156	JQ	0.0252	5.55	1
11031	123678-HxCDD	57653-85-7	0.239	J	0.0249	5.55	1
11031	123789-HxCDD	19408-74-3	0.277	JQ	0.0231	5.55	1
11031	1234678-HpCDD	35822-46-9	1.88	JB	0.0244	5.55	1
11031	OCDD	3268-87-9	18.7	B	0.0239	11.1	1
11031	2378-TCDF	51207-31-9	0.135	J	0.0392	1.11	1
11031	12378-PeCDF	57117-41-6	0.390	JB	0.0244	5.55	1
11031	23478-PeCDF	57117-31-4	0.353	JB	0.0244	5.55	1
11031	123478-HxCDF	70648-26-9	0.202	JB	0.0197	5.55	1
11031	123678-HxCDF	57117-44-9	0.218	J	0.0176	5.55	1
11031	123789-HxCDF	72918-21-9	0.222	JBQ	0.0164	5.55	1
11031	234678-HxCDF	60851-34-5	0.155	JB	0.0171	5.55	1
11031	1234678-HpCDF	67562-39-4	0.286	JB	0.0138	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0734	J	0.0168	5.55	1
11031	OCDF	39001-02-0	0.533	J	0.0224	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	105	23 - 140
13C12-OCDD	112	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	97	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	102	29 - 147
13C12-1234678-HpCDF	111	28 - 143
13C12-1234789-HpCDF	108	26 - 138
13C12-OCDF	110	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-531-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-531-SA5C-SB

**LLI Sample #** SW 6715894  
**LLI Group #** 1321233  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 11:35

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Submitted: 07/11/2012 09:25

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H1707 SDG#: PH017-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-531-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-531-SA5C-SB

LLI Sample # SW 6715894  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 11:35

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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Fairfax VA 22030

H1707 SDG#: PH017-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 15:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-623-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-623-SA5C-SB

LLI Sample # SW 6715895  
 LLI Group # 1321233  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1708 SDG#: PH017-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-623-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-623-SA5C-SB

LLI Sample # SW 6715895  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/09/2012 10:55

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Submitted: 07/11/2012 09:25

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H1708 SDG#: PH017-08

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0473	J	0.0294	1.07	1
11031	12378-PeCDD	40321-76-4	0.193	JBQ	0.0300	5.34	1
11031	123478-HxCDD	39227-28-6	0.0796	J	0.0290	5.34	1
11031	123678-HxCDD	57653-85-7	0.301	J	0.0296	5.34	1
11031	123789-HxCDD	19408-74-3	0.192	J	0.0263	5.34	1
11031	1234678-HpCDD	35822-46-9	4.84	JB	0.0386	5.34	1
11031	OCDD	3268-87-9	49.4	B	0.0261	10.7	1
11031	2378-TCDF	51207-31-9	0.0762	J	0.0299	1.07	1
11031	12378-PeCDF	57117-41-6	0.366	JB	0.0164	5.34	1
11031	23478-PeCDF	57117-31-4	0.302	JBQ	0.0157	5.34	1
11031	123478-HxCDF	70648-26-9	0.136	JB	0.0200	5.34	1
11031	123678-HxCDF	57117-44-9	0.131	JQ	0.0191	5.34	1
11031	123789-HxCDF	72918-21-9	0.124	JB	0.0177	5.34	1
11031	234678-HxCDF	60851-34-5	0.0974	JBQ	0.0180	5.34	1
11031	1234678-HpCDF	67562-39-4	0.630	JB	0.0138	5.34	1
11031	1234789-HpCDF	55673-89-7	0.0741	JQ	0.0179	5.34	1
11031	OCDF	39001-02-0	1.05	J	0.0286	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	99	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	95	26 - 138
13C12-OCDF	86	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-623-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-623-SA5C-SB

**LLI Sample #** SW 6715895  
**LLI Group #** 1321233  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1708 SDG#: PH017-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-623-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-623-SA5C-SB

LLI Sample # SW 6715895  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 10:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1708 SDG#: PH017-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 16:18	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-623-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-623-SA5C-SB

LLI Sample # SW 6715896  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 11:00

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1709 SDG#: PH017-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	5.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-623-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-623-SA5C-SB

LLI Sample # SW 6715896  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 11:00

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1709 SDG#: PH017-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0879	J	0.0364	1.04	1
11031	12378-PeCDD	40321-76-4	0.137	JBQ	0.0293	5.19	1
11031	123478-HxCDD	39227-28-6	0.134	J	0.0286	5.19	1
11031	123678-HxCDD	57653-85-7	0.392	JQ	0.0299	5.19	1
11031	123789-HxCDD	19408-74-3	0.356	JQ	0.0268	5.19	1
11031	1234678-HpCDD	35822-46-9	7.94	B	0.0313	5.19	1
11031	OCDD	3268-87-9	78.6	B	0.0300	10.4	1
11031	2378-TCDF	51207-31-9	0.0357	U	0.0357	1.04	1
11031	12378-PeCDF	57117-41-6	0.278	JB	0.0217	5.19	1
11031	23478-PeCDF	57117-31-4	0.174	JB	0.0202	5.19	1
11031	123478-HxCDF	70648-26-9	0.145	JB	0.0173	5.19	1
11031	123678-HxCDF	57117-44-9	0.112	JQ	0.0163	5.19	1
11031	123789-HxCDF	72918-21-9	0.165	JB	0.0155	5.19	1
11031	234678-HxCDF	60851-34-5	0.123	JB	0.0154	5.19	1
11031	1234678-HpCDF	67562-39-4	1.11	JB	0.0147	5.19	1
11031	1234789-HpCDF	55673-89-7	0.0898	J	0.0166	5.19	1
11031	OCDF	39001-02-0	2.48	J	0.0211	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	96	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	104	23 - 140
13C12-OCDD	108	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	95	29 - 147
13C12-1234678-HpCDF	95	28 - 143
13C12-1234789-HpCDF	102	26 - 138
13C12-OCDF	103	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-623-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-623-SA5C-SB

LLI Sample # SW 6715896  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 11:00

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1709 SDG#: PH017-09

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-623-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-623-SA5C-SB

LLI Sample # SW 6715896  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 11:00

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

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Fairfax VA 22030

H1709 SDG#: PH017-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 00:02	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-523-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-523-SA5C-SB

LLI Sample # SW 6715897  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 13:20

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1710 SDG#: PH017-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	7.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-523-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-523-SA5C-SB

LLI Sample # SW 6715897  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 13:20

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

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H1710 SDG#: PH017-10

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>				
			ng/kg		ng/kg	ng/kg	
11031	2378-TCDD	1746-01-6	0.0366	U	0.0366	1.07	1
11031	12378-PeCDD	40321-76-4	0.0362	U	0.0362	5.35	1
11031	123478-HxCDD	39227-28-6	0.0195	U	0.0195	5.35	1
11031	123678-HxCDD	57653-85-7	0.0237	J	0.0197	5.35	1
11031	123789-HxCDD	19408-74-3	0.0176	U	0.0176	5.35	1
11031	1234678-HpCDD	35822-46-9	0.434	JB	0.0264	5.35	1
11031	OCDD	3268-87-9	2.68	JB	0.0310	10.7	1
11031	2378-TCDF	51207-31-9	0.0313	U	0.0313	1.07	1
11031	12378-PeCDF	57117-41-6	0.0397	JB	0.0182	5.35	1
11031	23478-PeCDF	57117-31-4	0.0449	JB	0.0174	5.35	1
11031	123478-HxCDF	70648-26-9	0.0256	JBQ	0.0119	5.35	1
11031	123678-HxCDF	57117-44-9	0.0364	JQ	0.0115	5.35	1
11031	123789-HxCDF	72918-21-9	0.0175	JBQ	0.0111	5.35	1
11031	234678-HxCDF	60851-34-5	0.0294	JBQ	0.0109	5.35	1
11031	1234678-HpCDF	67562-39-4	0.0888	JBQ	0.0132	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0339	JQ	0.0172	5.35	1
11031	OCDF	39001-02-0	0.0897	JQ	0.0310	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	80	25 - 164
13C12-12378-PeCDD	95	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	107	23 - 140
13C12-OCDD	115	17 - 157
13C12-2378-TCDF	75	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	80	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	95	26 - 138
13C12-OCDF	97	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-523-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-523-SA5C-SB

LLI Sample # SW 6715897  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 13:20

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1710 SDG#: PH017-10

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-523-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-523-SA5C-SB

LLI Sample # SW 6715897  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 13:20

CDM Federal Programs Corp.

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H1710 SDG#: PH017-10

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 00:58	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401A	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-523-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-523-SA5C-SB

LLI Sample # SW 6715898  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 13:25

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1711 SDG#: PH017-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-523-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-523-SA5C-SB

LLI Sample # SW 6715898  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/09/2012 13:25

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Submitted: 07/11/2012 09:25

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H1711 SDG#: PH017-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0260 U	0.0260	1.05	1
11031	12378-PeCDD	40321-76-4	0.0495 JBQ	0.0215	5.23	1
11031	123478-HxCDD	39227-28-6	0.0320 JQ	0.0242	5.23	1
11031	123678-HxCDD	57653-85-7	0.173 J	0.0239	5.23	1
11031	123789-HxCDD	19408-74-3	0.150 J	0.0233	5.23	1
11031	1234678-HpCDD	35822-46-9	2.27 JB	0.0231	5.23	1
11031	OCDD	3268-87-9	29.6 B	0.0222	10.5	1
11031	2378-TCDF	51207-31-9	0.0296 U	0.0296	1.05	1
11031	12378-PeCDF	57117-41-6	0.0168 U	0.0168	5.23	1
11031	23478-PeCDF	57117-31-4	0.0579 JBQ	0.0157	5.23	1
11031	123478-HxCDF	70648-26-9	0.0301 JB	0.0151	5.23	1
11031	123678-HxCDF	57117-44-9	0.0471 JQ	0.0138	5.23	1
11031	123789-HxCDF	72918-21-9	0.0982 JBQ	0.0130	5.23	1
11031	234678-HxCDF	60851-34-5	0.0413 JBQ	0.0134	5.23	1
11031	1234678-HpCDF	67562-39-4	0.248 JB	0.0111	5.23	1
11031	1234789-HpCDF	55673-89-7	0.0339 JQ	0.0117	5.23	1
11031	OCDF	39001-02-0	0.444 JQ	0.0210	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	100	23 - 140
13C12-OCDD	104	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	90	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	92	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	97	26 - 138
13C12-OCDF	100	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-523-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-523-SA5C-SB

**LLI Sample #** SW 6715898  
**LLI Group #** 1321233  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 13:25

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

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Fairfax VA 22030

H1711 SDG#: PH017-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-523-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-523-SA5C-SB

LLI Sample # SW 6715898  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 13:25

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1711 SDG#: PH017-11

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 01:55	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401B	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-754-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-754-SA5C-SB

LLI Sample # SW 6715899  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:40

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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Fairfax VA 22030

H1712 SDG#: PH017-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-754-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-754-SA5C-SB

LLI Sample # SW 6715899  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/09/2012 14:40

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1712 SDG#: PH017-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0356 J	0.0353	1.05	1
11031	12378-PeCDD	40321-76-4	0.0901 JB	0.0284	5.27	1
11031	123478-HxCDD	39227-28-6	0.0215 U	0.0215	5.27	1
11031	123678-HxCDD	57653-85-7	0.127 JQ	0.0230	5.27	1
11031	123789-HxCDD	19408-74-3	0.164 J	0.0226	5.27	1
11031	1234678-HpCDD	35822-46-9	1.05 JB	0.0225	5.27	1
11031	OCDD	3268-87-9	7.98 JB	0.0287	10.5	1
11031	2378-TCDF	51207-31-9	0.0314 U	0.0314	1.05	1
11031	12378-PeCDF	57117-41-6	0.0454 JBQ	0.0184	5.27	1
11031	23478-PeCDF	57117-31-4	0.0581 JBQ	0.0165	5.27	1
11031	123478-HxCDF	70648-26-9	0.0284 JB	0.0128	5.27	1
11031	123678-HxCDF	57117-44-9	0.0273 JQ	0.0126	5.27	1
11031	123789-HxCDF	72918-21-9	0.213 JB	0.0163	5.27	1
11031	234678-HxCDF	60851-34-5	0.0180 JBQ	0.0123	5.27	1
11031	1234678-HpCDF	67562-39-4	0.158 JB	0.0168	5.27	1
11031	1234789-HpCDF	55673-89-7	0.0400 JQ	0.0211	5.27	1
11031	OCDF	39001-02-0	0.294 J	0.0246	10.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	92	32 - 141
13C12-123678-HxCDD	89	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	98	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	88	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	90	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	100	26 - 138
13C12-OCDF	97	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-754-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-754-SA5C-SB

LLI Sample # SW 6715899  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:40

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1712 SDG#: PH017-12

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-754-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-754-SA5C-SB

LLI Sample # SW 6715899  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:40

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1712 SDG#: PH017-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 22:21	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401B	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-754-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-754-SA5C-SB

LLI Sample # SW 6715900  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:45

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1713 SDG#: PH017-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-754-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-754-SA5C-SB

LLI Sample # SW 6715900  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/09/2012 14:45

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1713 SDG#: PH017-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0281	U	0.0281	1.10	1
11031	12378-PeCDD	40321-76-4	0.0246	U	0.0246	5.48	1
11031	123478-HxCDD	39227-28-6	0.0288	JQ	0.0198	5.48	1
11031	123678-HxCDD	57653-85-7	0.115	J	0.0195	5.48	1
11031	123789-HxCDD	19408-74-3	0.149	JQ	0.0187	5.48	1
11031	1234678-HpCDD	35822-46-9	1.50	JB	0.0190	5.48	1
11031	OCDD	3268-87-9	14.3	B	0.0198	11.0	1
11031	2378-TCDF	51207-31-9	0.0226	U	0.0226	1.10	1
11031	12378-PeCDF	57117-41-6	0.0539	JB	0.0142	5.48	1
11031	23478-PeCDF	57117-31-4	0.0559	JB	0.0136	5.48	1
11031	123478-HxCDF	70648-26-9	0.0233	JBQ	0.0167	5.48	1
11031	123678-HxCDF	57117-44-9	0.0466	J	0.0129	5.48	1
11031	123789-HxCDF	72918-21-9	0.0636	JB	0.0116	5.48	1
11031	234678-HxCDF	60851-34-5	0.0546	JB	0.0117	5.48	1
11031	1234678-HpCDF	67562-39-4	0.207	JB	0.0110	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0186	JQ	0.0119	5.48	1
11031	OCDF	39001-02-0	0.471	J	0.0209	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	86	25 - 164
13C12-12378-PeCDD	97	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	100	23 - 140
13C12-OCDD	98	17 - 157
13C12-2378-TCDF	86	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	97	21 - 178
13C12-123478-HxCDF	68	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	101	29 - 147
13C12-1234678-HpCDF	91	28 - 143
13C12-1234789-HpCDF	102	26 - 138
13C12-OCDF	99	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-754-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-754-SA5C-SB

**LLI Sample #** SW 6715900  
**LLI Group #** 1321233  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:45

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

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H1713 SDG#: PH017-13

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-754-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-754-SA5C-SB

LLI Sample # SW 6715900  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:45

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1713 SDG#: PH017-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 23:17	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401B	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-754-SA5C-SB-6.5-7.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-754-SA5C-SB

LLI Sample # SW 6715901  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:50

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

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Fairfax VA 22030

H1714 SDG#: PH017-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-754-SA5C-SB-6.5-7.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-754-SA5C-SB

LLI Sample # SW 6715901  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/09/2012 14:50

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1714 SDG#: PH017-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.100 JQ	0.0327	1.02	1
11031	12378-PeCDD	40321-76-4	0.0992 JBQ	0.0279	5.10	1
11031	123478-HxCDD	39227-28-6	0.0324 JQ	0.0206	5.10	1
11031	123678-HxCDD	57653-85-7	0.0711 J	0.0201	5.10	1
11031	123789-HxCDD	19408-74-3	0.0534 JQ	0.0188	5.10	1
11031	1234678-HpCDD	35822-46-9	0.261 JB	0.0169	5.10	1
11031	OCDD	3268-87-9	1.27 JB	0.0183	10.2	1
11031	2378-TCDF	51207-31-9	0.0271 U	0.0271	1.02	1
11031	12378-PeCDF	57117-41-6	0.0529 JBQ	0.0136	5.10	1
11031	23478-PeCDF	57117-31-4	0.0992 JB	0.0141	5.10	1
11031	123478-HxCDF	70648-26-9	0.0677 JBQ	0.0130	5.10	1
11031	123678-HxCDF	57117-44-9	0.0485 JQ	0.0124	5.10	1
11031	123789-HxCDF	72918-21-9	0.0452 JBQ	0.0125	5.10	1
11031	234678-HxCDF	60851-34-5	0.0371 JBQ	0.0120	5.10	1
11031	1234678-HpCDF	67562-39-4	0.0559 JB	0.00872	5.10	1
11031	1234789-HpCDF	55673-89-7	0.0370 JQ	0.0105	5.10	1
11031	OCDF	39001-02-0	0.0786 JQ	0.0180	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	93	28 - 130
13C12-1234678-HpCDD	108	23 - 140
13C12-OCDD	116	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	102	24 - 185
13C12-23478-PeCDF	93	21 - 178
13C12-123478-HxCDF	87	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	91	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	115	28 - 143
13C12-1234789-HpCDF	110	26 - 138
13C12-OCDF	112	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-754-SA5C-SB-6.5-7.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-754-SA5C-SB

LLI Sample # SW 6715901  
 LLI Group # 1321233  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:50

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Submitted: 07/11/2012 09:25

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H1714 SDG#: PH017-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-754-SA5C-SB-6.5-7.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-754-SA5C-SB

LLI Sample # SW 6715901  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:50

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Submitted: 07/11/2012 09:25

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H1714 SDG#: PH017-14

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/19/2012 00:14	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401B	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-533-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-533-SA5C-SB

LLI Sample # SW 6715902  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 13:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1715 SDG#: PH017-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-533-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-533-SA5C-SB

LLI Sample # SW 6715902  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 13:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1715 SDG#: PH017-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0813 JQ	0.0454	1.07	1
11031	12378-PeCDD	40321-76-4	0.180 JBQ	0.0385	5.37	1
11031	123478-HxCDD	39227-28-6	0.0623 JQ	0.0277	5.37	1
11031	123678-HxCDD	57653-85-7	0.0647 J	0.0292	5.37	1
11031	123789-HxCDD	19408-74-3	0.141 JQ	0.0256	5.37	1
11031	1234678-HpCDD	35822-46-9	0.451 JB	0.0246	5.37	1
11031	OCDD	3268-87-9	2.48 JB	0.0231	10.7	1
11031	2378-TCDF	51207-31-9	0.0358 U	0.0358	1.07	1
11031	12378-PeCDF	57117-41-6	0.232 JBQ	0.0211	5.37	1
11031	23478-PeCDF	57117-31-4	0.232 JBQ	0.0199	5.37	1
11031	123478-HxCDF	70648-26-9	0.125 JBQ	0.0210	5.37	1
11031	123678-HxCDF	57117-44-9	0.124 JQ	0.0189	5.37	1
11031	123789-HxCDF	72918-21-9	0.154 JBQ	0.0169	5.37	1
11031	234678-HxCDF	60851-34-5	0.108 JB	0.0174	5.37	1
11031	1234678-HpCDF	67562-39-4	0.133 JBQ	0.0120	5.37	1
11031	1234789-HpCDF	55673-89-7	0.0993 JQ	0.0143	5.37	1
11031	OCDF	39001-02-0	0.205 JQ	0.0267	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	77	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	79	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	96	23 - 140
13C12-OCDD	110	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	95	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	96	26 - 138
13C12-OCDF	101	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-533-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-533-SA5C-SB

**LLI Sample #** SW 6715902  
**LLI Group #** 1321233  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 13:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1715 SDG#: PH017-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-533-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-533-SA5C-SB

LLI Sample # SW 6715902  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 13:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1715 SDG#: PH017-15

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 08:44	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401B	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-533-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-533-SA5C-SB

LLI Sample # SW 6715903  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:00

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1716 SDG#: PH017-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-533-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-533-SA5C-SB

LLI Sample # SW 6715903  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:00

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1716 SDG#: PH017-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.116 JQ	0.0481	1.09	1
11031	12378-PeCDD	40321-76-4	0.120 JB	0.0404	5.44	1
11031	123478-HxCDD	39227-28-6	0.0431 J	0.0293	5.44	1
11031	123678-HxCDD	57653-85-7	0.0808 JQ	0.0298	5.44	1
11031	123789-HxCDD	19408-74-3	0.0809 JQ	0.0270	5.44	1
11031	1234678-HpCDD	35822-46-9	0.659 JBQ	0.0300	5.44	1
11031	OCDD	3268-87-9	6.40 JB	0.0226	10.9	1
11031	2378-TCDF	51207-31-9	0.0412 U	0.0412	1.09	1
11031	12378-PeCDF	57117-41-6	0.162 JB	0.0207	5.44	1
11031	23478-PeCDF	57117-31-4	0.195 JBQ	0.0210	5.44	1
11031	123478-HxCDF	70648-26-9	0.139 JB	0.0217	5.44	1
11031	123678-HxCDF	57117-44-9	0.0805 J	0.0202	5.44	1
11031	123789-HxCDF	72918-21-9	0.0536 JBQ	0.0212	5.44	1
11031	234678-HxCDF	60851-34-5	0.0647 JB	0.0187	5.44	1
11031	1234678-HpCDF	67562-39-4	0.165 JB	0.0157	5.44	1
11031	1234789-HpCDF	55673-89-7	0.0613 JQ	0.0188	5.44	1
11031	OCDF	39001-02-0	0.297 J	0.0308	10.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	88	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	108	23 - 140
13C12-OCDD	118	17 - 157
13C12-2378-TCDF	82	24 - 169
13C12-12378-PeCDF	104	24 - 185
13C12-23478-PeCDF	95	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	86	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	90	29 - 147
13C12-1234678-HpCDF	109	28 - 143
13C12-1234789-HpCDF	109	26 - 138
13C12-OCDF	113	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-533-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-533-SA5C-SB

LLI Sample # SW 6715903  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:00

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

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H1716 SDG#: PH017-16

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-533-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-533-SA5C-SB

LLI Sample # SW 6715903  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/09/2012 14:00

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1716 SDG#: PH017-16

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 09:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401B	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-755-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-755-SA5C-SB

LLI Sample # SW 6715904  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 07:15

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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Fairfax VA 22030

H1717 SDG#: PH017-17

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	2.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-755-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-755-SA5C-SB

LLI Sample # SW 6715904  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/10/2012 07:15

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:57

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H1717 SDG#: PH017-17

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0534	J	0.0377	0.996	1
11031	12378-PeCDD	40321-76-4	0.415	JBQ	0.0487	4.98	1
11031	123478-HxCDD	39227-28-6	0.484	JQ	0.0511	4.98	1
11031	123678-HxCDD	57653-85-7	2.18	J	0.0496	4.98	1
11031	123789-HxCDD	19408-74-3	1.16	J	0.0432	4.98	1
11031	1234678-HpCDD	35822-46-9	58.1	B	0.0803	4.98	1
11031	OCDD	3268-87-9	834	B	0.0520	9.96	1
11031	2378-TCDF	51207-31-9	0.0513	J	0.0438	0.996	1
11031	12378-PeCDF	57117-41-6	0.274	JB	0.0245	4.98	1
11031	23478-PeCDF	57117-31-4	0.248	JBQ	0.0251	4.98	1
11031	123478-HxCDF	70648-26-9	0.484	JB	0.0329	4.98	1
11031	123678-HxCDF	57117-44-9	0.289	J	0.0313	4.98	1
11031	123789-HxCDF	72918-21-9	0.577	JB	0.0287	4.98	1
11031	234678-HxCDF	60851-34-5	0.243	JB	0.0293	4.98	1
11031	1234678-HpCDF	67562-39-4	7.97	B	0.0294	4.98	1
11031	1234789-HpCDF	55673-89-7	0.544	J	0.0350	4.98	1
11031	OCDF	39001-02-0	18.3		0.0328	9.96	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	106	23 - 140
13C12-OCDD	116	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	98	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	102	29 - 147
13C12-1234678-HpCDF	108	28 - 143
13C12-1234789-HpCDF	105	26 - 138
13C12-OCDF	110	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-755-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-755-SA5C-SB

LLI Sample # SW 6715904  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 07:15

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1717 SDG#: PH017-17

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-755-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-755-SA5C-SB

LLI Sample # SW 6715904  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 07:15

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1717 SDG#: PH017-17

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 10:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401B	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-755-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-755-SA5C-SB

LLI Sample # SW 6715905  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 07:20

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1718 SDG#: PH017-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-755-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-755-SA5C-SB

LLI Sample # SW 6715905  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/10/2012 07:20

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1718 SDG#: PH017-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0604 J	0.0400	1.11	1
11031	12378-PeCDD	40321-76-4	0.0782 JBQ	0.0346	5.55	1
11031	123478-HxCDD	39227-28-6	0.0943 J	0.0365	5.55	1
11031	123678-HxCDD	57653-85-7	0.688 J	0.0357	5.55	1
11031	123789-HxCDD	19408-74-3	0.194 J	0.0347	5.55	1
11031	1234678-HpCDD	35822-46-9	24.3 B	0.0646	5.55	1
11031	OCDD	3268-87-9	378 B	0.0405	11.1	1
11031	2378-TCDF	51207-31-9	0.0363 JQ	0.0322	1.11	1
11031	12378-PeCDF	57117-41-6	0.0423 JBQ	0.0172	5.55	1
11031	23478-PeCDF	57117-31-4	0.0668 JB	0.0165	5.55	1
11031	123478-HxCDF	70648-26-9	0.0680 JB	0.0229	5.55	1
11031	123678-HxCDF	57117-44-9	0.0650 JQ	0.0194	5.55	1
11031	123789-HxCDF	72918-21-9	0.0714 JBQ	0.0213	5.55	1
11031	234678-HxCDF	60851-34-5	0.0906 JB	0.0190	5.55	1
11031	1234678-HpCDF	67562-39-4	2.13 JB	0.0170	5.55	1
11031	1234789-HpCDF	55673-89-7	0.182 JQ	0.0235	5.55	1
11031	OCDF	39001-02-0	5.54 J	0.0296	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	89	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	85	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	105	23 - 140
13C12-OCDD	113	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	93	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	82	29 - 147
13C12-1234678-HpCDF	112	28 - 143
13C12-1234789-HpCDF	99	26 - 138
13C12-OCDF	100	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-755-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-755-SA5C-SB

LLI Sample # SW 6715905  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 07:20

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1718 SDG#: PH017-18

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-755-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-755-SA5C-SB

LLI Sample # SW 6715905  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 07:20

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1718 SDG#: PH017-18

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 11:34	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401B	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-755-SA5C-SB-5.5-6.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-755-SA5C-SB

LLI Sample # SW 6715906  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 07:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1719 SDG#: PH017-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-755-SA5C-SB-5.5-6.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-755-SA5C-SB

LLI Sample # SW 6715906  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 07:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1719 SDG#: PH017-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.105 JQ	0.0590	1.06	1
11031	12378-PeCDD	40321-76-4	0.0746 JBQ	0.0499	5.32	1
11031	123478-HxCDD	39227-28-6	0.0669 JQ	0.0368	5.32	1
11031	123678-HxCDD	57653-85-7	0.351 JQ	0.0368	5.32	1
11031	123789-HxCDD	19408-74-3	0.111 JQ	0.0333	5.32	1
11031	1234678-HpCDD	35822-46-9	9.69 B	0.0414	5.32	1
11031	OCDD	3268-87-9	130 B	0.0330	10.6	1
11031	2378-TCDF	51207-31-9	0.0582 JQ	0.0330	1.06	1
11031	12378-PeCDF	57117-41-6	0.0370 JBQ	0.0187	5.32	1
11031	23478-PeCDF	57117-31-4	0.0437 JBQ	0.0184	5.32	1
11031	123478-HxCDF	70648-26-9	0.0501 JBQ	0.0176	5.32	1
11031	123678-HxCDF	57117-44-9	0.0372 JQ	0.0163	5.32	1
11031	123789-HxCDF	72918-21-9	0.0381 JBQ	0.0152	5.32	1
11031	234678-HxCDF	60851-34-5	0.0354 JBQ	0.0151	5.32	1
11031	1234678-HpCDF	67562-39-4	0.827 JB	0.0157	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0548 JQ	0.0214	5.32	1
11031	OCDF	39001-02-0	2.38 J	0.0273	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	87	25 - 164
13C12-12378-PeCDD	100	25 - 181
13C12-123478-HxCDD	99	32 - 141
13C12-123678-HxCDD	98	28 - 130
13C12-123789-HxCDD	103	28 - 130
13C12-1234678-HpCDD	122	23 - 140
13C12-OCDD	135	17 - 157
13C12-2378-TCDF	84	24 - 169
13C12-12378-PeCDF	107	24 - 185
13C12-23478-PeCDF	102	21 - 178
13C12-123478-HxCDF	90	26 - 152
13C12-123678-HxCDF	96	26 - 123
13C12-234678-HxCDF	99	28 - 136
13C12-123789-HxCDF	113	29 - 147
13C12-1234678-HpCDF	133	28 - 143
13C12-1234789-HpCDF	117	26 - 138
13C12-OCDF	122	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-755-SA5C-SB-5.5-6.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-755-SA5C-SB

LLI Sample # SW 6715906  
 LLI Group # 1321233  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 07:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1719 SDG#: PH017-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-755-SA5C-SB-5.5-6.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-755-SA5C-SB

LLI Sample # SW 6715906  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 07:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1719 SDG#: PH017-19

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 12:31	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401B	07/17/2012 19:08	Scott W Freisher	1

**Sample Description:** SL-640-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715907  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:40

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1720 SDG#: PH017-20\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-640-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715907  
LLI Group # 1321233  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/10/2012 08:40

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1720 SDG#: PH017-20\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0491 JQ	0.0454	1.08	1
11031	12378-PeCDD	40321-76-4	0.0370 JBQ	0.0357	5.42	1
11031	123478-HxCDD	39227-28-6	0.0272 U	0.0272	5.42	1
11031	123678-HxCDD	57653-85-7	0.0387 JQ	0.0281	5.42	1
11031	123789-HxCDD	19408-74-3	0.0255 U	0.0255	5.42	1
11031	1234678-HpCDD	35822-46-9	0.580 JBQ	0.0255	5.42	1
11031	OCDD	3268-87-9	2.18 JBQ	0.0245	10.8	1
11031	2378-TCDF	51207-31-9	0.0382 U	0.0382	1.08	1
11031	12378-PeCDF	57117-41-6	0.0204 U	0.0204	5.42	1
11031	23478-PeCDF	57117-31-4	0.0202 U	0.0202	5.42	1
11031	123478-HxCDF	70648-26-9	0.0281 JBQ	0.0169	5.42	1
11031	123678-HxCDF	57117-44-9	0.0155 U	0.0155	5.42	1
11031	123789-HxCDF	72918-21-9	0.0472 JBQ	0.0151	5.42	1
11031	234678-HxCDF	60851-34-5	0.0315 JBQ	0.0155	5.42	1
11031	1234678-HpCDF	67562-39-4	0.0996 JBQ	0.0127	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0163 U	0.0163	5.42	1
11031	OCDF	39001-02-0	0.175 JQ	0.0295	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	109	23 - 140
13C12-OCDD	122	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	89	24 - 185
13C12-23478-PeCDF	85	21 - 178
13C12-123478-HxCDF	83	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	87	28 - 136
13C12-123789-HxCDF	97	29 - 147
13C12-1234678-HpCDF	116	28 - 143
13C12-1234789-HpCDF	104	26 - 138
13C12-OCDF	111	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-640-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715907  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:40

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1720 SDG#: PH017-20\*

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-640-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715907  
LLI Group # 1321233  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:40

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:57

Suite 400

Fairfax VA 22030

H1720 SDG#: PH017-20\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12195002	07/18/2012 13:27	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12195002	07/13/2012 11:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12199162401B	07/17/2012 19:08	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/24/12 at 09:57 PM

Group Number: 1321233

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12199162401A	Sample number(s): 6715886-6715897								
Moisture CDM					100		80-120		
Moisture CDM					100		80-120		
Moisture Duplicate CDM					100		80-120		
Batch number: 12199162401B	Sample number(s): 6715898-6715907								
Moisture CDM					100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12195002	Sample number(s): 6715886-6715907								
2378-TCDD	0.0396 U	0.0396	1.00	ng/kg	98		67-158		
12378-PeCDD	0.0436 J	0.0414	5.00	ng/kg	99		70-142		
123478-HxCDD	0.0474 U	0.0474	5.00	ng/kg	100		70-164		
123678-HxCDD	0.0504 U	0.0504	5.00	ng/kg	95		76-134		
123789-HxCDD	0.0460 U	0.0460	5.00	ng/kg	102		64-162		
1234678-HpCDD	0.259 J	0.0697	5.00	ng/kg	97		70-140		
OCDD	0.488 J	0.0595	10.0	ng/kg	97		78-144		
2378-TCDF	0.0388 U	0.0388	1.00	ng/kg	93		75-158		
12378-PeCDF	0.0449 J	0.0221	5.00	ng/kg	98		80-134		
23478-PeCDF	0.0465 J	0.0218	5.00	ng/kg	95		68-160		
123478-HxCDF	0.0411 J	0.0297	5.00	ng/kg	101		72-134		
123678-HxCDF	0.0280 U	0.0280	5.00	ng/kg	102		84-130		
123789-HxCDF	0.0428 J	0.0273	5.00	ng/kg	99		78-130		
234678-HxCDF	0.0307 J	0.0283	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.0935 U	0.0362	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0505 U	0.0505	5.00	ng/kg	97		78-138		
OCDF	0.0731 U	0.0731	10.0	ng/kg	97		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12199162401A	Sample number(s): 6715886-6715897 BKG: 6715888								
Moisture CDM						7.1	7.3	3	20
Moisture CDM						7.1	7.3	3	20
Moisture Duplicate CDM						7.1	7.3	3	20

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/24/12 at 09:57 PM

Group Number: 1321233

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: 12199162401B	Sample number(s): 6715898-6715907 BKG: 6715898							
Moisture CDM					8.7	9.0	3	20
Batch number: 12195002	Sample number(s): 6715886-6715907 UNSPK: 6715888							
2378-TCDD	101	101	67-158	1	25			
12378-PeCDD	101	101	70-142	0	25			
123478-HxCDD	99	100	70-164	2	25			
123678-HxCDD	96	97	76-134	1	25			
123789-HxCDD	104	105	64-162	1	25			
1234678-HpCDD	99	99	70-140	0	25			
OCDD	95	97	78-144	2	25			
2378-TCDF	96	98	75-158	3	25			
12378-PeCDF	99	101	80-134	2	25			
23478-PeCDF	96	97	68-160	1	25			
123478-HxCDF	103	102	72-134	1	25			
123678-HxCDF	100	102	84-130	2	25			
123789-HxCDF	103	103	78-130	1	25			
234678-HxCDF	100	100	70-156	0	25			
1234678-HpCDF	93	93	82-122	0	25			
1234789-HpCDF	99	100	78-138	1	25			
OCDF	98	97	63-170	1	25			

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a. Dioxins/Furans 10-15 day

Batch number: 12195002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6715886	71	76	89	91	90	95
6715887	72	75	78	80	78	94
6715888	72	65	72	75	74	87
6715889	76	70	83	87	83	85
6715890	74	70	80	82	80	86
6715891	70	68	76	77	76	82
6715892	92	81	89	91	89	102
6715893	76	89	82	85	86	98
6715894	81	97	83	85	88	102
6715895	75	87	83	85	88	99
6715896	88	94	80	81	85	95
6715897	80	90	80	82	83	90
6715898	84	90	77	78	81	92
6715899	83	95	88	88	90	77
6715900	86	97	68	81	91	101
6715901	73	93	87	89	91	96
6715902	77	86	74	79	85	95
6715903	88	95	82	86	89	90
6715904	83	91	83	85	87	102

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/24/12 at 09:57 PM

Group Number: 1321233

### Surrogate Quality Control

6715905	82	89	73	81	85	82
6715906	87	102	90	96	99	113
6715907	73	85	83	87	87	97
Blank	88	75	89	92	89	101
MS	76	70	83	87	83	85
MSD	74	70	80	82	80	86
OPR	77	67	81	81	79	89
<hr/>						
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6715886	97	87	81	79	93	92
6715887	107	93	105	77	81	81
6715888	74	65	55	66	75	73
6715889	84	73	64	71	83	83
6715890	86	75	72	71	81	80
6715891	82	74	69	68	74	76
6715892	101	86	81	85	90	90
6715893	107	100	101	86	84	85
6715894	111	108	110	94	86	85
6715895	105	95	86	86	84	83
6715896	95	102	103	96	86	88
6715897	105	95	97	95	87	87
6715898	90	97	100	93	83	83
6715899	103	100	97	90	92	89
6715900	91	102	99	97	86	86
6715901	115	110	112	90	88	88
6715902	98	96	101	85	79	80
6715903	109	109	113	93	86	85
6715904	108	105	110	89	84	83
6715905	112	99	100	89	85	85
6715906	133	117	122	100	99	98
6715907	116	104	111	84	86	87
Blank	95	79	68	77	91	89
MS	84	73	64	71	83	83
MSD	86	75	72	71	81	80
OPR	84	71	62	70	81	81
<hr/>						
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6715886	92	93	90	66	75	
6715887	82	100	116	66	77	
6715888	73	69	59	69	68	
6715889	82	77	69	74	72	
6715890	79	79	76	70	70	
6715891	76	78	74	66	67	
6715892	90	93	92	84	84	
6715893	87	99	105	78	95	
6715894	91	105	112	80	102	
6715895	89	99	98	75	91	
6715896	92	104	108	78	94	
6715897	92	107	115	75	90	
6715898	86	100	104	76	91	
6715899	89	98	98	82	92	
6715900	91	100	98	86	100	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/24/12 at 09:57 PM

Group Number: 1321233

### Surrogate Quality Control

6715901	93	108	116	74	102
6715902	84	96	110	77	89
6715903	89	108	118	82	104
6715904	92	106	116	78	98
6715905	90	105	113	73	93
6715906	103	122	135	84	107
6715907	91	109	122	73	89
Blank	91	86	75	78	78
MS	82	77	69	74	72
MSD	79	79	76	70	70
OPR	81	78	69	69	70
Limits:	28-130	23-140	17-157	24-169	24-185

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.



acct# 13013 Cp# 1321233

Sample# 6715886-907

### SSFL Phase 3 Chain of Custody

CDM Smith  
 DateShipped: 7/10/2012  
 CarrierName: FedEx  
 AirbillNo: 798604707910

Contact Name: Pam Hartman  
 Contact Phone: (818)466-8007

No: 20120710-02  
 Cooler #:   
 Lab: Lancaster  
 Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex C 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBS/PCIS 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes
--------	-----------	--------	----------	-----------------------	------------------	---------------------	-----------	-----------	-------------------	--------------	-----------------	---------------------	-----------------	---------------	--------------	-------------	--------------	----------------------	-----------	-----------------	-----------------	-----------------	-----------------	----------------	-------------------------------	-----------------------	----------------	--------------	----------------------	---------------	----------	-----------	---------------------	----------------------	---------------------	----------------------	----------------------

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	7/10/12									
									<i>[Signature]</i>	7-11-12	9:15

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

July 24, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 07/11/2012  
Group Number: 1321236  
SDG: PH018  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

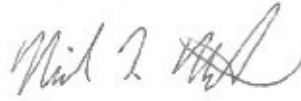
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
SL-640-SA5C-SB-10.0-11.0 Soil	6715911
SL-640-SA5C-SB-15.0-16.0 Soil	6715912
SL-640-SA5C-SB-19.0-20.0 Soil	6715913
SL-641-SA5C-SB-4.0-5.0 Soil	6715914
SL-641-SA5C-SB-9.0-10.0 Soil	6715915
SL-641-SA5C-SB-14.0-15.0 Soil	6715916
SL-641-SA5C-SB-18.5-19.5 Soil	6715917
SL-642-SA5C-SB-4.0-5.0 Soil	6715918
SL-642-SA5C-SB-9.0-10.0 Soil	6715919
SL-642-SA5C-SB-14.0-15.0 Soil	6715920
SL-642-SA5C-SB-17.5-18.5 Soil	6715921

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Attn: Todd Burgesser

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-640-SA5C-SB-10.0-11.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-640-SA5C-SB

LLI Sample # SW 6715911  
 LLI Group # 1321236  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1801 SDG#: PH018-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture CDM	n.a.	13.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-640-SA5C-SB-10.0-11.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715911  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1801 SDG#: PH018-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0280 JBQ	0.0215	1.12	1
11031	12378-PeCDD	40321-76-4	0.0749 JB	0.0245	5.61	1
11031	123478-HxCDD	39227-28-6	0.0530 JBQ	0.0198	5.61	1
11031	123678-HxCDD	57653-85-7	0.0685 JQ	0.0197	5.61	1
11031	123789-HxCDD	19408-74-3	0.0958 JB	0.0188	5.61	1
11031	1234678-HpCDD	35822-46-9	0.455 JB	0.0183	5.61	1
11031	OCDD	3268-87-9	2.48 JB	0.0270	11.2	1
11031	2378-TCDF	51207-31-9	0.0145 U	0.0145	1.12	1
11031	12378-PeCDF	57117-41-6	0.107 JB	0.0100	5.61	1
11031	23478-PeCDF	57117-31-4	0.100 JBQ	0.0110	5.61	1
11031	123478-HxCDF	70648-26-9	0.0446 JB	0.0112	5.61	1
11031	123678-HxCDF	57117-44-9	0.0250 JB	0.00941	5.61	1
11031	123789-HxCDF	72918-21-9	0.0355 JBQ	0.0130	5.61	1
11031	234678-HxCDF	60851-34-5	0.0380 JBQ	0.0100	5.61	1
11031	1234678-HpCDF	67562-39-4	0.110 JBQ	0.00752	5.61	1
11031	1234789-HpCDF	55673-89-7	0.0382 JB	0.0119	5.61	1
11031	OCDF	39001-02-0	0.226 JBQ	0.0253	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	104	32 - 141
13C12-123678-HxCDD	107	28 - 130
13C12-123789-HxCDD	109	28 - 130
13C12-1234678-HpCDD	118	23 - 140
13C12-OCDD	116	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	93	26 - 152
13C12-123678-HxCDF	107	26 - 123
13C12-234678-HxCDF	102	28 - 136
13C12-123789-HxCDF	86	29 - 147
13C12-1234678-HpCDF	139	28 - 143
13C12-1234789-HpCDF	100	26 - 138
13C12-OCDF	94	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-640-SA5C-SB-10.0-11.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715911  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

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H1801 SDG#: PH018-01

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-640-SA5C-SB-10.0-11.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715911  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1801 SDG#: PH018-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/21/2012 16:29	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401A	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-640-SA5C-SB-15.0-16.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715912  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:50

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1802 SDG#: PH018-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-640-SA5C-SB-15.0-16.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715912  
LLI Group # 1321236  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/10/2012 08:50

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1802 SDG#: PH018-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0321 JBQ	0.0268	1.13	1
11031	12378-PeCDD	40321-76-4	0.0506 JBQ	0.0275	5.65	1
11031	123478-HxCDD	39227-28-6	0.0373 JB	0.0204	5.65	1
11031	123678-HxCDD	57653-85-7	0.0581 J	0.0208	5.65	1
11031	123789-HxCDD	19408-74-3	0.0494 JBQ	0.0202	5.65	1
11031	1234678-HpCDD	35822-46-9	0.787 JB	0.0188	5.65	1
11031	OCDD	3268-87-9	4.39 JB	0.0220	11.3	1
11031	2378-TCDF	51207-31-9	0.0222 JQ	0.0187	1.13	1
11031	12378-PeCDF	57117-41-6	0.0125 U	0.0125	5.65	1
11031	23478-PeCDF	57117-31-4	0.0591 JBQ	0.0134	5.65	1
11031	123478-HxCDF	70648-26-9	0.0362 JBQ	0.0134	5.65	1
11031	123678-HxCDF	57117-44-9	0.0311 JBQ	0.0113	5.65	1
11031	123789-HxCDF	72918-21-9	0.0229 JBQ	0.0133	5.65	1
11031	234678-HxCDF	60851-34-5	0.0371 JB	0.0125	5.65	1
11031	1234678-HpCDF	67562-39-4	0.114 JB	0.00872	5.65	1
11031	1234789-HpCDF	55673-89-7	0.0614 JB	0.0148	5.65	1
11031	OCDF	39001-02-0	0.324 JBQ	0.0314	11.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	90	24 - 185
13C12-23478-PeCDF	77	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	77	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	66	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-640-SA5C-SB-15.0-16.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715912  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:50

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Submitted: 07/11/2012 09:25

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H1802 SDG#: PH018-02

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-640-SA5C-SB-15.0-16.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715912  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:50

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Fairfax VA 22030

H1802 SDG#: PH018-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/21/2012 17:25	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401A	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-640-SA5C-SB-19.0-20.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715913  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1803 SDG#: PH018-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	18.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-640-SA5C-SB-19.0-20.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715913  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1803 SDG#: PH018-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0199 U	0.0199	1.19	1
11031	12378-PeCDD	40321-76-4	0.0230 JBQ	0.0219	5.95	1
11031	123478-HxCDD	39227-28-6	0.0271 JB	0.0173	5.95	1
11031	123678-HxCDD	57653-85-7	0.0352 JQ	0.0183	5.95	1
11031	123789-HxCDD	19408-74-3	0.0715 JB	0.0162	5.95	1
11031	1234678-HpCDD	35822-46-9	0.319 JB	0.0145	5.95	1
11031	OCDD	3268-87-9	0.745 JB	0.0279	11.9	1
11031	2378-TCDF	51207-31-9	0.0170 U	0.0170	1.19	1
11031	12378-PeCDF	57117-41-6	0.0419 JBQ	0.00951	5.95	1
11031	23478-PeCDF	57117-31-4	0.0455 JB	0.0105	5.95	1
11031	123478-HxCDF	70648-26-9	0.0205 JB	0.0100	5.95	1
11031	123678-HxCDF	57117-44-9	0.0346 JB	0.00893	5.95	1
11031	123789-HxCDF	72918-21-9	0.0252 JBQ	0.0110	5.95	1
11031	234678-HxCDF	60851-34-5	0.0400 JB	0.00923	5.95	1
11031	1234678-HpCDF	67562-39-4	0.0568 JB	0.00841	5.95	1
11031	1234789-HpCDF	55673-89-7	0.0429 JB	0.0158	5.95	1
11031	OCDF	39001-02-0	0.113 JB	0.0312	11.9	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	77	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	88	23 - 140
13C12-OCDD	81	17 - 157
13C12-2378-TCDF	65	24 - 169
13C12-12378-PeCDF	88	24 - 185
13C12-23478-PeCDF	74	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	70	29 - 147
13C12-1234678-HpCDF	107	28 - 143
13C12-1234789-HpCDF	67	26 - 138
13C12-OCDF	56	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-640-SA5C-SB-19.0-20.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-640-SA5C-SB

LLI Sample # SW 6715913  
 LLI Group # 1321236  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1803 SDG#: PH018-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-640-SA5C-SB-19.0-20.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-640-SA5C-SB

LLI Sample # SW 6715913  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 08:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1803 SDG#: PH018-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/21/2012 18:22	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401A	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-641-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715914  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 10:10

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1804 SDG#: PH018-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-641-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715914  
LLI Group # 1321236  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/10/2012 10:10

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1804 SDG#: PH018-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>						
11031	2378-TCDD	1746-01-6	0.0408 JB	0.0214	1.07	1
11031	12378-PeCDD	40321-76-4	0.0858 JB	0.0299	5.37	1
11031	123478-HxCDD	39227-28-6	0.0463 JB	0.0278	5.37	1
11031	123678-HxCDD	57653-85-7	0.229 J	0.0274	5.37	1
11031	123789-HxCDD	19408-74-3	0.226 JB	0.0256	5.37	1
11031	1234678-HpCDD	35822-46-9	4.64 JB	0.0338	5.37	1
11031	OCDD	3268-87-9	46.1 B	0.0362	10.7	1
11031	2378-TCDF	51207-31-9	0.0316 JQ	0.0256	1.07	1
11031	12378-PeCDF	57117-41-6	0.0862 JBQ	0.0156	5.37	1
11031	23478-PeCDF	57117-31-4	0.0722 JBQ	0.0159	5.37	1
11031	123478-HxCDF	70648-26-9	0.0420 JB	0.0189	5.37	1
11031	123678-HxCDF	57117-44-9	0.0640 JB	0.0159	5.37	1
11031	123789-HxCDF	72918-21-9	0.0627 JBQ	0.0167	5.37	1
11031	234678-HxCDF	60851-34-5	0.0779 JBQ	0.0161	5.37	1
11031	1234678-HpCDF	67562-39-4	0.669 JB	0.0120	5.37	1
11031	1234789-HpCDF	55673-89-7	0.0594 JB	0.0172	5.37	1
11031	OCDF	39001-02-0	1.94 JB	0.0318	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	90	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	89	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	91	21 - 178
13C12-123478-HxCDF	73	26 - 152
13C12-123678-HxCDF	81	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	84	29 - 147
13C12-1234678-HpCDF	97	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	64	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-641-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715914  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 10:10

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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H1804 SDG#: PH018-04

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-641-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715914  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 10:10

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Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1804 SDG#: PH018-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/21/2012 19:18	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401A	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-641-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715915  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 10:20

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1805 SDG#: PH018-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-641-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715915  
LLI Group # 1321236  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/10/2012 10:20

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1805 SDG#: PH018-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0262 U	0.0262	1.06	1
11031	12378-PeCDD	40321-76-4	0.0513 JBQ	0.0372	5.28	1
11031	123478-HxCDD	39227-28-6	0.0344 JBQ	0.0205	5.28	1
11031	123678-HxCDD	57653-85-7	0.0746 J	0.0199	5.28	1
11031	123789-HxCDD	19408-74-3	0.0713 JBQ	0.0187	5.28	1
11031	1234678-HpCDD	35822-46-9	0.706 JB	0.0208	5.28	1
11031	OCDD	3268-87-9	5.51 JB	0.0397	10.6	1
11031	2378-TCDF	51207-31-9	0.0241 JQ	0.0188	1.06	1
11031	12378-PeCDF	57117-41-6	0.0321 JBQ	0.0125	5.28	1
11031	23478-PeCDF	57117-31-4	0.0653 JB	0.0135	5.28	1
11031	123478-HxCDF	70648-26-9	0.0218 JBQ	0.0125	5.28	1
11031	123678-HxCDF	57117-44-9	0.0321 JB	0.0107	5.28	1
11031	123789-HxCDF	72918-21-9	0.0427 JBQ	0.0173	5.28	1
11031	234678-HxCDF	60851-34-5	0.0166 JBQ	0.0112	5.28	1
11031	1234678-HpCDF	67562-39-4	0.152 JB	0.0118	5.28	1
11031	1234789-HpCDF	55673-89-7	0.0218 U	0.0218	5.28	1
11031	OCDF	39001-02-0	0.366 JB	0.0437	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	81	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	74	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	92	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	56	29 - 147
13C12-1234678-HpCDF	99	28 - 143
13C12-1234789-HpCDF	66	26 - 138
13C12-OCDF	52	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-641-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-641-SA5C-SB

LLI Sample # SW 6715915  
 LLI Group # 1321236  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 10:20

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1805 SDG#: PH018-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-641-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715915  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 10:20

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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Fairfax VA 22030

H1805 SDG#: PH018-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/21/2012 20:15	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401A	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-641-SA5C-SB-14.0-15.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-641-SA5C-SB

LLI Sample # SW 6715916  
 LLI Group # 1321236  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 10:25

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

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H1806 SDG#: PH018-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-641-SA5C-SB-14.0-15.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715916  
LLI Group # 1321236  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/10/2012 10:25

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1806 SDG#: PH018-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0476 JB	0.0275	1.11	1
11031	12378-PeCDD	40321-76-4	0.0424 U	0.0424	5.55	1
11031	123478-HxCDD	39227-28-6	0.0500 JBQ	0.0245	5.55	1
11031	123678-HxCDD	57653-85-7	0.0647 J	0.0254	5.55	1
11031	123789-HxCDD	19408-74-3	0.0938 JB	0.0223	5.55	1
11031	1234678-HpCDD	35822-46-9	1.02 JB	0.0228	5.55	1
11031	OCDD	3268-87-9	7.90 JB	0.0548	11.1	1
11031	2378-TCDF	51207-31-9	0.0248 U	0.0248	1.11	1
11031	12378-PeCDF	57117-41-6	0.0426 JBQ	0.0168	5.55	1
11031	23478-PeCDF	57117-31-4	0.108 JBQ	0.0167	5.55	1
11031	123478-HxCDF	70648-26-9	0.0539 JBQ	0.0141	5.55	1
11031	123678-HxCDF	57117-44-9	0.0191 JBQ	0.0119	5.55	1
11031	123789-HxCDF	72918-21-9	0.0238 JB	0.0149	5.55	1
11031	234678-HxCDF	60851-34-5	0.0356 JB	0.0127	5.55	1
11031	1234678-HpCDF	67562-39-4	0.143 JB	0.0119	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0399 JB	0.0202	5.55	1
11031	OCDF	39001-02-0	0.380 JBQ	0.0456	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	74	25 - 164
13C12-12378-PeCDD	92	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	72	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	94	24 - 185
13C12-23478-PeCDF	87	21 - 178
13C12-123478-HxCDF	69	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	73	28 - 136
13C12-123789-HxCDF	67	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	64	26 - 138
13C12-OCDF	56	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-641-SA5C-SB-14.0-15.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715916  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 10:25

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1806 SDG#: PH018-06

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-641-SA5C-SB-14.0-15.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715916  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 10:25

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1806 SDG#: PH018-06

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/21/2012 21:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401A	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-641-SA5C-SB-18.5-19.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715917  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 10:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1807 SDG#: PH018-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-641-SA5C-SB-18.5-19.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715917  
LLI Group # 1321236  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/10/2012 10:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1807 SDG#: PH018-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0254 U	0.0254	1.11	1
11031	12378-PeCDD	40321-76-4	0.0312 JBQ	0.0219	5.55	1
11031	123478-HxCDD	39227-28-6	0.0471 JB	0.0175	5.55	1
11031	123678-HxCDD	57653-85-7	0.0588 JQ	0.0186	5.55	1
11031	123789-HxCDD	19408-74-3	0.0498 JBQ	0.0163	5.55	1
11031	1234678-HpCDD	35822-46-9	0.309 JB	0.0167	5.55	1
11031	OCDD	3268-87-9	0.594 JB	0.0292	11.1	1
11031	2378-TCDF	51207-31-9	0.0210 JQ	0.0185	1.11	1
11031	12378-PeCDF	57117-41-6	0.0412 JBQ	0.00986	5.55	1
11031	23478-PeCDF	57117-31-4	0.0287 JB	0.0103	5.55	1
11031	123478-HxCDF	70648-26-9	0.0404 JB	0.00931	5.55	1
11031	123678-HxCDF	57117-44-9	0.0247 JBQ	0.00827	5.55	1
11031	123789-HxCDF	72918-21-9	0.0322 JBQ	0.0106	5.55	1
11031	234678-HxCDF	60851-34-5	0.0255 JBQ	0.00876	5.55	1
11031	1234678-HpCDF	67562-39-4	0.0396 JBQ	0.00768	5.55	1
11031	1234789-HpCDF	55673-89-7	0.0365 JB	0.0128	5.55	1
11031	OCDF	39001-02-0	0.121 JB	0.0269	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	80	32 - 141
13C12-123678-HxCDD	77	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	72	24 - 169
13C12-12378-PeCDF	100	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	76	26 - 152
13C12-123678-HxCDF	84	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	103	28 - 143
13C12-1234789-HpCDF	73	26 - 138
13C12-OCDF	66	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-641-SA5C-SB-18.5-19.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715917  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 10:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Fairfax VA 22030

H1807 SDG#: PH018-07

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-641-SA5C-SB-18.5-19.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-641-SA5C-SB

LLI Sample # SW 6715917  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 10:30

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1807 SDG#: PH018-07

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/21/2012 22:08	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401A	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-642-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715918  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 12:40

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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Fairfax VA 22030

H1808 SDG#: PH018-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.8	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-642-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715918  
LLI Group # 1321236  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/10/2012 12:40

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1808 SDG#: PH018-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0261 U	0.0261	1.06	1
11031	12378-PeCDD	40321-76-4	0.0840 JBQ	0.0299	5.32	1
11031	123478-HxCDD	39227-28-6	0.0554 JBQ	0.0173	5.32	1
11031	123678-HxCDD	57653-85-7	0.103 J	0.0178	5.32	1
11031	123789-HxCDD	19408-74-3	0.0773 JBQ	0.0162	5.32	1
11031	1234678-HpCDD	35822-46-9	0.527 JB	0.0152	5.32	1
11031	OCDD	3268-87-9	1.44 JB	0.0275	10.6	1
11031	2378-TCDF	51207-31-9	0.0166 U	0.0166	1.06	1
11031	12378-PeCDF	57117-41-6	0.124 JBQ	0.0121	5.32	1
11031	23478-PeCDF	57117-31-4	0.0123 U	0.0123	5.32	1
11031	123478-HxCDF	70648-26-9	0.0429 JBQ	0.0103	5.32	1
11031	123678-HxCDF	57117-44-9	0.0447 JB	0.00924	5.32	1
11031	123789-HxCDF	72918-21-9	0.0665 JB	0.0102	5.32	1
11031	234678-HxCDF	60851-34-5	0.0303 JBQ	0.00938	5.32	1
11031	1234678-HpCDF	67562-39-4	0.0609 JB	0.00689	5.32	1
11031	1234789-HpCDF	55673-89-7	0.0267 JBQ	0.0115	5.32	1
11031	OCDF	39001-02-0	0.151 JBQ	0.0289	10.6	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	94	25 - 181
13C12-123478-HxCDD	87	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	95	28 - 130
13C12-1234678-HpCDD	100	23 - 140
13C12-OCDD	99	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	104	24 - 185
13C12-23478-PeCDF	96	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	93	26 - 123
13C12-234678-HxCDF	89	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	119	28 - 143
13C12-1234789-HpCDF	87	26 - 138
13C12-OCDF	83	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-642-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-642-SA5C-SB

**LLI Sample #** SW 6715918  
**LLI Group #** 1321236  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 12:40

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Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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H1808 SDG#: PH018-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-642-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715918  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 12:40

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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Fairfax VA 22030

H1808 SDG#: PH018-08

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/21/2012 23:05	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401A	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-642-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715919  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 12:45

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1809 SDG#: PH018-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	7.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-642-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715919  
LLI Group # 1321236  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/10/2012 12:45

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1809 SDG#: PH018-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0760 JBQ	0.0231	1.04	1
11031	12378-PeCDD	40321-76-4	0.258 JBQ	0.0294	5.21	1
11031	123478-HxCDD	39227-28-6	0.127 JB	0.0240	5.21	1
11031	123678-HxCDD	57653-85-7	0.219 J	0.0243	5.21	1
11031	123789-HxCDD	19408-74-3	0.198 JB	0.0233	5.21	1
11031	1234678-HpCDD	35822-46-9	1.04 JB	0.0196	5.21	1
11031	OCDD	3268-87-9	6.75 JB	0.0221	10.4	1
11031	2378-TCDF	51207-31-9	0.0726 J	0.0225	1.04	1
11031	12378-PeCDF	57117-41-6	0.250 JB	0.0133	5.21	1
11031	23478-PeCDF	57117-31-4	0.170 JBQ	0.0135	5.21	1
11031	123478-HxCDF	70648-26-9	0.0991 JBQ	0.0166	5.21	1
11031	123678-HxCDF	57117-44-9	0.139 JBQ	0.0139	5.21	1
11031	123789-HxCDF	72918-21-9	0.169 JB	0.0158	5.21	1
11031	234678-HxCDF	60851-34-5	0.0984 JBQ	0.0148	5.21	1
11031	1234678-HpCDF	67562-39-4	0.210 JB	0.00926	5.21	1
11031	1234789-HpCDF	55673-89-7	0.0995 JB	0.0149	5.21	1
11031	OCDF	39001-02-0	0.402 JBQ	0.0271	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	79	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	83	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	82	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	109	28 - 143
13C12-1234789-HpCDF	78	26 - 138
13C12-OCDF	71	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

Sample Description: SL-642-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715919  
LLI Group # 1321236  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/10/2012 12:45

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

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Fairfax VA 22030

H1809 SDG#: PH018-09

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-642-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715919  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 12:45

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1809 SDG#: PH018-09

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/22/2012 03:04	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401A	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-642-SA5C-SB-14.0-15.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715920  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 12:50

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

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H1810 SDG#: PH018-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.9	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-642-SA5C-SB-14.0-15.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715920  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 12:50

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1810 SDG#: PH018-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0335 JB	0.0210	1.10	1
11031	12378-PeCDD	40321-76-4	0.0532 JB	0.0218	5.48	1
11031	123478-HxCDD	39227-28-6	0.0279 JBQ	0.0204	5.48	1
11031	123678-HxCDD	57653-85-7	0.0902 JQ	0.0205	5.48	1
11031	123789-HxCDD	19408-74-3	0.124 JBQ	0.0195	5.48	1
11031	1234678-HpCDD	35822-46-9	0.943 JB	0.0193	5.48	1
11031	OCDD	3268-87-9	6.52 JB	0.0251	11.0	1
11031	2378-TCDF	51207-31-9	0.0214 J	0.0169	1.10	1
11031	12378-PeCDF	57117-41-6	0.0562 JBQ	0.00985	5.48	1
11031	23478-PeCDF	57117-31-4	0.0959 JBQ	0.0109	5.48	1
11031	123478-HxCDF	70648-26-9	0.0881 JB	0.0131	5.48	1
11031	123678-HxCDF	57117-44-9	0.0317 JBQ	0.0108	5.48	1
11031	123789-HxCDF	72918-21-9	0.104 JBQ	0.0124	5.48	1
11031	234678-HxCDF	60851-34-5	0.0429 JBQ	0.0116	5.48	1
11031	1234678-HpCDF	67562-39-4	0.193 JB	0.0100	5.48	1
11031	1234789-HpCDF	55673-89-7	0.0574 JBQ	0.0162	5.48	1
11031	OCDF	39001-02-0	0.480 JB	0.0248	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	93	25 - 181
13C12-123478-HxCDD	85	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	89	28 - 130
13C12-1234678-HpCDD	100	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	108	24 - 185
13C12-23478-PeCDF	92	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	87	26 - 123
13C12-234678-HxCDF	81	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	111	28 - 143
13C12-1234789-HpCDF	82	26 - 138
13C12-OCDF	74	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-642-SA5C-SB-14.0-15.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715920  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 12:50

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1810 SDG#: PH018-10

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-642-SA5C-SB-14.0-15.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-642-SA5C-SB

**LLI Sample #** SW 6715920  
**LLI Group #** 1321236  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 12:50

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

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Reported: 07/24/2012 21:34

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Fairfax VA 22030

H1810 SDG#: PH018-10

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/22/2012 04:01	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401A	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-642-SA5C-SB-17.5-18.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-642-SA5C-SB

LLI Sample # SW 6715921  
 LLI Group # 1321236  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 12:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

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Fairfax VA 22030

H1811 SDG#: PH018-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.1	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-642-SA5C-SB-17.5-18.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715921  
LLI Group # 1321236  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/10/2012 12:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

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H1811 SDG#: PH018-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0404 JB	0.0251	1.07	1
11031	12378-PeCDD	40321-76-4	0.0329 JBQ	0.0238	5.35	1
11031	123478-HxCDD	39227-28-6	0.0160 U	0.0160	5.35	1
11031	123678-HxCDD	57653-85-7	0.0389 JQ	0.0159	5.35	1
11031	123789-HxCDD	19408-74-3	0.0623 JB	0.0148	5.35	1
11031	1234678-HpCDD	35822-46-9	0.258 JBQ	0.0137	5.35	1
11031	OCDD	3268-87-9	0.564 JBQ	0.0239	10.7	1
11031	2378-TCDF	51207-31-9	0.0172 U	0.0172	1.07	1
11031	12378-PeCDF	57117-41-6	0.0297 JB	0.00918	5.35	1
11031	23478-PeCDF	57117-31-4	0.0535 JBQ	0.00958	5.35	1
11031	123478-HxCDF	70648-26-9	0.0331 JBQ	0.00936	5.35	1
11031	123678-HxCDF	57117-44-9	0.0128 JBQ	0.00777	5.35	1
11031	123789-HxCDF	72918-21-9	0.0374 JB	0.00821	5.35	1
11031	234678-HxCDF	60851-34-5	0.0391 JBQ	0.00748	5.35	1
11031	1234678-HpCDF	67562-39-4	0.0686 JBQ	0.00796	5.35	1
11031	1234789-HpCDF	55673-89-7	0.0362 JBQ	0.0114	5.35	1
11031	OCDF	39001-02-0	0.115 JB	0.0248	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	73	25 - 164
13C12-12378-PeCDD	83	25 - 181
13C12-123478-HxCDD	77	32 - 141
13C12-123678-HxCDD	80	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	92	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	86	21 - 178
13C12-123478-HxCDF	64	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	92	28 - 143
13C12-1234789-HpCDF	76	26 - 138
13C12-OCDF	69	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-642-SA5C-SB-17.5-18.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715921  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 12:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1811 SDG#: PH018-11

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-642-SA5C-SB-17.5-18.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-642-SA5C-SB

LLI Sample # SW 6715921  
LLI Group # 1321236  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/10/2012 12:55

CDM Federal Programs Corp.

Submitted: 07/11/2012 09:25

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1811 SDG#: PH018-11

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/22/2012 04:57	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401B	07/18/2012 18:52	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/24/12 at 09:34 PM

Group Number: 1321236

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12200162401A Moisture CDM	Sample number(s): 6715911-6715920				100		80-120		
Batch number: 12200162401B Moisture CDM	Sample number(s): 6715921				100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12201001	Sample number(s): 6715911-6715921								
2378-TCDD	0.0357 J	0.0189	1.00	ng/kg	113		67-158		
12378-PeCDD	0.0410 J	0.0208	5.00	ng/kg	111		70-142		
123478-HxCDD	0.0440 J	0.0159	5.00	ng/kg	107		70-164		
123678-HxCDD	0.0162 U	0.0162	5.00	ng/kg	103		76-134		
123789-HxCDD	0.0572 J	0.0154	5.00	ng/kg	112		64-162		
1234678-HpCDD	0.261 J	0.0144	5.00	ng/kg	105		70-140		
OCDD	0.456 J	0.0206	10.0	ng/kg	103		78-144		
2378-TCDF	0.0152 U	0.0152	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0390 J	0.0101	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0645 J	0.0107	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0448 J	0.0115	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0196 J	0.00920	5.00	ng/kg	102		84-130		
123789-HxCDF	0.0425 J	0.0125	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0355 J	0.0107	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.0590 J	0.00556	5.00	ng/kg	94		82-122		
1234789-HpCDF	0.0460 J	0.0103	5.00	ng/kg	100		78-138		
OCDF	0.117 J	0.0236	10.0	ng/kg	101		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>	
Batch number: 12200162401A Moisture CDM	Sample number(s): 6715911-6715920						BKG: 6715917 13.1	12.7	4	20
Batch number: 12200162401B Moisture CDM	Sample number(s): 6715921						BKG: 6715921 9.1	8.7	4	20

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/24/12 at 09:34 PM

Group Number: 1321236

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a. Dioxins/Furans 10-15 day

Batch number: 12201001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6715911	72	78	93	107	102	86
6715912	72	77	76	84	77	79
6715913	67	74	72	82	76	70
6715914	81	91	73	81	81	84
6715915	71	81	74	82	78	56
6715916	74	87	69	77	73	67
6715917	71	88	76	84	78	72
6715918	76	96	85	93	89	91
6715919	73	81	77	85	82	83
6715920	81	92	75	87	81	83
6715921	73	86	64	74	78	77
Blank	77	80	80	92	83	78
OPR	71	72	70	80	73	71

Limits: 25-164      21-178      26-152      26-123      28-136      29-147

	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6715911	139	100	94	78	104	107
6715912	103	74	66	78	80	80
6715913	107	67	56	77	81	79
6715914	97	78	64	90	82	82
6715915	99	66	52	79	82	81
6715916	93	64	56	92	80	82
6715917	103	73	66	86	80	77
6715918	119	87	83	94	87	88
6715919	109	78	71	79	82	79
6715920	111	82	74	93	85	87
6715921	92	76	69	83	77	80
Blank	122	80	77	83	91	90
OPR	110	67	62	78	81	81

Limits: 28-143      26-138      17-157      25-181      32-141      28-130

	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF
6715911	109	118	116	71	92
6715912	83	88	87	71	90
6715913	83	88	81	65	88
6715914	88	89	79	79	100
6715915	86	83	74	72	92
6715916	86	78	72	71	94
6715917	84	86	87	72	100
6715918	95	100	99	80	104
6715919	83	94	100	73	91
6715920	89	100	95	80	108
6715921	84	87	92	71	96
Blank	95	100	107	69	91
OPR	83	92	94	63	82

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/24/12 at 09:34 PM

Group Number: 1321236

### Surrogate Quality Control

---

Limits: 28-130                      23-140                      17-157                      24-169                      24-185

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct # 13013 Cup # 1321236

sample # 6715911-21  
**SSFL Phase 3 Chain of Custody**

CDM Smith  
Date Shipped: 7/10/2012  
Carrier Name: FedEx  
Airbill No: 798604707910

Contact Name: Pam Hartman  
Contact Phone: (818)466-8007

No: 20120710-02  
Cooler #:   
Lab: Lancaster  
Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	MS/MSD	Other Analysis/Notes
SL-530-SA5C-SB-4.0-5.0	7/9/12 09:05	SO	None	1 - 4 oz glass	10 day		
SL-530-SA5C-SB-9.0-10.0	7/9/12 09:20	SO	None	1 - 4 oz glass	10 day		
SL-522-SA5C-SB-4.0-5.0 MS	7/9/12 10:05	SO	None	1 - 8 oz glass	10 day		MS/MSD
SL-522-SA5C-SB-9.0-10.0	7/9/12 10:15	SO	None	1 - 4 oz glass	10 day		
SL-822-SA5C-SB-4.0-5.0	7/9/12 10:30	SO	None	1 - 4 oz glass	10 day		
SL-531-SA5C-SB-4.0-5.0	7/9/12 11:30	SO	None	1 - 4 oz glass	10 day		
SL-531-SA5C-SB-9.0-10.0	7/9/12 11:35	SO	None	1 - 4 oz glass	10 day		
SL-623-SA5C-SB-4.0-5.0	7/9/12 10:55	SO	None	1 - 4 oz glass	10 day		
SL-623-SA5C-SB-9.0-10.0	7/9/12 11:00	SO	None	1 - 4 oz glass	10 day		
SL-523-SA5C-SB-4.0-5.0	7/9/12 13:20	SO	None	1 - 4 oz glass	10 day		
SL-523-SA5C-SB-9.0-10.0	7/9/12 13:25	SO	None	1 - 4 oz glass	10 day		
SL-754-SA5C-SB-0.0-0.5	7/9/12 14:40	SO	None	1 - 4 oz glass	10 day		
SL-754-SA5C-SB-4.0-5.0	7/9/12 14:45	SO	None	1 - 4 oz glass	10 day		
SL-754-SA5C-SB-6.5-7.5	7/9/12 14:50	SO	None	1 - 4 oz glass	10 day		
SL-533-SA5C-SB-4.0-5.0	7/9/12 13:55	SO	None	1 - 4 oz glass	10 day		
SL-533-SA5C-SB-9.0-10.0	7/9/12 14:00	SO	None	1 - 4 oz glass	10 day		
SL-755-SA5C-SB-0.0-0.5	7/10/12 07:15	SO	None	1 - 4 oz glass	10 day		
SL-755-SA5C-SB-4.0-5.0	7/10/12 07:20	SO	None	1 - 4 oz glass	10 day		
SL-755-SA5C-SB-5.5-6.5	7/10/12 07:30	SO	None	1 - 4 oz glass	10 day		
SL-640-SA5C-SB-5.0-6.0	7/10/12 08:40	SO	None	1 - 4 oz glass	10 day		
SL-640-SA5C-SB-10.0-11.0	7/10/12 08:45	SO	None	1 - 4 oz glass	10 day		
SL-640-SA5C-SB-15.0-16.0	7/10/12 08:50	SO	None	1 - 4 oz glass	10 day		
SL-640-SA5C-SB-19.0-20.0	7/10/12 08:55	SO	None	1 - 4 oz glass	10 day		
SL-641-SA5C-SB-4.0-5.0	7/10/12 10:10	SO	None	1 - 4 oz glass	10 day		
SL-641-SA5C-SB-9.0-10.0	7/10/12 10:20	SO	None	1 - 4 oz glass	10 day		
SL-641-SA5C-SB-14.0-15.0	7/10/12 10:25	SO	None	1 - 4 oz glass	10 day		
SL-641-SA5C-SB-18.5-19.5	7/10/12 10:30	SO	None	1 - 4 oz glass	10 day		
SL-642-SA5C-SB-4.0-5.0	7/10/12 12:40	SO	None	1 - 4 oz glass	10 day		
SL-642-SA5C-SB-9.0-10.0	7/10/12 12:45	SO	None	1 - 4 oz glass	10 day		
SL-642-SA5C-SB-14.0-15.0	7/10/12 12:50	SO	None	1 - 4 oz glass	10 day		
SL-642-SA5C-SB-17.5-18.5	7/10/12 12:55	SO	None	1 - 4 oz glass	10 day		

acct# 13013

Op# 1321236

sample# 6715911-21

# SSFL Phase 3 Chain of Custody

CDM Smith  
Date Shipped: 7/10/2012  
Carrier Name: FedEx  
Airbill No: 798604707910

Contact Name: Pam Hartman  
Contact Phone: (818)466-8007

No: 20120710-02  
Cooler #:   
Lab: Lancaster  
Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PC's 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes
						Methyl Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-GRO 8015	

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	7/10/12									
									<i>[Signature]</i>	7-11-12	9:15

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

July 23, 2012

Project: SSFL Phase 3 Sampling

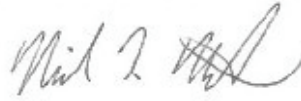
Submittal Date: 07/12/2012  
Group Number: 1321538  
SDG: PH016  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionFB-071112 Water  
SL-586-SA5C-SB-4.0-5.0 Soil  
SL-586-SA5C-SB-9.0-10.0 Soil  
SL-588-SA5C-SB-4.0-5.0 Soil  
SL-588-SA5C-SB-9.0-10.0 Soil  
SL-589-SA5C-SB-4.0-5.0 SoilLancaster Labs (LLI) #6717296  
6717297  
6717298  
6717299  
6717300  
6717301

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

Sample Description: **FB-071112 Water**  
**SSFL Phase 3 Soil Sampling**  
**FB**

LLI Sample # **WW 6717296**  
 LLI Group # **1321538**  
 Account # **13013**

Project Name: **SSFL Phase 3 Sampling**

Collected: 07/11/2012 14:00

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

Suite 400

Fairfax VA 22030

H1617 SDG#: PH016-17FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received EDL*	As Received MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>pg/l</b>		<b>pg/l</b>	<b>pg/l</b>	
10915	2378-TCDD	1746-01-6	0.482	U	0.482	2.11	1
10915	12378-PeCDD	40321-76-4	0.467	U	0.467	10.6	1
10915	123478-HxCDD	39227-28-6	0.459	JBQ	0.314	10.6	1
10915	123678-HxCDD	57653-85-7	0.482	JBQ	0.336	10.6	1
10915	123789-HxCDD	19408-74-3	0.557	JQ	0.296	10.6	1
10915	1234678-HpCDD	35822-46-9	3.69	JBQ	0.331	10.6	1
10915	OCDD	3268-87-9	6.34	JB	0.384	21.1	1
10915	2378-TCDF	51207-31-9	0.415	U	0.415	2.11	1
10915	12378-PeCDF	57117-41-6	0.544	JBQ	0.230	10.6	1
10915	23478-PeCDF	57117-31-4	0.462	JBQ	0.213	10.6	1
10915	123478-HxCDF	70648-26-9	0.326	JB	0.181	10.6	1
10915	123678-HxCDF	57117-44-9	0.246	JBQ	0.177	10.6	1
10915	123789-HxCDF	72918-21-9	0.153	U	0.153	10.6	1
10915	234678-HxCDF	60851-34-5	0.279	JBQ	0.166	10.6	1
10915	1234678-HpCDF	67562-39-4	0.537	JBQ	0.141	10.6	1
10915	1234789-HpCDF	55673-89-7	0.373	JBQ	0.159	10.6	1
10915	OCDF	39001-02-0	1.09	JBQ	0.375	21.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	72	25 - 181
13C12-123478-HxCDD	72	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	83	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	79	24 - 185
13C12-23478-PeCDF	80	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	86	28 - 143
13C12-1234789-HpCDF	91	26 - 138
13C12-OCDF	90	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** FB-071112 Water  
SSFL Phase 3 Soil Sampling  
FB

LLI Sample # WW 6717296  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 14:00

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

Suite 400

Fairfax VA 22030

H1617 SDG#: PH016-17FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received EDL*	As Received MRL	Dilution Factor
S	Saturation of detection signal					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10915	10b. Dioxins/Furans 10-15 day	EPA 1613B	1	12199002	07/20/2012 04:11	Joseph D Anderson	1
10914	Dioxins/Furans in Water - SepF	EPA 1613B	1	12199002	07/18/2012 08:45	Ginelle L Haines	1

**Sample Description:** SL-586-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-586-SA5C-SB

LLI Sample # SW 6717297  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 08:40

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

Suite 400

Fairfax VA 22030

H1618 SDG#: PH016-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	8.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-586-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-586-SA5C-SB

LLI Sample # SW 6717297  
LLI Group # 1321538  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/11/2012 08:40

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

Suite 400

Fairfax VA 22030

H1618 SDG#: PH016-18

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0513 JQ	0.0485	1.08	1
11031	12378-PeCDD	40321-76-4	0.136 JBQ	0.0430	5.42	1
11031	123478-HxCDD	39227-28-6	0.0949 JBQ	0.0325	5.42	1
11031	123678-HxCDD	57653-85-7	0.120 JBQ	0.0347	5.42	1
11031	123789-HxCDD	19408-74-3	0.140 JBQ	0.0311	5.42	1
11031	1234678-HpCDD	35822-46-9	1.61 JB	0.0304	5.42	1
11031	OCDD	3268-87-9	7.37 JB	0.0298	10.8	1
11031	2378-TCDF	51207-31-9	0.0438 U	0.0438	1.08	1
11031	12378-PeCDF	57117-41-6	0.147 J	0.0245	5.42	1
11031	23478-PeCDF	57117-31-4	0.200 JB	0.0240	5.42	1
11031	123478-HxCDF	70648-26-9	0.101 JB	0.0189	5.42	1
11031	123678-HxCDF	57117-44-9	0.0763 JBQ	0.0176	5.42	1
11031	123789-HxCDF	72918-21-9	0.157 JBQ	0.0178	5.42	1
11031	234678-HxCDF	60851-34-5	0.100 JB	0.0177	5.42	1
11031	1234678-HpCDF	67562-39-4	0.201 JB	0.0127	5.42	1
11031	1234789-HpCDF	55673-89-7	0.0803 JBQ	0.0171	5.42	1
11031	OCDF	39001-02-0	0.432 JB	0.0345	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	67	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	73	28 - 130
13C12-123789-HxCDD	77	28 - 130
13C12-1234678-HpCDD	87	23 - 140
13C12-OCDD	91	17 - 157
13C12-2378-TCDF	68	24 - 169
13C12-12378-PeCDF	80	24 - 185
13C12-23478-PeCDF	78	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	83	29 - 147
13C12-1234678-HpCDF	98	28 - 143
13C12-1234789-HpCDF	83	26 - 138
13C12-OCDF	86	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-586-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-586-SA5C-SB

LLI Sample # SW 6717297  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 08:40

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

Suite 400

Fairfax VA 22030

H1618 SDG#: PH016-18

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-586-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-586-SA5C-SB

LLI Sample # SW 6717297  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 08:40

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

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Fairfax VA 22030

H1618 SDG#: PH016-18

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12200001	07/20/2012 12:53	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12200001	07/18/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401B	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-586-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-586-SA5C-SB

LLI Sample # SW 6717298  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

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Fairfax VA 22030

H1619 SDG#: PH016-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.3	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-586-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-586-SA5C-SB

LLI Sample # SW 6717298  
LLI Group # 1321538  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/11/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

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H1619 SDG#: PH016-19

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0392 U	0.0392	1.08	1
11031	12378-PeCDD	40321-76-4	0.0619 JBQ	0.0387	5.39	1
11031	123478-HxCDD	39227-28-6	0.0701 JBQ	0.0388	5.39	1
11031	123678-HxCDD	57653-85-7	0.342 JBQ	0.0409	5.39	1
11031	123789-HxCDD	19408-74-3	0.238 JBQ	0.0369	5.39	1
11031	1234678-HpCDD	35822-46-9	7.60 B	0.0315	5.39	1
11031	OCDD	3268-87-9	38.1 B	0.0300	10.8	1
11031	2378-TCDF	51207-31-9	0.0363 U	0.0363	1.08	1
11031	12378-PeCDF	57117-41-6	0.0729 JQ	0.0188	5.39	1
11031	23478-PeCDF	57117-31-4	0.105 JB	0.0195	5.39	1
11031	123478-HxCDF	70648-26-9	0.0945 JBQ	0.0222	5.39	1
11031	123678-HxCDF	57117-44-9	0.0637 JB	0.0205	5.39	1
11031	123789-HxCDF	72918-21-9	0.148 JBQ	0.0241	5.39	1
11031	234678-HxCDF	60851-34-5	0.0705 JB	0.0197	5.39	1
11031	1234678-HpCDF	67562-39-4	0.248 JBQ	0.0179	5.39	1
11031	1234789-HpCDF	55673-89-7	0.0637 JBQ	0.0244	5.39	1
11031	OCDF	39001-02-0	0.496 JBQ	0.0329	10.8	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	81	25 - 164
13C12-12378-PeCDD	86	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	87	28 - 130
13C12-1234678-HpCDD	103	23 - 140
13C12-OCDD	110	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	96	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	84	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	119	28 - 143
13C12-1234789-HpCDF	104	26 - 138
13C12-OCDF	105	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-586-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-586-SA5C-SB

LLI Sample # SW 6717298  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

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H1619 SDG#: PH016-19

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-586-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-586-SA5C-SB

LLI Sample # SW 6717298  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

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H1619 SDG#: PH016-19

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12200001	07/20/2012 13:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12200001	07/18/2012 12:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401B	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-588-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-588-SA5C-SB

LLI Sample # SW 6717299  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 08:10

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

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Reported: 07/23/2012 13:49

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H1620 SDG#: PH016-20

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-588-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-588-SA5C-SB

LLI Sample # SW 6717299  
LLI Group # 1321538  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/11/2012 08:10

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

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Reported: 07/23/2012 13:49

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H1620 SDG#: PH016-20

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0675	J	0.0550	1.15	1
11031	12378-PeCDD	40321-76-4	0.336	JB	0.0521	5.73	1
11031	123478-HxCDD	39227-28-6	0.379	JB	0.0477	5.73	1
11031	123678-HxCDD	57653-85-7	1.64	JB	0.0501	5.73	1
11031	123789-HxCDD	19408-74-3	1.66	JB	0.0425	5.73	1
11031	1234678-HpCDD	35822-46-9	49.7	B	0.0624	5.73	1
11031	OCDD	3268-87-9	277	B	0.0428	11.5	1
11031	2378-TCDF	51207-31-9	0.0777	JB	0.0578	1.15	1
11031	12378-PeCDF	57117-41-6	0.358	JB	0.0322	5.73	1
11031	23478-PeCDF	57117-31-4	0.280	JB	0.0324	5.73	1
11031	123478-HxCDF	70648-26-9	0.228	JB	0.0294	5.73	1
11031	123678-HxCDF	57117-44-9	0.110	JB	0.0266	5.73	1
11031	123789-HxCDF	72918-21-9	0.901	JB	0.0253	5.73	1
11031	234678-HxCDF	60851-34-5	0.142	JBQ	0.0265	5.73	1
11031	1234678-HpCDF	67562-39-4	0.817	JB	0.0211	5.73	1
11031	1234789-HpCDF	55673-89-7	0.104	JB	0.0294	5.73	1
11031	OCDF	39001-02-0	1.64	JB	0.0334	11.5	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	81	25 - 181
13C12-123478-HxCDD	86	32 - 141
13C12-123678-HxCDD	86	28 - 130
13C12-123789-HxCDD	92	28 - 130
13C12-1234678-HpCDD	99	23 - 140
13C12-OCDD	101	17 - 157
13C12-2378-TCDF	77	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	88	26 - 123
13C12-234678-HxCDF	85	28 - 136
13C12-123789-HxCDF	100	29 - 147
13C12-1234678-HpCDF	116	28 - 143
13C12-1234789-HpCDF	93	26 - 138
13C12-OCDF	90	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

**Sample Description:** SL-588-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-588-SA5C-SB

LLI Sample # SW 6717299  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 08:10

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

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Reported: 07/23/2012 13:49

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H1620 SDG#: PH016-20

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-588-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-588-SA5C-SB

LLI Sample # SW 6717299  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 08:10

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

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Reported: 07/23/2012 13:49

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H1620 SDG#: PH016-20

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12199001	07/19/2012 01:11	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12199001	07/17/2012 13:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401B	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-588-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-588-SA5C-SB

LLI Sample # SW 6717300  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 08:15

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

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Reported: 07/23/2012 13:49

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H1621 SDG#: PH016-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

Sample Description: SL-588-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-588-SA5C-SB

LLI Sample # SW 6717300  
LLI Group # 1321538  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/11/2012 08:15

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

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H1621 SDG#: PH016-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0528 U	0.0528	1.02	1
11031	12378-PeCDD	40321-76-4	0.0421 JBQ	0.0405	5.12	1
11031	123478-HxCDD	39227-28-6	0.0310 U	0.0310	5.12	1
11031	123678-HxCDD	57653-85-7	0.0526 JBQ	0.0315	5.12	1
11031	123789-HxCDD	19408-74-3	0.0299 U	0.0299	5.12	1
11031	1234678-HpCDD	35822-46-9	0.579 JB	0.0292	5.12	1
11031	OCDD	3268-87-9	1.68 JB	0.0267	10.2	1
11031	2378-TCDF	51207-31-9	0.0356 U	0.0356	1.02	1
11031	12378-PeCDF	57117-41-6	0.0315 JB	0.0214	5.12	1
11031	23478-PeCDF	57117-31-4	0.0541 JB	0.0228	5.12	1
11031	123478-HxCDF	70648-26-9	0.0655 JB	0.0201	5.12	1
11031	123678-HxCDF	57117-44-9	0.0547 JBQ	0.0173	5.12	1
11031	123789-HxCDF	72918-21-9	0.0182 JB	0.0172	5.12	1
11031	234678-HxCDF	60851-34-5	0.0620 JB	0.0179	5.12	1
11031	1234678-HpCDF	67562-39-4	0.0405 U	0.0405	5.12	1
11031	1234789-HpCDF	55673-89-7	0.0907 JBQ	0.0637	5.12	1
11031	OCDF	39001-02-0	0.0876 JBQ	0.0344	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	71	25 - 164
13C12-12378-PeCDD	76	25 - 181
13C12-123478-HxCDD	81	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	94	23 - 140
13C12-OCDD	100	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	91	24 - 185
13C12-23478-PeCDF	79	21 - 178
13C12-123478-HxCDF	78	26 - 152
13C12-123678-HxCDF	85	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	91	29 - 147
13C12-1234678-HpCDF	118	28 - 143
13C12-1234789-HpCDF	88	26 - 138
13C12-OCDF	84	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-588-SA5C-SB-9.0-10.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-588-SA5C-SB

**LLI Sample #** SW 6717300  
**LLI Group #** 1321538  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 08:15

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

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Fairfax VA 22030

H1621 SDG#: PH016-21

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-588-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-588-SA5C-SB

LLI Sample # SW 6717300  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 08:15

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

Suite 400

Fairfax VA 22030

H1621 SDG#: PH016-21

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12199001	07/19/2012 02:07	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12199001	07/17/2012 13:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401B	07/18/2012 18:52	Scott W Freisher	1

**Sample Description:** SL-589-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-589-SA5C-SB

LLI Sample # SW 6717301  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 10:10

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

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Reported: 07/23/2012 13:49

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H1622 SDG#: PH016-22\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	13.0	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-589-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-589-SA5C-SB

LLI Sample # SW 6717301  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 10:10

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

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Reported: 07/23/2012 13:49

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H1622 SDG#: PH016-22\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0464 U	0.0464	1.11	1
11031	12378-PeCDD	40321-76-4	0.151 JB	0.0392	5.56	1
11031	123478-HxCDD	39227-28-6	0.0257 JBQ	0.0243	5.56	1
11031	123678-HxCDD	57653-85-7	0.386 JBQ	0.0246	5.56	1
11031	123789-HxCDD	19408-74-3	0.715 JB	0.0232	5.56	1
11031	1234678-HpCDD	35822-46-9	1.16 JB	0.0249	5.56	1
11031	OCDD	3268-87-9	9.59 JB	0.0250	11.1	1
11031	2378-TCDF	51207-31-9	0.0405 U	0.0405	1.11	1
11031	12378-PeCDF	57117-41-6	0.0921 JBQ	0.0202	5.56	1
11031	23478-PeCDF	57117-31-4	0.0915 JBQ	0.0210	5.56	1
11031	123478-HxCDF	70648-26-9	0.0490 JBQ	0.0159	5.56	1
11031	123678-HxCDF	57117-44-9	0.0476 JBQ	0.0145	5.56	1
11031	123789-HxCDF	72918-21-9	0.781 JB	0.0149	5.56	1
11031	234678-HxCDF	60851-34-5	0.0329 JBQ	0.0149	5.56	1
11031	1234678-HpCDF	67562-39-4	0.236 JBQ	0.0303	5.56	1
11031	1234789-HpCDF	55673-89-7	0.0585 JBQ	0.0445	5.56	1
11031	OCDF	39001-02-0	0.728 JB	0.0313	11.1	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	88	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	88	28 - 130
13C12-1234678-HpCDD	98	23 - 140
13C12-OCDD	97	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	104	24 - 185
13C12-23478-PeCDF	94	21 - 178
13C12-123478-HxCDF	85	26 - 152
13C12-123678-HxCDF	89	26 - 123
13C12-234678-HxCDF	88	28 - 136
13C12-123789-HxCDF	96	29 - 147
13C12-1234678-HpCDF	121	28 - 143
13C12-1234789-HpCDF	94	26 - 138
13C12-OCDF	90	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-589-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-589-SA5C-SB

**LLI Sample #** SW 6717301  
**LLI Group #** 1321538  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 10:10

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

Suite 400

Fairfax VA 22030

H1622 SDG#: PH016-22\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-589-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-589-SA5C-SB

LLI Sample # SW 6717301  
LLI Group # 1321538  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 10:10

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/23/2012 13:49

Suite 400

Fairfax VA 22030

H1622 SDG#: PH016-22\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12199001	07/20/2012 14:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12199001	07/17/2012 13:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12200162401B	07/18/2012 18:52	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/23/12 at 01:49 PM

Group Number: 1321538

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
----------------------	---------------------	--------------------	------------------	---------------------	-----------------	------------------	------------------------	------------	----------------

Batch number: 12200162401B  
Moisture CDM

Sample number(s): 6717297-6717301

100 80-120

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
----------------------	---------------------	--------------------	------------------	---------------------	-----------------	------------------	------------------------	------------	----------------

Batch number: 12199001

Sample number(s): 6717299-6717301

2378-TCDD	0.0466 U	0.0466	1.00	ng/kg	102		67-158		
12378-PeCDD	0.0564 J	0.0360	5.00	ng/kg	105		70-142		
123478-HxCDD	0.0373 J	0.0255	5.00	ng/kg	104		70-164		
123678-HxCDD	0.0430 J	0.0255	5.00	ng/kg	99		76-134		
123789-HxCDD	0.0546 J	0.0238	5.00	ng/kg	109		64-162		
1234678-HpCDD	0.318 J	0.0203	5.00	ng/kg	104		70-140		
OCDD	0.621 J	0.0329	10.0	ng/kg	99		78-144		
2378-TCDF	0.0423 J	0.0406	1.00	ng/kg	95		75-158		
12378-PeCDF	0.0535 J	0.0206	5.00	ng/kg	99		80-134		
23478-PeCDF	0.0969 J	0.0212	5.00	ng/kg	97		68-160		
123478-HxCDF	0.0265 J	0.0154	5.00	ng/kg	104		72-134		
123678-HxCDF	0.0244 J	0.0140	5.00	ng/kg	101		84-130		
123789-HxCDF	0.0399 J	0.0142	5.00	ng/kg	103		78-130		
234678-HxCDF	0.0204 J	0.0144	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.0530 J	0.00806	5.00	ng/kg	95		82-122		
1234789-HpCDF	0.0353 J	0.0141	5.00	ng/kg	100		78-138		
OCDF	0.272 J	0.0370	10.0	ng/kg	100		63-170		

Batch number: 12199002

Sample number(s): 6717296

2378-TCDD	0.514 J	0.509	2.00	pg/l	105		67-158		
12378-PeCDD	0.677 J	0.438	10.0	pg/l	105		70-142		
123478-HxCDD	0.668 J	0.317	10.0	pg/l	104		70-164		
123678-HxCDD	0.887 J	0.323	10.0	pg/l	102		76-134		
123789-HxCDD	0.298 U	0.298	10.0	pg/l	108		64-162		
1234678-HpCDD	3.57 J	0.314	10.0	pg/l	105		70-140		
OCDD	4.04 J	0.299	20.0	pg/l	105		78-144		
2378-TCDF	0.546 J	0.390	2.00	pg/l	98		75-158		
12378-PeCDF	0.326 J	0.211	10.0	pg/l	102		80-134		
23478-PeCDF	0.662 J	0.199	10.0	pg/l	98		68-160		
123478-HxCDF	0.646 J	0.189	10.0	pg/l	107		72-134		
123678-HxCDF	0.369 J	0.185	10.0	pg/l	104		84-130		
123789-HxCDF	0.650 J	0.159	10.0	pg/l	105		78-130		
234678-HxCDF	0.297 J	0.173	10.0	pg/l	102		70-156		
1234678-HpCDF	0.475 J	0.118	10.0	pg/l	99		82-122		
1234789-HpCDF	0.320 J	0.132	10.0	pg/l	102		78-138		
OCDF	0.934 J	0.340	20.0	pg/l	104		63-170		

Batch number: 12200001

Sample number(s): 6717297-6717298

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/23/12 at 01:49 PM

Group Number: 1321538

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
2378-TCDD	0.0372 U	0.0372	1.00	ng/kg	121		67-158		
12378-PeCDD	0.0698 J	0.0314	5.00	ng/kg	118		70-142		
123478-HxCDD	0.0387 J	0.0227	5.00	ng/kg	117		70-164		
123678-HxCDD	0.0411 J	0.0233	5.00	ng/kg	113		76-134		
123789-HxCDD	0.0425 J	0.0220	5.00	ng/kg	120		64-162		
1234678-HpCDD	0.316 J	0.0226	5.00	ng/kg	116		70-140		
OCDD	0.693 J	0.0235	10.0	ng/kg	110		78-144		
2378-TCDF	0.0323 U	0.0323	1.00	ng/kg	115		75-158		
12378-PeCDF	0.0182 U	0.0182	5.00	ng/kg	114		80-134		
23478-PeCDF	0.0521 J	0.0172	5.00	ng/kg	112		68-160		
123478-HxCDF	0.0630 J	0.0185	5.00	ng/kg	119		72-134		
123678-HxCDF	0.0624 J	0.0165	5.00	ng/kg	115		84-130		
123789-HxCDF	0.0521 J	0.0197	5.00	ng/kg	117		78-130		
234678-HxCDF	0.0717 J	0.0166	5.00	ng/kg	114		70-156		
1234678-HpCDF	0.101 J	0.00929	5.00	ng/kg	107		82-122		
1234789-HpCDF	0.0480 J	0.0137	5.00	ng/kg	112		78-138		
OCDF	0.158 J	0.0330	10.0	ng/kg	114		63-170		

## Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12200162401B						BKG: P715921			
Moisture CDM						9.1	8.7	4	20

## Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12199001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6717299	79	84	82	88	85	100
6717300	71	79	78	85	83	91
6717301	76	94	85	89	88	96
Blank	80	85	84	92	86	98
OPR	69	67	75	85	78	88
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6717299	116	93	90	81	86	86
6717300	118	88	84	76	81	82
6717301	121	94	90	88	84	84
Blank	136	92	94	86	88	85
OPR	123	82	83	69	79	81

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/23/12 at 01:49 PM

Group Number: 1321538

### Surrogate Quality Control

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6717299	92	99	101	77	91	
6717300	84	94	100	71	91	
6717301	88	98	97	79	104	
Blank	90	107	122	76	93	
OPR	83	96	110	64	76	
Limits:	28-130	23-140	17-157	24-169	24-185	
Analysis Name: 10b. Dioxins/Furans 10-15 day						
Batch number: 12199002						
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6717296	72	80	75	74	78	96
Blank	75	90	84	85	87	108
OPR	72	84	76	77	78	96
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6717296	86	91	90	72	72	72
Blank	97	104	103	83	82	81
OPR	86	90	88	79	72	72
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6717296	75	83	87	73	79	
Blank	84	96	100	82	90	
OPR	74	86	88	76	93	
Limits:	28-130	23-140	17-157	24-169	24-185	
Analysis Name: 10a. Dioxins/Furans 10-15 day						
Batch number: 12200001						
	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6717297	67	78	75	79	76	83
6717298	81	88	84	88	88	79
Blank	69	74	71	77	76	72
OPR	61	69	68	77	72	75
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6717297	98	83	86	76	75	73
6717298	119	104	105	86	86	84
Blank	106	85	86	72	73	75
OPR	105	75	76	72	73	73

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/23/12 at 01:49 PM

Group Number: 1321538

### Surrogate Quality Control

Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	

6717297	77	87	91	68	80
6717298	87	103	110	78	96
Blank	77	92	95	62	76
OPR	74	88	96	58	75

Limits:	28-130	23-140	17-157	24-169	24-185
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\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct# 13013

Op# 1321538

sample# 6717296-301

# SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 7/11/2012

Carrier Name: FedEx

Airbill No: 798609438100

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No:

20120711-02

Cooler #:

Lab:

Lancaster

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Oranide 9012	Energetic 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	GIACols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex C 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes								
FB-071112	7/11/12 14:00	WQ	None	3 - 1 L Amber	10 day					X																																			
SL-586-SA5C-SB-4.0-5.0	7/11/12 08:40	SD	None	1 - 4 oz glass	10 day																																								
SL-586-SA5C-SB-9.0-10.0	7/11/12 08:45	SD	None	1 - 4 oz glass	10 day																																								
SL-588-SA5C-SB-4.0-5.0	7/11/12 08:10	SD	None	1 - 4 oz glass	10 day																																								
SL-588-SA5C-SB-9.0-10.0	7/11/12 08:15	SD	None	1 - 4 oz glass	10 day																																								
SL-589-SA5C-SB-4.0-5.0	7/11/12 10:10	SD	None	1 - 4 oz glass	10 day																																								
SL-591-SA5C-SB-4.0-5.0	7/11/12 09:50	SD	None	1 - 4 oz glass	10 day																																								
SL-592-SA5C-SB-5.0-6.0	7/11/12 07:35	SD	None	1 - 4 oz glass	10 day																																								
SL-607-SA5C-SB-0.0-0.5	7/11/12 11:00	SD	None	1 - 4 oz glass	10 day																																								
SL-607-SA5C-SB-4.0-5.0	7/11/12 11:05	SD	None	1 - 4 oz glass	10 day																																								
SL-607-SA5C-SB-9.0-10.0	7/11/12 11:10	SD	None	1 - 4 oz glass	10 day																																								

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	7/11/12									

*[Signature]* 7/11/12 920

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

July 24, 2012

Project: SSFL Phase 3 Sampling

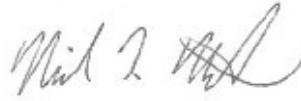
Submittal Date: 07/12/2012  
Group Number: 1321539  
SDG: PH018  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-591-SA5C-SB-4.0-5.0 Soil  
SL-592-SA5C-SB-5.0-6.0 Soil  
SL-607-SA5C-SB-0.0-0.5 Soil  
SL-607-SA5C-SB-4.0-4.5 Soil  
SL-607-SA5C-SB-9.0-10.0 SoilLancaster Labs (LLI) #6717302  
6717303  
6717304  
6717305  
6717306

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
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CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-591-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-591-SA5C-SB

LLI Sample # SW 6717302  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 09:50

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

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H1812 SDG#: PH018-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	12.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-591-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-591-SA5C-SB

LLI Sample # SW 6717302  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 09:50

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H1812 SDG#: PH018-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
<b>EPA 1613B</b>						
11031	2378-TCDD	1746-01-6	0.0225 JBQ	0.0184	1.12	1
11031	12378-PeCDD	40321-76-4	0.114 JB	0.0233	5.58	1
11031	123478-HxCDD	39227-28-6	0.0688 JBQ	0.0197	5.58	1
11031	123678-HxCDD	57653-85-7	0.346 J	0.0181	5.58	1
11031	123789-HxCDD	19408-74-3	0.565 JBQ	0.0173	5.58	1
11031	1234678-HpCDD	35822-46-9	2.08 JB	0.0180	5.58	1
11031	OCDD	3268-87-9	19.3 B	0.0210	11.2	1
11031	2378-TCDF	51207-31-9	0.0198 JQ	0.0181	1.12	1
11031	12378-PeCDF	57117-41-6	0.143 JB	0.0119	5.58	1
11031	23478-PeCDF	57117-31-4	0.0844 JBQ	0.0118	5.58	1
11031	123478-HxCDF	70648-26-9	0.0544 JB	0.0140	5.58	1
11031	123678-HxCDF	57117-44-9	0.0643 JB	0.0117	5.58	1
11031	123789-HxCDF	72918-21-9	0.669 JB	0.0137	5.58	1
11031	234678-HxCDF	60851-34-5	0.0590 JB	0.0103	5.58	1
11031	1234678-HpCDF	67562-39-4	0.310 JB	0.00922	5.58	1
11031	1234789-HpCDF	55673-89-7	0.0311 JB	0.0123	5.58	1
11031	OCDF	39001-02-0	0.707 JB	0.0205	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	84	25 - 164
13C12-12378-PeCDD	84	25 - 181
13C12-123478-HxCDD	82	32 - 141
13C12-123678-HxCDD	88	28 - 130
13C12-123789-HxCDD	90	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	87	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	88	21 - 178
13C12-123478-HxCDF	65	26 - 152
13C12-123678-HxCDF	77	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	72	29 - 147
13C12-1234678-HpCDF	90	28 - 143
13C12-1234789-HpCDF	79	26 - 138
13C12-OCDF	71	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-591-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-591-SA5C-SB

**LLI Sample #** SW 6717302  
**LLI Group #** 1321539  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 09:50

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H1812 SDG#: PH018-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-591-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-591-SA5C-SB

LLI Sample # SW 6717302  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 09:50

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H1812 SDG#: PH018-12

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/22/2012 05:54	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

**Sample Description:** SL-592-SA5C-SB-5.0-6.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-592-SA5C-SB

LLI Sample # SW 6717303  
 LLI Group # 1321539  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 07:35

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H1813 SDG#: PH018-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	%	%	%	
11624	Moisture CDM	n.a.	5.6	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

Sample Description: SL-592-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-592-SA5C-SB

LLI Sample # SW 6717303  
LLI Group # 1321539  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/11/2012 07:35

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H1813 SDG#: PH018-13

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0311	U	0.0311	1.03	1
11031	12378-PeCDD	40321-76-4	0.116	JB	0.0249	5.15	1
11031	123478-HxCDD	39227-28-6	0.170	JB	0.0289	5.15	1
11031	123678-HxCDD	57653-85-7	0.350	JQ	0.0282	5.15	1
11031	123789-HxCDD	19408-74-3	0.323	JB	0.0273	5.15	1
11031	1234678-HpCDD	35822-46-9	8.79	B	0.0428	5.15	1
11031	OCDD	3268-87-9	103	B	0.0371	10.3	1
11031	2378-TCDF	51207-31-9	0.0553	JQ	0.0408	1.03	1
11031	12378-PeCDF	57117-41-6	0.180	JB	0.0213	5.15	1
11031	23478-PeCDF	57117-31-4	0.181	JB	0.0209	5.15	1
11031	123478-HxCDF	70648-26-9	0.326	JB	0.0270	5.15	1
11031	123678-HxCDF	57117-44-9	0.110	JBQ	0.0218	5.15	1
11031	123789-HxCDF	72918-21-9	0.110	JBQ	0.0192	5.15	1
11031	234678-HxCDF	60851-34-5	0.119	JB	0.0182	5.15	1
11031	1234678-HpCDF	67562-39-4	1.06	JB	0.0229	5.15	1
11031	1234789-HpCDF	55673-89-7	0.238	JBQ	0.0268	5.15	1
11031	OCDF	39001-02-0	2.77	JB	0.0328	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	85	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	78	28 - 130
13C12-123789-HxCDD	82	28 - 130
13C12-1234678-HpCDD	81	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	76	24 - 169
13C12-12378-PeCDF	95	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	52	26 - 152
13C12-123678-HxCDF	62	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	77	29 - 147
13C12-1234678-HpCDF	73	28 - 143
13C12-1234789-HpCDF	74	26 - 138
13C12-OCDF	71	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-592-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-592-SA5C-SB

LLI Sample # SW 6717303  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

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H1813 SDG#: PH018-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-592-SA5C-SB-5.0-6.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-592-SA5C-SB

LLI Sample # SW 6717303  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 07:35

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H1813 SDG#: PH018-13

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/22/2012 06:50	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

**Sample Description:** SL-607-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-607-SA5C-SB

LLI Sample # SW 6717304  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 11:00

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

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H1814 SDG#: PH018-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	11.7	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-607-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-607-SA5C-SB

LLI Sample # SW 6717304  
LLI Group # 1321539  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/11/2012 11:00

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H1814 SDG#: PH018-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0198 U	0.0198	1.12	1
11031	12378-PeCDD	40321-76-4	0.0584 JBQ	0.0257	5.60	1
11031	123478-HxCDD	39227-28-6	0.0952 JB	0.0271	5.60	1
11031	123678-HxCDD	57653-85-7	0.157 JQ	0.0271	5.60	1
11031	123789-HxCDD	19408-74-3	0.148 JB	0.0244	5.60	1
11031	1234678-HpCDD	35822-46-9	3.33 JB	0.0360	5.60	1
11031	OCDD	3268-87-9	30.5 B	0.0335	11.2	1
11031	2378-TCDF	51207-31-9	0.0235 U	0.0235	1.12	1
11031	12378-PeCDF	57117-41-6	0.0656 JB	0.0109	5.60	1
11031	23478-PeCDF	57117-31-4	0.105 JBQ	0.0117	5.60	1
11031	123478-HxCDF	70648-26-9	0.0580 JB	0.0118	5.60	1
11031	123678-HxCDF	57117-44-9	0.0922 JBQ	0.0109	5.60	1
11031	123789-HxCDF	72918-21-9	0.0970 JB	0.0142	5.60	1
11031	234678-HxCDF	60851-34-5	0.0764 JB	0.0105	5.60	1
11031	1234678-HpCDF	67562-39-4	0.326 JBQ	0.0359	5.60	1
11031	1234789-HpCDF	55673-89-7	0.132 JBQ	0.0538	5.60	1
11031	OCDF	39001-02-0	0.540 JB	0.0292	11.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	94	25 - 164
13C12-12378-PeCDD	105	25 - 181
13C12-123478-HxCDD	93	32 - 141
13C12-123678-HxCDD	93	28 - 130
13C12-123789-HxCDD	99	28 - 130
13C12-1234678-HpCDD	92	23 - 140
13C12-OCDD	95	17 - 157
13C12-2378-TCDF	94	24 - 169
13C12-12378-PeCDF	126	24 - 185
13C12-23478-PeCDF	109	21 - 178
13C12-123478-HxCDF	87	26 - 152
13C12-123678-HxCDF	95	26 - 123
13C12-234678-HxCDF	93	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	105	28 - 143
13C12-1234789-HpCDF	84	26 - 138
13C12-OCDF	75	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-607-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-607-SA5C-SB

**LLI Sample #** SW 6717304  
**LLI Group #** 1321539  
**Account #** 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 11:00

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Submitted: 07/12/2012 09:20

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H1814 SDG#: PH018-14

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-607-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-607-SA5C-SB

LLI Sample # SW 6717304  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 11:00

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H1814 SDG#: PH018-14

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/22/2012 07:47	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

**Sample Description:** SL-607-SA5C-SB-4.0-4.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-607-SA5C-SB

LLI Sample # SW 6717305  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 11:05

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

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Reported: 07/24/2012 21:34

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H1815 SDG#: PH018-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	10.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

**Sample Description:** SL-607-SA5C-SB-4.0-4.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-607-SA5C-SB

LLI Sample # SW 6717305  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 11:05

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H1815 SDG#: PH018-15

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0230 U	0.0230	1.10	1
11031	12378-PeCDD	40321-76-4	0.0529 JBQ	0.0308	5.50	1
11031	123478-HxCDD	39227-28-6	0.0258 JB	0.0213	5.50	1
11031	123678-HxCDD	57653-85-7	0.0507 JQ	0.0207	5.50	1
11031	123789-HxCDD	19408-74-3	0.0917 JBQ	0.0200	5.50	1
11031	1234678-HpCDD	35822-46-9	0.311 JBQ	0.0177	5.50	1
11031	OCDD	3268-87-9	0.639 JB	0.0363	11.0	1
11031	2378-TCDF	51207-31-9	0.0144 U	0.0144	1.10	1
11031	12378-PeCDF	57117-41-6	0.0542 JB	0.0103	5.50	1
11031	23478-PeCDF	57117-31-4	0.0559 JB	0.0111	5.50	1
11031	123478-HxCDF	70648-26-9	0.0182 JBQ	0.0127	5.50	1
11031	123678-HxCDF	57117-44-9	0.0383 JB	0.00999	5.50	1
11031	123789-HxCDF	72918-21-9	0.0793 JBQ	0.0108	5.50	1
11031	234678-HxCDF	60851-34-5	0.0327 JBQ	0.00866	5.50	1
11031	1234678-HpCDF	67562-39-4	0.0617 JBQ	0.0311	5.50	1
11031	1234789-HpCDF	55673-89-7	0.0870 JBQ	0.0483	5.50	1
11031	OCDF	39001-02-0	0.182 JB	0.0355	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	87	25 - 181
13C12-123478-HxCDD	88	32 - 141
13C12-123678-HxCDD	87	28 - 130
13C12-123789-HxCDD	91	28 - 130
13C12-1234678-HpCDD	90	23 - 140
13C12-OCDD	82	17 - 157
13C12-2378-TCDF	78	24 - 169
13C12-12378-PeCDF	107	24 - 185
13C12-23478-PeCDF	89	21 - 178
13C12-123478-HxCDF	60	26 - 152
13C12-123678-HxCDF	73	26 - 123
13C12-234678-HxCDF	83	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	93	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	57	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-607-SA5C-SB-4.0-4.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-607-SA5C-SB

LLI Sample # SW 6717305  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 11:05

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1815 SDG#: PH018-15

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-607-SA5C-SB-4.0-4.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-607-SA5C-SB

LLI Sample # SW 6717305  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 11:05

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1815 SDG#: PH018-15

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/22/2012 08:43	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

**Sample Description:** SL-607-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-607-SA5C-SB

LLI Sample # SW 6717306  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 11:10

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1816 SDG#: PH018-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	9.5	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-607-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-607-SA5C-SB

LLI Sample # SW 6717306  
LLI Group # 1321539  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/11/2012 11:10

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1816 SDG#: PH018-16

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0231 U	0.0231	1.07	1
11031	12378-PeCDD	40321-76-4	0.0782 JBQ	0.0317	5.33	1
11031	123478-HxCDD	39227-28-6	0.0426 JBQ	0.0161	5.33	1
11031	123678-HxCDD	57653-85-7	0.0742 J	0.0169	5.33	1
11031	123789-HxCDD	19408-74-3	0.0365 JBQ	0.0156	5.33	1
11031	1234678-HpCDD	35822-46-9	0.352 JBQ	0.0191	5.33	1
11031	OCDD	3268-87-9	0.659 JB	0.0387	10.7	1
11031	2378-TCDF	51207-31-9	0.0159 U	0.0159	1.07	1
11031	12378-PeCDF	57117-41-6	0.0838 JB	0.00953	5.33	1
11031	23478-PeCDF	57117-31-4	0.0718 JBQ	0.0107	5.33	1
11031	123478-HxCDF	70648-26-9	0.0478 JBQ	0.0101	5.33	1
11031	123678-HxCDF	57117-44-9	0.0643 JB	0.00879	5.33	1
11031	123789-HxCDF	72918-21-9	0.0836 JBQ	0.0108	5.33	1
11031	234678-HxCDF	60851-34-5	0.0397 JBQ	0.00915	5.33	1
11031	1234678-HpCDF	67562-39-4	0.0497 JBQ	0.0163	5.33	1
11031	1234789-HpCDF	55673-89-7	0.0302 JBQ	0.0275	5.33	1
11031	OCDF	39001-02-0	0.104 JB	0.0340	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	72	25 - 164
13C12-12378-PeCDD	82	25 - 181
13C12-123478-HxCDD	84	32 - 141
13C12-123678-HxCDD	84	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	86	23 - 140
13C12-OCDD	79	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	99	24 - 185
13C12-23478-PeCDF	84	21 - 178
13C12-123478-HxCDF	74	26 - 152
13C12-123678-HxCDF	83	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	101	28 - 143
13C12-1234789-HpCDF	70	26 - 138
13C12-OCDF	57	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-607-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-607-SA5C-SB

LLI Sample # SW 6717306  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 11:10

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1816 SDG#: PH018-16

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-607-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-607-SA5C-SB

LLI Sample # SW 6717306  
LLI Group # 1321539  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 11:10

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/24/2012 21:34

Suite 400

Fairfax VA 22030

H1816 SDG#: PH018-16

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12201001	07/22/2012 09:40	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12201001	07/19/2012 12:30	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/24/12 at 09:34 PM

Group Number: 1321539

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
----------------------	---------------------	--------------------	------------------	---------------------	-----------------	------------------	------------------------	------------	----------------

Batch number: 12201162401A  
Moisture CDM

Sample number(s): 6717302-6717306

100 80-120

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
----------------------	---------------------	--------------------	------------------	---------------------	-----------------	------------------	------------------------	------------	----------------

Batch number: 12201001

Sample number(s): 6717302-6717306

2378-TCDD	0.0357 J	0.0189	1.00	ng/kg	113		67-158		
123478-PeCDD	0.0410 J	0.0208	5.00	ng/kg	111		70-142		
123478-HxCDD	0.0440 J	0.0159	5.00	ng/kg	107		70-164		
123678-HxCDD	0.0162 U	0.0162	5.00	ng/kg	103		76-134		
123789-HxCDD	0.0572 J	0.0154	5.00	ng/kg	112		64-162		
1234678-HpCDD	0.261 J	0.0144	5.00	ng/kg	105		70-140		
OCDD	0.456 J	0.0206	10.0	ng/kg	103		78-144		
2378-TCDF	0.0152 U	0.0152	1.00	ng/kg	102		75-158		
12378-PeCDF	0.0390 J	0.0101	5.00	ng/kg	100		80-134		
23478-PeCDF	0.0645 J	0.0107	5.00	ng/kg	96		68-160		
123478-HxCDF	0.0448 J	0.0115	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0196 J	0.00920	5.00	ng/kg	102		84-130		
123789-HxCDF	0.0425 J	0.0125	5.00	ng/kg	105		78-130		
234678-HxCDF	0.0355 J	0.0107	5.00	ng/kg	101		70-156		
1234678-HpCDF	0.0590 J	0.00556	5.00	ng/kg	94		82-122		
1234789-HpCDF	0.0460 J	0.0103	5.00	ng/kg	100		78-138		
OCDF	0.117 J	0.0236	10.0	ng/kg	101		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
----------------------	----------------	-----------------	----------------------	------------	----------------	-----------------	-----------------	----------------	--------------------

Batch number: 12201162401A  
Moisture CDM

Sample number(s): 6717302-6717306 BKG: P718915  
9.2 8.4 10 20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/24/12 at 09:34 PM

Group Number: 1321539

### Surrogate Quality Control

Analysis Name: 10a. Dioxins/Furans 10-15 day  
Batch number: 12201001

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6717302	84	88	65	77	83	72
6717303	76	89	52	62	76	77
6717304	94	109	87	95	93	79
6717305	76	89	60	73	83	74
6717306	72	84	74	83	80	73
Blank	77	80	80	92	83	78
OPR	71	72	70	80	73	71
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6717302	90	79	71	84	82	88
6717303	73	74	71	85	76	78
6717304	105	84	75	105	93	93
6717305	93	70	57	87	88	87
6717306	101	70	57	82	84	84
Blank	122	80	77	83	91	90
OPR	110	67	62	78	81	81
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6717302	90	92	87	80	95	
6717303	82	81	82	76	95	
6717304	99	92	95	94	126	
6717305	91	90	82	78	107	
6717306	86	86	79	73	99	
Blank	95	100	107	69	91	
OPR	83	92	94	63	82	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

acct# 13013

Qp# 1321539

sample# 6717302-06

# SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 7/11/2012

Carrier Name: FedEx

Airbill No: 798609438100

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No:

20120711-02

Cooler #:

Lab:

Lancaster

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Orranotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7471 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes				
FB-071112	7/11/12 14:00	WQ	None	3 - 1 L Amber	10 day																																		
SL-586-SASC-SB-4.0-5.0	7/11/12 08:40	SO	None	1 - 4 oz glass	10 day				X																														
SL-586-SASC-SB-9.0-10.0	7/11/12 08:45	SO	None	1 - 4 oz glass	10 day																																		
SL-588-SASC-SB-4.0-5.0	7/11/12 08:10	SO	None	1 - 4 oz glass	10 day																																		
SL-588-SASC-SB-9.0-10.0	7/11/12 08:15	SO	None	1 - 4 oz glass	10 day																																		
SL-589-SASC-SB-4.0-5.0	7/11/12 10:10	SO	None	1 - 4 oz glass	10 day																																		
SL-591-SASC-SB-4.0-5.0	7/11/12 09:50	SO	None	1 - 4 oz glass	10 day																																		
SL-592-SASC-SB-5.0-6.0	7/11/12 07:35	SO	None	1 - 4 oz glass	10 day																																		
SL-607-SASC-SB-0.0-0.5	7/11/12 11:00	SO	None	1 - 4 oz glass	10 day																																		
SL-607-SASC-SB-4.0-5.0	7/11/12 11:05	SO	None	1 - 4 oz glass	10 day																																		
SL-607-SASC-SB-9.0-10.0	7/11/12 11:10	SO	None	1 - 4 oz glass	10 day																																		

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	7/11/12									
									<i>[Signature]</i>	7/11/12	920

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

## Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

August 07, 2012

Project: SSFL Phase 3 Sampling

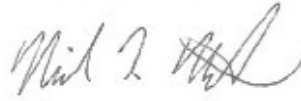
Submittal Date: 07/25/2012  
Group Number: 1324386  
SDG: PT030  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample DescriptionSL-741-SA5C-SB-0.0-0.5 Soil  
SL-741-SA5C-SB-4.0-5.0 Soil  
SL-741-SA5C-SB-9.0-10.0 Soil  
SL-742-SA5C-SB-0.0-0.5 SoilLancaster Labs (LLI) #6732511  
6732512  
6732513  
6732514

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
1 COPY TO      Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-741-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732511  
LLI Group # 1324386  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:20

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/07/2012 16:19

Suite 400

Fairfax VA 22030

T3001 SDG#: PT030-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,200	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	8.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	122100003A	07/31/2012 21:28	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	122100003A	07/29/2012 10:45	Denise L Trimby	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12213162401A	07/31/2012 19:59	Scott W Freisher	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-741-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732512  
LLI Group # 1324386  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:25

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/07/2012 16:19

Suite 400

Fairfax VA 22030

T3002 SDG#: PT030-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,300	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	10.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	122100003A	07/31/2012 21:38	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	122100003A	07/29/2012 10:45	Denise L Trimby	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12213162401A	07/31/2012 19:59	Scott W Freisher	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-741-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732513  
LLI Group # 1324386  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:30

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/07/2012 16:19

Suite 400

Fairfax VA 22030

T3003 SDG#: PT030-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,200	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	7.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	122100003A	07/31/2012 21:47	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	122100003A	07/29/2012 10:45	Denise L Trimby	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12213162401A	07/31/2012 19:59	Scott W Freisher	1

**Sample Description:** SL-742-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-742-SA5C-SB

LLI Sample # SW 6732514  
LLI Group # 1324386  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/07/2012 16:19

Suite 400

Fairfax VA 22030

T3004 SDG#: PT030-04\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
	<b>SW-846 8315A</b>		<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,200 U	1,200	3,000	1
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	0.50 U	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	122100003A	07/31/2012 21:57	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	2	122100003A	07/29/2012 10:45	Denise L Trimby	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12213162401A	07/31/2012 19:59	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 08/07/12 at 04:19 PM

Group Number: 1324386

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 122100003A 20a Formaldehyde 8315A	1,200 U	1,200.	3,000	ug/kg	108		80-126		
Batch number: 12213162401A Moisture Content by 160.3					100		80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 122100003A 20a Formaldehyde 8315A	107	112	80-120	5	50				
Batch number: 12213162401A Moisture Content by 160.3						BKG: 6732511 8.3	8.7	4	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 122100003A  
Butyraldehyde

---

6732511	85
6732512	73
6732513	88
6732514	84
Blank	87
LCS	95
MS	84
MSD	93

---

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

**Quality Control Summary**

Client Name: CDM Federal Programs Corp.  
Reported: 08/07/12 at 04:19 PM

Group Number: 1324386

**Surrogate Quality Control**

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

50 L acct # 13013 Cap # 1324386 Sample # 6732511-14  
**SSFL Phase 3 Chain of Custody**

CDM Smith

Date Shipped: 7/24/2012

Carrier Name: FedEx

Airbill No: 793825487299

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No: 20120724-02

Cooler #:

Lab:

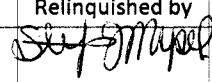
Lancaster


Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PC's 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes										
SL-583-SA5C-SB-0.0-0.5	7/24/12 07:30	SO	None	1 - 4 oz glass	10 day																																										
SL-583-SA5C-SB-4.0-5.0	7/24/12 07:35	SO	None	1 - 4 oz glass	10 day																																										
SL-741-SA5C-SB-0.0-0.5	7/24/12 09:20	SO	None	1 - 8 oz glass	10 day																																										
SL-741-SA5C-SB-4.0-5.0	7/24/12 09:25	SO	None	1 - 8 oz glass	10 day																																										
SL-741-SA5C-SB-9.0-10.0	7/24/12 09:30	SO	None	1 - 8 oz glass	10 day																																										
SL-742-SA5C-SB-0.0-0.5	7/24/12 08:45	SO	None	1 - 8 oz glass	10 day																																										

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY # 

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
		7/24/2012									

 7/25/12 9:20

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m3</b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

August 01, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 07/25/2012

Group Number: 1324387

SDG: PH025

PO Number: 1203-004-009-AL

Release Number: TRACKING #12571

State of Sample Origin: CA

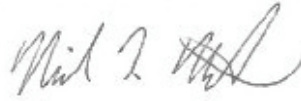
Client Sample DescriptionSL-583-SA5C-SB-0.0-0.5 Soil  
SL-583-SA5C-SB-4.0-5.0 Soil  
SL-741-SA5C-SB-0.0-0.5 Soil  
SL-741-SA5C-SB-4.0-5.0 Soil  
SL-741-SA5C-SB-9.0-10.0 Soil  
SL-742-SA5C-SB-0.0-0.5 SoilLancaster Labs (LLI) #6732515  
6732516  
6732517  
6732518  
6732519  
6732520

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC      CDM Federal Services Program  
COPY TO  
ELECTRONIC      Data Package Group  
COPY TO

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** SL-583-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-583-SA5C-SB

LLI Sample # SW 6732515  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 07:30

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/01/2012 08:52

Suite 400

Fairfax VA 22030

H2501 SDG#: PH025-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	3.4	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

Sample Description: SL-583-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-583-SA5C-SB

LLI Sample # SW 6732515  
LLI Group # 1324387  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/24/2012 07:30

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/01/2012 08:52

Suite 400

Fairfax VA 22030

H2501 SDG#: PH025-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.547	JB	0.0462	1.02	1
11031	12378-PeCDD	40321-76-4	0.583	JB	0.0687	5.10	1
11031	123478-HxCDD	39227-28-6	0.0573	J	0.0449	5.10	1
11031	123678-HxCDD	57653-85-7	0.386	JB	0.0485	5.10	1
11031	123789-HxCDD	19408-74-3	0.563	JB	0.0457	5.10	1
11031	1234678-HpCDD	35822-46-9	0.598	JB	0.0457	5.10	1
11031	OCDD	3268-87-9	3.12	JB	0.0559	10.2	1
11031	2378-TCDF	51207-31-9	0.0263	U	0.0263	1.02	1
11031	12378-PeCDF	57117-41-6	0.0680	JB	0.0226	5.10	1
11031	23478-PeCDF	57117-31-4	0.0805	JB	0.0187	5.10	1
11031	123478-HxCDF	70648-26-9	0.0508	JB	0.0208	5.10	1
11031	123678-HxCDF	57117-44-9	0.0778	JB	0.0206	5.10	1
11031	123789-HxCDF	72918-21-9	0.396	JB	0.0229	5.10	1
11031	234678-HxCDF	60851-34-5	0.0545	JB	0.0189	5.10	1
11031	1234678-HpCDF	67562-39-4	0.144	JB	0.0204	5.10	1
11031	1234789-HpCDF	55673-89-7	0.0481	JB	0.0342	5.10	1
11031	OCDF	39001-02-0	0.164	JBQ	0.0567	10.2	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	79	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	76	32 - 141
13C12-123678-HxCDD	76	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	56	23 - 140
13C12-OCDD	39	17 - 157
13C12-2378-TCDF	74	24 - 169
13C12-12378-PeCDF	66	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	74	29 - 147
13C12-1234678-HpCDF	68	28 - 143
13C12-1234789-HpCDF	44	26 - 138
13C12-OCDF	34	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-583-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-583-SA5C-SB

LLI Sample # SW 6732515  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 07:30

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/01/2012 08:52

Suite 400

Fairfax VA 22030

H2501 SDG#: PH025-01

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-583-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-583-SA5C-SB

LLI Sample # SW 6732515  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 07:30

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/01/2012 08:52

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H2501 SDG#: PH025-01

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12209002	07/30/2012 13:45	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12209002	07/27/2012 13:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12209162401B	07/27/2012 09:16	William C Schwebel	1

**Sample Description:** SL-583-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-583-SA5C-SB

LLI Sample # SW 6732516  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 07:35

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

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Reported: 08/01/2012 08:52

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H2502 SDG#: PH025-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
	<b>EPA 160.3 modified</b>		%	%	%	
11624	Moisture CDM	n.a.	4.2	0.50	0.50	1
"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-583-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-583-SA5C-SB

LLI Sample # SW 6732516  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 07:35

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

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Reported: 08/01/2012 08:52

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H2502 SDG#: PH025-02

CAT No.	Analysis Name	CAS Number	Dry Result		Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>EPA 1613B</b>		<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>
11031	2378-TCDD	1746-01-6	0.0290	U	0.0290	1.03	1
11031	12378-PeCDD	40321-76-4	0.0731	JB	0.0332	5.14	1
11031	123478-HxCDD	39227-28-6	0.0517	J	0.0290	5.14	1
11031	123678-HxCDD	57653-85-7	0.279	JB	0.0294	5.14	1
11031	123789-HxCDD	19408-74-3	0.357	JB	0.0289	5.14	1
11031	1234678-HpCDD	35822-46-9	0.440	JB	0.0312	5.14	1
11031	OCDD	3268-87-9	1.18	JB	0.0406	10.3	1
11031	2378-TCDF	51207-31-9	0.0269	U	0.0269	1.03	1
11031	12378-PeCDF	57117-41-6	0.110	JB	0.0173	5.14	1
11031	23478-PeCDF	57117-31-4	0.0665	JB	0.0165	5.14	1
11031	123478-HxCDF	70648-26-9	0.0383	JB	0.0184	5.14	1
11031	123678-HxCDF	57117-44-9	0.0374	JB	0.0180	5.14	1
11031	123789-HxCDF	72918-21-9	0.688	JB	0.0203	5.14	1
11031	234678-HxCDF	60851-34-5	0.0259	JB	0.0174	5.14	1
11031	1234678-HpCDF	67562-39-4	0.0648	JB	0.0164	5.14	1
11031	1234789-HpCDF	55673-89-7	0.0699	JB	0.0253	5.14	1
11031	OCDF	39001-02-0	0.103	JBQ	0.0374	10.3	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	82	25 - 164
13C12-12378-PeCDD	78	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	83	28 - 130
13C12-123789-HxCDD	79	28 - 130
13C12-1234678-HpCDD	78	23 - 140
13C12-OCDD	64	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	85	24 - 185
13C12-23478-PeCDF	81	21 - 178
13C12-123478-HxCDF	81	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	84	28 - 136
13C12-123789-HxCDF	79	29 - 147
13C12-1234678-HpCDF	88	28 - 143
13C12-1234789-HpCDF	63	26 - 138
13C12-OCDF	57	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

**Sample Description:** SL-583-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-583-SA5C-SB

LLI Sample # SW 6732516  
 LLI Group # 1324387  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 07:35

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

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H2502 SDG#: PH025-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

**Sample Description:** SL-583-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-583-SA5C-SB

LLI Sample # SW 6732516  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 07:35

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

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Reported: 08/01/2012 08:52

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H2502 SDG#: PH025-02

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12209002	07/30/2012 14:41	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12209002	07/27/2012 13:00	Deborah M Zimmerman	1
11624	Moisture CDM	EPA 160.3 modified	1	12209162401B	07/27/2012 09:16	William C Schwebel	1

**Sample Description:** SL-741-SA5C-SB-0.0-0.5 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-741-SA5C-SB

LLI Sample # SW 6732517  
 LLI Group # 1324387  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:20

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

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Reported: 08/01/2012 08:52

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H2503 SDG#: PH025-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 8.3	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-741-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732517  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:20

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Submitted: 07/25/2012 09:20

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H2503 SDG#: PH025-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>		<b>ng/kg</b>	
<b>EPA 1613B</b>			<b>ng/kg</b>		<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0406 JB	0.0261	1.04	1
11031	12378-PeCDD	40321-76-4	0.0510 JB	0.0232	5.21	1
11031	123478-HxCDD	39227-28-6	0.0474 JQ	0.0353	5.21	1
11031	123678-HxCDD	57653-85-7	0.181 JB	0.0363	5.21	1
11031	123789-HxCDD	19408-74-3	0.142 JB	0.0324	5.21	1
11031	1234678-HpCDD	35822-46-9	4.12 JB	0.0387	5.21	1
11031	OCDD	3268-87-9	38.5 B	0.0429	10.4	1
11031	2378-TCDF	51207-31-9	0.0313 U	0.0313	1.04	1
11031	12378-PeCDF	57117-41-6	0.117 JB	0.0209	5.21	1
11031	23478-PeCDF	57117-31-4	0.115 JB	0.0187	5.21	1
11031	123478-HxCDF	70648-26-9	0.0992 JB	0.0279	5.21	1
11031	123678-HxCDF	57117-44-9	0.0838 JB	0.0253	5.21	1
11031	123789-HxCDF	72918-21-9	0.146 JB	0.0299	5.21	1
11031	234678-HxCDF	60851-34-5	0.107 JB	0.0255	5.21	1
11031	1234678-HpCDF	67562-39-4	0.496 JB	0.0232	5.21	1
11031	1234789-HpCDF	55673-89-7	0.0708 JB	0.0291	5.21	1
11031	OCDF	39001-02-0	1.42 JB	0.0411	10.4	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	78	25 - 164
13C12-12378-PeCDD	74	25 - 181
13C12-123478-HxCDD	74	32 - 141
13C12-123678-HxCDD	74	28 - 130
13C12-123789-HxCDD	78	28 - 130
13C12-1234678-HpCDD	66	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	79	24 - 169
13C12-12378-PeCDF	75	24 - 185
13C12-23478-PeCDF	75	21 - 178
13C12-123478-HxCDF	77	26 - 152
13C12-123678-HxCDF	78	26 - 123
13C12-234678-HxCDF	78	28 - 136
13C12-123789-HxCDF	71	29 - 147
13C12-1234678-HpCDF	69	28 - 143
13C12-1234789-HpCDF	60	26 - 138
13C12-OCDF	44	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-741-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732517  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:20

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

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Reported: 08/01/2012 08:52

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Fairfax VA 22030

H2503 SDG#: PH025-03

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-741-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732517  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:20

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Submitted: 07/25/2012 09:20

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H2503 SDG#: PH025-03

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12209002	07/30/2012 15:38	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12209002	07/27/2012 13:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12213162401A	07/31/2012 19:59	Scott W Freisher	1

**Sample Description:** SL-741-SA5C-SB-4.0-5.0 Soil  
 SSFL Phase 3 Soil Sampling  
 SL-741-SA5C-SB

LLI Sample # SW 6732518  
 LLI Group # 1324387  
 Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:25

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

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H2504 SDG#: PH025-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 10.5	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

Sample Description: SL-741-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732518  
LLI Group # 1324387  
Account # 13013

Project Name: SSFL Phase 3 Sampling

Collected: 07/24/2012 09:25

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

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H2504 SDG#: PH025-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0441 JBQ	0.0343	1.10	1
11031	12378-PeCDD	40321-76-4	0.111 JB	0.0303	5.50	1
11031	123478-HxCDD	39227-28-6	0.0720 J	0.0256	5.50	1
11031	123678-HxCDD	57653-85-7	0.115 JB	0.0262	5.50	1
11031	123789-HxCDD	19408-74-3	0.138 JB	0.0242	5.50	1
11031	1234678-HpCDD	35822-46-9	0.553 JB	0.0449	5.50	1
11031	OCDD	3268-87-9	2.91 JB	0.0577	11.0	1
11031	2378-TCDF	51207-31-9	0.0545 JB	0.0268	1.10	1
11031	12378-PeCDF	57117-41-6	0.133 JB	0.0222	5.50	1
11031	23478-PeCDF	57117-31-4	0.113 JB	0.0215	5.50	1
11031	123478-HxCDF	70648-26-9	0.101 JB	0.0188	5.50	1
11031	123678-HxCDF	57117-44-9	0.0767 JBQ	0.0170	5.50	1
11031	123789-HxCDF	72918-21-9	0.0782 JB	0.0183	5.50	1
11031	234678-HxCDF	60851-34-5	0.0629 JBQ	0.0172	5.50	1
11031	1234678-HpCDF	67562-39-4	0.139 JB	0.0209	5.50	1
11031	1234789-HpCDF	55673-89-7	0.0989 JB	0.0301	5.50	1
11031	OCDF	39001-02-0	0.175 JB	0.0539	11.0	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	76	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	75	32 - 141
13C12-123678-HxCDD	72	28 - 130
13C12-123789-HxCDD	75	28 - 130
13C12-1234678-HpCDD	65	23 - 140
13C12-OCDD	51	17 - 157
13C12-2378-TCDF	73	24 - 169
13C12-12378-PeCDF	71	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	72	26 - 152
13C12-123678-HxCDF	74	26 - 123
13C12-234678-HxCDF	74	28 - 136
13C12-123789-HxCDF	73	29 - 147
13C12-1234678-HpCDF	71	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	45	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-741-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732518  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:25

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Submitted: 07/25/2012 09:20

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H2504 SDG#: PH025-04

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CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

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**Sample Description:** SL-741-SA5C-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732518  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:25

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Submitted: 07/25/2012 09:20

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H2504 SDG#: PH025-04

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12209002	07/30/2012 16:35	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12209002	07/27/2012 13:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12213162401A	07/31/2012 19:59	Scott W Freisher	1

**Sample Description:** SL-741-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732519  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:30

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

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H2505 SDG#: PH025-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 7.5	% 0.50	% 0.50	1

**Sample Description:** SL-741-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732519  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:30

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

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Reported: 08/01/2012 08:52

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H2505 SDG#: PH025-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>			<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
	<b>EPA 1613B</b>					
11031	2378-TCDD	1746-01-6	0.0644 JB	0.0286	1.07	1
11031	12378-PeCDD	40321-76-4	0.174 JBQ	0.0280	5.37	1
11031	123478-HxCDD	39227-28-6	0.0706 J	0.0260	5.37	1
11031	123678-HxCDD	57653-85-7	0.106 JBQ	0.0285	5.37	1
11031	123789-HxCDD	19408-74-3	0.107 JBQ	0.0250	5.37	1
11031	1234678-HpCDD	35822-46-9	0.256 JB	0.0308	5.37	1
11031	OCDD	3268-87-9	0.576 JB	0.0405	10.7	1
11031	2378-TCDF	51207-31-9	0.0837 JB	0.0225	1.07	1
11031	12378-PeCDF	57117-41-6	0.187 JB	0.0204	5.37	1
11031	23478-PeCDF	57117-31-4	0.172 JBQ	0.0195	5.37	1
11031	123478-HxCDF	70648-26-9	0.110 JBQ	0.0194	5.37	1
11031	123678-HxCDF	57117-44-9	0.104 JBQ	0.0184	5.37	1
11031	123789-HxCDF	72918-21-9	0.131 JB	0.0203	5.37	1
11031	234678-HxCDF	60851-34-5	0.0692 JB	0.0182	5.37	1
11031	1234678-HpCDF	67562-39-4	0.102 JB	0.0145	5.37	1
11031	1234789-HpCDF	55673-89-7	0.0375 JB	0.0233	5.37	1
11031	OCDF	39001-02-0	0.160 JBQ	0.0478	10.7	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	75	25 - 164
13C12-12378-PeCDD	68	25 - 181
13C12-123478-HxCDD	78	32 - 141
13C12-123678-HxCDD	79	28 - 130
13C12-123789-HxCDD	86	28 - 130
13C12-1234678-HpCDD	70	23 - 140
13C12-OCDD	53	17 - 157
13C12-2378-TCDF	71	24 - 169
13C12-12378-PeCDF	68	24 - 185
13C12-23478-PeCDF	66	21 - 178
13C12-123478-HxCDF	75	26 - 152
13C12-123678-HxCDF	82	26 - 123
13C12-234678-HxCDF	76	28 - 136
13C12-123789-HxCDF	75	29 - 147
13C12-1234678-HpCDF	81	28 - 143
13C12-1234789-HpCDF	55	26 - 138
13C12-OCDF	38	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B* Detected in Method Blank
- U* Undetected
- J* Estimated concentration between Estimated Detection Limit and Minimum Level
- E* Exceeds calibration range
- C* Confirmed quantitation on secondary GC column
- Q* EMPC - Estimated Maximum Possible Concentration
- F* Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-741-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732519  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:30

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/01/2012 08:52

Suite 400

Fairfax VA 22030

H2505 SDG#: PH025-05

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-741-SA5C-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-741-SA5C-SB

LLI Sample # SW 6732519  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 09:30

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/01/2012 08:52

Suite 400

Fairfax VA 22030

H2505 SDG#: PH025-05

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12209002	07/30/2012 20:37	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12209002	07/27/2012 13:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12213162401A	07/31/2012 19:59	Scott W Freisher	1

**Sample Description:** SL-742-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-742-SA5C-SB

LLI Sample # SW 6732520  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/01/2012 08:52

Suite 400

Fairfax VA 22030

H2506 SDG#: PH025-06\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>Wet Chemistry</b>						
11625	Moisture CDM	EPA 160.3 modified n.a.	% 0.50 U	% 0.50	% 0.50	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-742-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-742-SA5C-SB

LLI Sample # SW 6732520  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/01/2012 08:52

Suite 400

Fairfax VA 22030

H2506 SDG#: PH025-06\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
<b>Dioxins/Furans</b>		<b>EPA 1613B</b>	<b>ng/kg</b>	<b>ng/kg</b>	<b>ng/kg</b>	
11031	2378-TCDD	1746-01-6	0.0352 JB	0.0241	0.989	1
11031	12378-PeCDD	40321-76-4	0.0435 JBQ	0.0231	4.95	1
11031	123478-HxCDD	39227-28-6	0.0316 J	0.0273	4.95	1
11031	123678-HxCDD	57653-85-7	0.161 JB	0.0289	4.95	1
11031	123789-HxCDD	19408-74-3	0.113 JB	0.0279	4.95	1
11031	1234678-HpCDD	35822-46-9	1.89 JB	0.0383	4.95	1
11031	OCDD	3268-87-9	19.8 B	0.0309	9.89	1
11031	2378-TCDF	51207-31-9	0.0298 JBQ	0.0272	0.989	1
11031	12378-PeCDF	57117-41-6	0.440 JB	0.0205	4.95	1
11031	23478-PeCDF	57117-31-4	0.136 JB	0.0196	4.95	1
11031	123478-HxCDF	70648-26-9	0.0685 JB	0.0197	4.95	1
11031	123678-HxCDF	57117-44-9	0.0566 JB	0.0200	4.95	1
11031	123789-HxCDF	72918-21-9	0.104 JB	0.0184	4.95	1
11031	234678-HxCDF	60851-34-5	0.0808 JBQ	0.0190	4.95	1
11031	1234678-HpCDF	67562-39-4	0.359 JB	0.0210	4.95	1
11031	1234789-HpCDF	55673-89-7	0.0776 JB	0.0280	4.95	1
11031	OCDF	39001-02-0	1.99 JB	0.0456	9.89	1

Labeled Compounds	%Rec	Windows
13C12-2378-TCDD	83	25 - 164
13C12-12378-PeCDD	71	25 - 181
13C12-123478-HxCDD	83	32 - 141
13C12-123678-HxCDD	82	28 - 130
13C12-123789-HxCDD	84	28 - 130
13C12-1234678-HpCDD	77	23 - 140
13C12-OCDD	66	17 - 157
13C12-2378-TCDF	80	24 - 169
13C12-12378-PeCDF	73	24 - 185
13C12-23478-PeCDF	70	21 - 178
13C12-123478-HxCDF	82	26 - 152
13C12-123678-HxCDF	79	26 - 123
13C12-234678-HxCDF	80	28 - 136
13C12-123789-HxCDF	87	29 - 147
13C12-1234678-HpCDF	76	28 - 143
13C12-1234789-HpCDF	65	26 - 138
13C12-OCDF	55	17 - 157

**Dioxins/Furans Data Qualifiers:**

- B Detected in Method Blank
- U Undetected
- J Estimated concentration between Estimated Detection Limit and Minimum Level
- E Exceeds calibration range
- C Confirmed quantitation on secondary GC column
- Q EMPC - Estimated Maximum Possible Concentration
- F Interference is present

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-742-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-742-SA5C-SB

LLI Sample # SW 6732520  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/01/2012 08:52

Suite 400

Fairfax VA 22030

H2506 SDG#: PH025-06\*

---

CAT No.	Analysis Name	CAS Number	Dry Result	Dry EDL*	Dry MRL	Dilution Factor
S	Saturation of detection signal					

---

**Sample Description:** SL-742-SA5C-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-742-SA5C-SB

LLI Sample # SW 6732520  
LLI Group # 1324387  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/24/2012 08:45

CDM Federal Programs Corp.

Submitted: 07/25/2012 09:20

3201 Jermantown Road

Reported: 08/01/2012 08:52

Suite 400

Fairfax VA 22030

H2506 SDG#: PH025-06\*

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
11031	10a. Dioxins/Furans 10-15 day	EPA 1613B	1	12209002	07/30/2012 21:33	Joseph D Anderson	1
11030	Dioxins/Furans in Solids - Sox	EPA 1613B	1	12209002	07/27/2012 13:00	Deborah M Zimmerman	1
11625	Moisture CDM	EPA 160.3 modified	1	12213162401A	07/31/2012 19:59	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 08/01/12 at 08:52 AM

Group Number: 1324387

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12209162401B Moisture CDM	Sample number(s): 6732515-6732516				100		80-120		
Batch number: 12213162401A Moisture CDM	Sample number(s): 6732517-6732520				100		80-120		

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank EDL**</u>	<u>Blank MRL</u>	<u>Report Units</u>	<u>OPR %REC</u>	<u>OPRD %REC</u>	<u>OPR/OPRD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 12209002	Sample number(s): 6732515-6732520								
2378-TCDD	0.0770 J	0.0366	1.00	ng/kg	103		67-158		
12378-PeCDD	0.0341 J	0.0287	5.00	ng/kg	101		70-142		
123478-HxCDD	0.0250 U	0.0250	5.00	ng/kg	94		70-164		
123678-HxCDD	0.0487 J	0.0264	5.00	ng/kg	94		76-134		
123789-HxCDD	0.0469 J	0.0247	5.00	ng/kg	101		64-162		
1234678-HpCDD	0.285 J	0.0289	5.00	ng/kg	99		70-140		
OCDD	0.600 J	0.0401	10.0	ng/kg	96		78-144		
2378-TCDF	0.0285 J	0.0256	1.00	ng/kg	97		75-158		
12378-PeCDF	0.0682 J	0.0219	5.00	ng/kg	102		80-134		
23478-PeCDF	0.0958 J	0.0206	5.00	ng/kg	100		68-160		
123478-HxCDF	0.0289 J	0.0196	5.00	ng/kg	103		72-134		
123678-HxCDF	0.0406 J	0.0173	5.00	ng/kg	106		84-130		
123789-HxCDF	0.0500 J	0.0212	5.00	ng/kg	103		78-130		
234678-HxCDF	0.0404 J	0.0181	5.00	ng/kg	100		70-156		
1234678-HpCDF	0.0933 J	0.0144	5.00	ng/kg	93		82-122		
1234789-HpCDF	0.0528 J	0.0220	5.00	ng/kg	96		78-138		
OCDF	0.156 J	0.0505	10.0	ng/kg	99		63-170		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 12209162401B Moisture CDM	Sample number(s): 6732515-6732516					BKG: P732502 62.8	62.4	1	20
Batch number: 12213162401A Moisture CDM	Sample number(s): 6732517-6732520					BKG: P732511 8.3	8.7	4	20

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 08/01/12 at 08:52 AM

Group Number: 1324387

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 10a. Dioxins/Furans 10-15 day

Batch number: 12209002

	13C12-2378-TCDD	13C12-23478-PeCDF	13C12-123478-HxCDF	13C12-123678-HxCDF	13C12-234678-HxCDF	13C12-123789-HxCDF
6732515	79	70	77	78	78	74
6732516	82	81	81	82	84	79
6732517	78	75	77	78	78	71
6732518	76	70	72	74	74	73
6732519	75	66	75	82	76	75
6732520	83	70	82	79	80	87
Blank	70	65	71	76	72	65
OPR	84	76	78	84	87	82
Limits:	25-164	21-178	26-152	26-123	28-136	29-147
	13C12-1234678-HpCDF	13C12-1234789-HpCDF	13C12-OCDF	13C12-12378-PeCDD	13C12-123478-HxCDD	13C12-123678-HxCDD
6732515	68	44	34	68	76	76
6732516	88	63	57	78	83	83
6732517	69	60	44	74	74	74
6732518	71	55	45	68	75	72
6732519	81	55	38	68	78	79
6732520	76	65	55	71	83	82
Blank	72	54	39	70	77	76
OPR	92	60	39	81	94	94
Limits:	28-143	26-138	17-157	25-181	32-141	28-130
	13C12-123789-HxCDD	13C12-1234678-HpCDD	13C12-OCDD	13C12-2378-TCDF	13C12-12378-PeCDF	
6732515	78	56	39	74	66	
6732516	79	78	64	73	85	
6732517	78	66	51	79	75	
6732518	75	65	51	73	71	
6732519	86	70	53	71	68	
6732520	84	77	66	80	73	
Blank	78	70	55	74	66	
OPR	93	81	61	81	84	
Limits:	28-130	23-140	17-157	24-169	24-185	

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ / MRL.
- (2) The unspiked result was more than four times the spike added.

50 L acct# 13013 Cap# 1324387 Sample# 6732515-20  
**SSFL Phase 3 Chain of Custody**

CDM Smith

Date Shipped: 7/24/2012

Carrier Name: FedEx

Airbill No: 193825487299

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No:

20120724-02

Cooler #:

Lab:

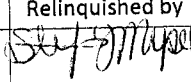
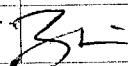
Lancaster

Lab Phone:

717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Organotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	GLYCOLS 8015	TPH-EH 8015	TPH-GRO 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex Cr 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SVOC 8270	Fluoride 300.0/9056	Mercury 7470 (Water)	Mercury 7471 (Soil)	Metals 6010 and 6020	Other Analysis/Notes			
SL-583-SA5C-SB-0.0-0.5	7/24/12 07:30	SO	None	1 - 4 oz glass	10 day																																			
SL-583-SA5C-SB-4.0-5.0	7/24/12 07:35	SO	None	1 - 4 oz glass	10 day																																			
SL-741-SA5C-SB-0.0-0.5	7/24/12 09:20	SO	None	1 - 8 oz glass	10 day				X																															
SL-741-SA5C-SB-4.0-5.0	7/24/12 09:25	SO	None	1 - 8 oz glass	10 day				X																															
SL-741-SA5C-SB-9.0-10.0	7/24/12 09:30	SO	None	1 - 8 oz glass	10 day				X																															
SL-742-SA5C-SB-0.0-0.5	7/24/12 08:45	SO	None	1 - 8 oz glass	10 day				X																															

Special Instructions: SAMPLES TRANSFERRED FROM   
 CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
		7/24/2012									
										7/25/12	920

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>$ 25%	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<$ 0.995

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

July 17, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 07/12/2012  
Group Number: 1321506  
SDG: PT018  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CAClient Sample Description

FB-071112 Water

Lancaster Labs (LLI) #

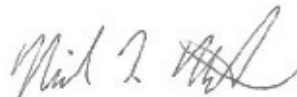
6717202

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
1 COPY TO CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,

Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259



Lancaster  
Laboratories

# ***Analysis Report***

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2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax 717-656-2681 • [www.lancasterlabs.com](http://www.lancasterlabs.com)

**Sample Description:** FB-071112 Water  
SSFL Phase 3 Soil Sampling  
FB

LLI Sample # WW 6717202  
LLI Group # 1321506  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/11/2012 14:00

CDM Federal Programs Corp.

Submitted: 07/12/2012 09:20

3201 Jermantown Road

Reported: 07/17/2012 10:24

Suite 400

Fairfax VA 22030

586FB SDG#: PT018-01\*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	ug/l	ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10 U	10	50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	20b Formaldehyde 8315A	SW-846 8315A	1	121940023A	07/13/2012 19:13	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	121940023A	07/13/2012 12:30	Olivia Arosemena	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/17/12 at 10:24 AM

Group Number: 1321506

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121940023A 20b Formaldehyde 8315A	Sample number(s): 6717202 10 U 10.	50	ug/l	92	88	69-130	4	30	

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20b Formaldehyde 8315A  
Batch number: 121940023A  
Butyraldehyde

---

6717202	89
Blank	69
LCS	92
LCSD	80

---

Limits: 45-145

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

acct# 13013

Cap# 1321506

sample# 6717202

# SSFL Phase 3 Chain of Custody

CDM Smith

Date Shipped: 7/11/2012

Carrier Name: FedEx

Airbill No: 798609438100

Contact Name: Pam Hartman

Contact Phone: (818)466-8007

No: 20120711-02

Cooler #:

Lab: Lancaster

Lab Phone: 717-556-7259

Sample	Date/Time	Matrix	Preserv.	Type/No of Containers	Turn Around Time	Methyl Mercury 1630	Oronotin	NDMA 1625	Formaldehyde 8315	Cyanide 9012	Energetics 8330	Nitrates 300.0/9056	Terphenyls 8015	Alcohols 8015	Glycols 8015	TPH-EFH 8015	TPH-G80 8015	1,4 Dioxane 8260 SIM	VOCs 8260	Pesticides 8081	Herbicides 8151	Hex C7 7196/7199	pH 9040 (Water)	pH 9045 (Soil)	Perchlorate Confirm 6850/6860	Perchlorate 314.0/331	PCBs/PCTs 8082	Dioxins 1613	1,4 Dioxane 8270 SIM	PAHs 8270 SIM	TIC 8270	SIOC 8270	Fluoride 300.0/9056	Mercury 7471 (Soil)	Mercury 7470 (Water)	Metals 6010 and 6020	Other Analysis/Notes				
FB-071112	7/11/12 14:00	WQ	None	3 - 1 L Amber	10 day																																				
SL-586-SA5C-SB-4.0-5.0	7/11/12 08:40	SO	None	1 - 4 oz glass	10 day				X																																
SL-586-SA5C-SB-9.0-10.0	7/11/12 08:45	SO	None	1 - 4 oz glass	10 day																																				
SL-588-SA5C-SB-4.0-5.0	7/11/12 08:10	SO	None	1 - 4 oz glass	10 day																																				
SL-588-SA5C-SB-9.0-10.0	7/11/12 08:15	SO	None	1 - 4 oz glass	10 day																																				
SL-589-SA5C-SB-4.0-5.0	7/11/12 10:10	SO	None	1 - 4 oz glass	10 day																																				
SL-591-SA5C-SB-4.0-5.0	7/11/12 09:50	SO	None	1 - 4 oz glass	10 day																																				
SL-592-SA5C-SB-5.0-6.0	7/11/12 07:35	SO	None	1 - 4 oz glass	10 day																																				
SL-607-SA5C-SB-0.0-0.5	7/11/12 11:00	SO	None	1 - 4 oz glass	10 day																																				
SL-607-SA5C-SB-4.0-5.0	7/11/12 11:05	SO	None	1 - 4 oz glass	10 day																																				
SL-607-SA5C-SB-9.0-10.0	7/11/12 11:10	SO	None	1 - 4 oz glass	10 day																																				

Special Instructions: SAMPLES TRANSFERRED FROM  
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished by	Date	Received by	Date	Time
	<i>[Signature]</i>	7/11/12									

*[Signature]* 7/11/12 9:20

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

## ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories  
2425 New Holland Pike  
Lancaster, PA 17605-2425

Prepared for:

CDM Federal Programs Corp.  
3201 Jermantown Road  
Suite 400  
Fairfax VA 22030

July 25, 2012

Project: SSFL Phase 3 Sampling

Submittal Date: 07/13/2012  
Group Number: 1321798  
SDG: PT019  
PO Number: 1203-004-009-AL  
Release Number: TRACKING #12571  
State of Sample Origin: CA

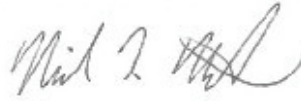
<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
EB-071212 Water	6718911
SL-502-SA5B-SB-0.0-0.5 Soil	6718912
SL-502-SA5B-SB-4.0-5.0 Soil	6718913
SL-502-SA5B-SB-9.0-10.0 Soil	6718914
SL-508-SA5B-SB-0.0-0.5 Soil	6718915
SL-508-SA5B-SB-4.0-5.0 Soil	6718916
SL-508-SA5B-SB-7.5-8.5 Soil	6718917
SL-505-SA5B-SB-0.0-0.5 Soil	6718918
SL-505-SA5B-SB-4.0-5.0 Soil	6718919
SL-505-SA5B-SB-9.0-10.0 Soil	6718920

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO  
1 COPY TO CDM Federal Services Program  
Data Package Group

Attn: Todd Burgess

Respectfully Submitted,



Nicole L. Maljovec  
Senior Specialist Group Leader

(717) 556-7259

**Sample Description:** EB-071212 Water  
SSFL Phase 3 Soil Sampling  
EB

LLI Sample # WW 6718911  
LLI Group # 1321798  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/12/2012 14:00

CDM Federal Programs Corp.

Submitted: 07/13/2012 09:30

3201 Jermantown Road

Reported: 07/25/2012 15:01

Suite 400

Fairfax VA 22030

T1901 SDG#: PT019-01EB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>							
		<b>SW-846 8315A</b>	ug/l		ug/l	ug/l	
04144	20b Formaldehyde 8315A	50-00-0	10 U		10	50	1

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04144	20b Formaldehyde 8315A	SW-846 8315A	1	121960003A	07/16/2012 16:32	James H Place	1
01013	Formaldehyde Extraction	SW-846 8315A	1	121960003A	07/15/2012 23:30	David V Hershey Jr	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-502-SA5B-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5B-SB

LLI Sample # SW 6718912  
LLI Group # 1321798  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/12/2012 09:35

CDM Federal Programs Corp.

Submitted: 07/13/2012 09:30

3201 Jermantown Road

Reported: 07/25/2012 15:01

Suite 400

Fairfax VA 22030

T1902 SDG#: PT019-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,400	U 1,400	3,500	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	15.4	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121990001A	07/18/2012 18:36	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121990001A	07/17/2012 15:30	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-502-SA5B-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5B-SB

LLI Sample # SW 6718913  
LLI Group # 1321798  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/12/2012 09:25

CDM Federal Programs Corp.

Submitted: 07/13/2012 09:30

3201 Jermantown Road

Reported: 07/25/2012 15:01

Suite 400

Fairfax VA 22030

T1903 SDG#: PT019-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	11,000	1,300	3,200	1
	The recovery for the method blank, LCS and sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	10.3	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121990001A	07/18/2012 19:04	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121990001A	07/17/2012 15:30	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

**Sample Description:** SL-502-SA5B-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-502-SA5B-SB

LLI Sample # SW 6718914  
LLI Group # 1321798  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/12/2012 09:30

CDM Federal Programs Corp.

Submitted: 07/13/2012 09:30

3201 Jermantown Road

Reported: 07/25/2012 15:01

Suite 400

Fairfax VA 22030

T1904 SDG#: PT019-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	9,500	1,400	3,500	1
	The recovery for the method blank, LCS and sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	14.9	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121990001A	07/18/2012 19:24	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121990001A	07/17/2012 15:30	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

**Sample Description:** SL-508-SA5B-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5B-SB

LLI Sample # SW 6718915  
LLI Group # 1321798  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/12/2012 07:55

CDM Federal Programs Corp.

Submitted: 07/13/2012 09:30

3201 Jermantown Road

Reported: 07/25/2012 15:01

Suite 400

Fairfax VA 22030

T1905 SDG#: PT019-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	8,300	1,300	3,300	1
	The recovery for the method blank, LCS and sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	9.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121990001A	07/18/2012 19:33	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121990001A	07/17/2012 15:30	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

**Sample Description:** SL-508-SA5B-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5B-SB

LLI Sample # SW 6718916  
LLI Group # 1321798  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/12/2012 08:05

CDM Federal Programs Corp.

Submitted: 07/13/2012 09:30

3201 Jermantown Road

Reported: 07/25/2012 15:01

Suite 400

Fairfax VA 22030

T1906 SDG#: PT019-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	7,000	1,300	3,400	1
	The recovery for the method blank, LCS and sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	11.7	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121990001A	07/18/2012 19:43	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121990001A	07/17/2012 15:30	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

**Sample Description:** SL-508-SA5B-SB-7.5-8.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-508-SA5B-SB

LLI Sample # SW 6718917  
LLI Group # 1321798  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/12/2012 08:10

CDM Federal Programs Corp.

Submitted: 07/13/2012 09:30

3201 Jermantown Road

Reported: 07/25/2012 15:01

Suite 400

Fairfax VA 22030

T1907 SDG#: PT019-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	3,600	1,200	3,100	1
	The recovery for the method blank, LCS and sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	4.8	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121990001A	07/18/2012 19:52	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121990001A	07/17/2012 15:30	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

**Sample Description:** SL-505-SA5B-SB-0.0-0.5 Soil  
SSFL Phase 3 Soil Sampling  
SL-505-SA5B-SB

LLI Sample # SW 6718918  
LLI Group # 1321798  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/12/2012 13:45

CDM Federal Programs Corp.

Submitted: 07/13/2012 09:30

3201 Jermantown Road

Reported: 07/25/2012 15:01

Suite 400

Fairfax VA 22030

T1908 SDG#: PT019-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	1,300	U 1,300	3,300	1
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	11.2	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121990001A	07/18/2012 20:02	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121990001A	07/17/2012 15:30	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

\*=This limit was used in the evaluation of the final result

**Sample Description:** SL-505-SA5B-SB-4.0-5.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-505-SA5B-SB

LLI Sample # SW 6718919  
LLI Group # 1321798  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/12/2012 13:50

CDM Federal Programs Corp.

Submitted: 07/13/2012 09:30

3201 Jermantown Road

Reported: 07/25/2012 15:01

Suite 400

Fairfax VA 22030

T1909 SDG#: PT019-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	12,000	1,300	3,300	1
	The recovery for the method blank, LCS and sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	10.1	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121990001A	07/18/2012 20:11	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121990001A	07/17/2012 15:30	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

**Sample Description:** SL-505-SA5B-SB-9.0-10.0 Soil  
SSFL Phase 3 Soil Sampling  
SL-505-SA5B-SB

LLI Sample # SW 6718920  
LLI Group # 1321798  
Account # 13013

**Project Name:** SSFL Phase 3 Sampling

Collected: 07/12/2012 13:55

CDM Federal Programs Corp.

Submitted: 07/13/2012 09:30

3201 Jermantown Road

Reported: 07/25/2012 15:01

Suite 400

Fairfax VA 22030

T1910 SDG#: PT019-10\*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit*	Dry Limit of Quantitation	Dilution Factor
<b>HPLC Organics</b>						
		<b>SW-846 8315A</b>	<b>ug/kg</b>	<b>ug/kg</b>	<b>ug/kg</b>	
04173	20a Formaldehyde 8315A	50-00-0	5,000	1,300	3,100	1
	The recovery for the method blank, LCS and sample surrogate(s) is outside the QC acceptance limits as noted on the QC Summary. The following corrective action was taken: The sample was re-extracted outside the method required holding time and the QC is compliant. All results are reported from the first trial. Similar results were obtained in both trials.					
<b>Wet Chemistry</b>						
		<b>EPA 160.3 modified</b>	<b>%</b>	<b>%</b>	<b>%</b>	
11624	Moisture Content by 160.3	n.a.	4.5	0.50	0.50	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					

### General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

### Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
04173	20a Formaldehyde 8315A	SW-846 8315A	1	121990001A	07/18/2012 20:21	James H Place	1
05876	Formaldehyde Solid Extraction	SW-846 8315A	1	121990001A	07/17/2012 15:30	Kelli M Barto	1
11624	Moisture Content by 160.3	EPA 160.3 modified	1	12201162401A	07/19/2012 20:03	Scott W Freisher	1

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/25/12 at 03:01 PM

Group Number: 1321798

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 121960003A 20b Formaldehyde 8315A	Sample number(s): 6718911 10 U	10.	50	ug/l	104	102	69-130	2	30
Batch number: 121990001A 20a Formaldehyde 8315A	Sample number(s): 6718912-6718920 1,200 U	1,200.	3,000	ug/kg	99		80-126		
Batch number: 12201162401A Moisture Content by 160.3	Sample number(s): 6718912-6718920				100		80-120		

### Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike  
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 121990001A 20a Formaldehyde 8315A	Sample number(s): 6718912-6718920	UNSPK: 6718912	104	104	80-120	0	50		
Batch number: 12201162401A Moisture Content by 160.3	Sample number(s): 6718912-6718920	BKG: 6718915				9.2	8.4	10	20

### Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: 20b Formaldehyde 8315A  
Batch number: 121960003A  
Butyraldehyde

---

6718911	95
Blank	87
LCS	91
LCSD	93

---

Limits: 45-145

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

## Quality Control Summary

Client Name: CDM Federal Programs Corp.  
Reported: 07/25/12 at 03:01 PM

Group Number: 1321798

### Surrogate Quality Control

Analysis Name: 20a Formaldehyde 8315A  
Batch number: 121990001A  
Butyraldehyde

---

6718912	134*
6718913	146*
6718914	141*
6718915	140*
6718916	143*
6718917	138*
6718918	130*
6718919	143*
6718920	147*
Blank	134*
LCS	137*
MS	142*
MSD	131*

---

Limits: 64-126

\*- Outside of specification

\*\* - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

<b>RL</b>	Reporting Limit	<b>BMQL</b>	Below Minimum Quantitation Level
<b>N.D.</b>	none detected	<b>MPN</b>	Most Probable Number
<b>TNTC</b>	Too Numerous To Count	<b>CP Units</b>	cobalt-chloroplatinate units
<b>IU</b>	International Units	<b>NTU</b>	nephelometric turbidity units
<b>umhos/cm</b>	micromhos/cm	<b>ng</b>	nanogram(s)
<b>C</b>	degrees Celsius	<b>F</b>	degrees Fahrenheit
<b>meq</b>	milliequivalents	<b>lb.</b>	pound(s)
<b>g</b>	gram(s)	<b>kg</b>	kilogram(s)
<b>µg</b>	microgram(s)	<b>mg</b>	milligram(s)
<b>mL</b>	milliliter(s)	<b>L</b>	liter(s)
<b>m<sup>3</sup></b>	cubic meter(s)	<b>µL</b>	microliter(s)
		<b>pg/L</b>	picogram/liter
<b>&lt;</b>	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
<b>&gt;</b>	greater than		
<b>ppm</b>	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
<b>ppb</b>	parts per billion		
<b>Dry weight basis</b>	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

## Data Qualifiers:

**C** – result confirmed by reanalysis.

**J** - estimated value – The result is  $\geq$  the Method Detection Limit (MDL) and  $<$  the Limit of Quantitation (LOQ).

## U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
<b>A</b>	TIC is a possible aldol-condensation product	<b>B</b>	Value is $<$ CRDL, but $\geq$ IDL
<b>B</b>	Analyte was also detected in the blank	<b>E</b>	Estimated due to interference
<b>C</b>	Pesticide result confirmed by GC/MS	<b>M</b>	Duplicate injection precision not met
<b>D</b>	Compound quantitated on a diluted sample	<b>N</b>	Spike sample not within control limits
<b>E</b>	Concentration exceeds the calibration range of the instrument	<b>S</b>	Method of standard additions (MSA) used for calculation
<b>N</b>	Presumptive evidence of a compound (TICs only)	<b>U</b>	Compound was not detected
<b>P</b>	Concentration difference between primary and confirmation columns $>25\%$	<b>W</b>	Post digestion spike out of control limits
<b>U</b>	Compound was not detected	<b>*</b>	Duplicate analysis not within control limits
<b>X,Y,Z</b>	Defined in case narrative	<b>+</b>	Correlation coefficient for MSA $<0.995$

**Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 11:41
Sample ID:   SL-684-SA5C-SB-0.0-0.5           Date Analyzed: 04/28/12 15:08
Lab Samp ID: D121-01                           Dilution Factor: 1
Lab File ID: RDL247                             Matrix          : SOIL
Ext Btch ID: SVD046S                            % Moisture      : 14.9
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
AZOBENZENE	ND	5.9	2.9
BENZO (E) PYRENE	ND	5.9	2.9
BIPHENYL	ND	5.9	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	140	391.7	35.8*	40-130
2-FLUOROBIPHENYL	131	391.7	33.5*	45-130
TERPHENYL-D14	401	391.7	102	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 11:41
Sample ID:   SL-685-SA5C-SB-0.0-0.5            Date Analyzed: 04/28/12 15:34
Lab Samp ID: D121-02                            Dilution Factor: 1
Lab File ID: RDL248                             Matrix          : SOIL
Ext Btch ID: SVD046S                            % Moisture      : 9.6
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
AZOENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	129	368.7	34.9*	40-130
2-FLUOROBIPHENYL	125	368.7	33.9*	45-130
TERPHENYL-D14	361	368.7	98.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 11:41
Sample ID    : SL-686-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 16:00
Lab Samp ID  : D121-03                          Dilution Factor: 1
Lab File ID  : RDL249                           Matrix          : SOIL
Ext Btch ID  : SVD046S                          % Moisture     : 9.8
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	11	11	2.8
BENZO (A) PYRENE	11J	11	2.8
BENZO (B) FLUORANTHENE	14	11	2.8
BENZO (K) FLUORANTHENE	4.6J	11	2.8
BENZO (G, H, I) PERYLENE	4.8J	11	2.8
CHRYSENE	12	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	23	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	5.0J	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	10J	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	7.2	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	144	369.5	39.1*	40-130
2-FLUOROBIPHENYL	148	369.5	40.1*	45-130
TERPHENYL-D14	347	369.5	94.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 11:41
Sample ID:   SL-683-SA5C-SB-0.0-0.5            Date Analyzed: 04/28/12 16:25
Lab Samp ID: D121-06                           Dilution Factor: 1
Lab File ID: RDL250                             Matrix          : SOIL
Ext Btch ID: SVD046S                            % Moisture     : 10.7
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	3.2J	11	2.8
BENZO (A) PYRENE	3.1J	11	2.8
BENZO (B) FLUORANTHENE	5.2J	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	3.2J	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	4.1J	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	3.9J	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	154	373.2	41.1	40-130
2-FLUOROBIPHENYL	165	373.2	44.3*	45-130
TERPHENYL-D14	300	373.2	80.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 11:41
Sample ID    : SL-679-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 16:51
Lab Samp ID  : D121-07                          Dilution Factor: 1
Lab File ID  : RDL251                            Matrix          : SOIL
Ext Btch ID  : SVD046S                           % Moisture     : 9.8
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	124	369.5	33.5*	40-130
2-FLUOROBIPHENYL	127	369.5	34.3*	45-130
TERPHENYL-D14	394	369.5	107	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 11:41
Sample ID:   SL-681-SA5C-SB-0.0-0.5            Date Analyzed: 04/28/12 17:17
Lab Samp ID: D121-08                            Dilution Factor: 2
Lab File ID: RDL252                             Matrix          : SOIL
Ext Btch ID: SVD046S                            % Moisture      : 8.0
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.4
ACENAPHTHYLENE	ND	22	5.4
ANTHRACENE	ND	22	5.4
BENZO (A) ANTHRACENE	8.2J	22	5.4
BENZO (A) PYRENE	ND	22	5.4
BENZO (B) FLUORANTHENE	ND	22	5.4
BENZO (K) FLUORANTHENE	ND	22	5.4
BENZO (G, H, I) PERYLENE	7.2J	22	5.4
CHRYSENE	ND	22	5.4
DIBENZO (A, H) ANTHRACENE	ND	22	5.4
FLUORANTHENE	ND	22	5.4
FLUORENE	ND	22	5.4
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.4
NAPHTHALENE	ND	22	5.4
PHENANTHRENE	ND	22	5.4
2-METHYLNAPHTHALENE	ND	22	5.4
1-METHYLNAPHTHALENE	ND	22	5.4
N-NITROSODIMETHYLAMINE	ND	22	5.4
AZOBENZENE	ND	11	5.4
BENZO (E) PYRENE	13	11	5.4
BIPHENYL	ND	11	5.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	217	362.3	59.9	40-130
2-FLUOROBIPHENYL	251	362.3	69.3	45-130
TERPHENYL-D14	440	362.3	122	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 04/24/12
Batch No.  : 12D121                             Date Extracted: 04/24/12 11:41
Sample ID  : MBLK1S                             Date Analyzed: 04/28/12 13:51
Lab Samp ID: SVD046SB                          Dilution Factor: 1
Lab File ID: RDL244                             Matrix          : SOIL
Ext Btch ID: SVD046S                           % Moisture     : NA
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	253	333.3	75.9	40-130
2-FLUOROBIPHENYL	267	333.3	80.2	45-130
TERPHENYL-D14	331	333.3	99.3	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D121  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVD046SB SVD046SX SVD046SY  
LAB FILE ID: RDL244 RDL276 RDL277  
DATE EXTRACTED: 04/24/1211:41 04/24/1211:41 04/24/1211:41 DATE COLLECTED: NA  
DATE ANALYZED: 04/28/1213:51 04/30/1212:13 04/30/1212:32 DATE RECEIVED: 04/24/12  
PREP. BATCH: SVD046S SVD046S SVD046S  
CALIB. REF: RDL204 RDL204 RDL204

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	335	101	333	305	92	9	10-130	50
Acenaphthylene	ND	333	345	103	333	313	94	10	20-130	50
Anthracene	ND	333	329	99	333	307	92	7	20-130	50
Benzo (a) anthracene	ND	333	383	115	333	354	106	8	30-130	50
Benzo (a) pyrene	ND	333	403	121	333	381	114	6	30-130	50
Benzo (b) fluoranthene	ND	333	425	127	333	429	129	1	40-130	50
Benzo (k) fluoranthene	ND	333	406	122	333	372	112	9	30-140	50
Benzo (g, h, i) perylene	ND	333	289	87	333	267	80	8	30-140	50
Chrysene	ND	333	386	116	333	356	107	8	30-140	50
Dibenzo (a, h) anthracene	ND	333	357	107	333	341	102	5	40-140	50
Fluoranthene	ND	333	400	120	333	376	113	6	30-130	50
Fluorene	ND	333	345	104	333	326	98	6	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	342	103	333	321	96	6	20-160	50
Naphthalene	ND	333	321	96	333	283	85	12	10-130	50
Phenanthrene	ND	333	323	97	333	303	91	6	20-130	50
2-Methylnaphthalene	ND	333	336	101	333	315	95	6	30-150	50
1-Methylnaphthalene	ND	333	345	104	333	309	93	11	30-150	50
N-Nitrosodimethylamine	ND	333	359	108	333	292	88	21	30-150	50
Azobenzene	ND	333	324	97	333	298	89	8	30-150	50
Benzo (e) pyrene	ND	333	354	106	333	342	102	4	30-150	50
Biphenyl	ND	333	270	81	333	246	74	9	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	253	76	333	253	76	40-130
2-Fluorobiphenyl	333	264	79	333	245	74	45-130
Terphenyl-d14	333	337	101	333	328	98	45-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                       Date Received: 04/12/12
Batch No.    : 12D121                             Date Extracted: 04/20/12 11:45
Sample ID    : SL-684-SA5C-SB-0.0-0.5           Date Analyzed: 04/21/12 02:10
Lab Samp ID  : D121-01                           Dilution Factor: 1
Lab File ID  : LD20036A                          Matrix          : SOIL
Ext Btch ID  : DSD036S                           % Moisture     : 14.9
Calib. Ref.  : LD20026A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.9	2.9
EFH(C12-C14)	ND	5.9	2.9
EFH(C15-C20)	ND	5.9	2.9
EFH(C21-C30)	ND	5.9	2.9
EFH(C30-C40)	ND	12	5.9
TOTAL EFH(C8-C40)	ND	5.9	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.2	117.5	60.6	50-150
HEXACOSANE	21.4	29.38	72.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/20/12 11:45
Sample ID:   SL-685-SA5C-SB-0.0-0.5           Date Analyzed: 04/21/12 02:27
Lab Samp ID: D121-02                           Dilution Factor: 1
Lab File ID: LD20037A                          Matrix          : SOIL
Ext Btch ID: DSD036S                           % Moisture     : 9.6
Calib. Ref.: LD20026A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.5	110.6	66.4	50-150
HEXACOSANE	21.2	27.65	76.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/20/12 11:45
Sample ID    : SL-686-SA5C-SB-0.0-0.5          Date Analyzed: 04/21/12 03:18
Lab Samp ID  : D121-03                           Dilution Factor: 1
Lab File ID  : LD20040A                          Matrix          : SOIL
Ext Btch ID  : DSD036S                           % Moisture     : 9.8
Calib. Ref.  : LD20038A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	2.9J	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	2.9J	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.8	110.9	65.7	50-150
HEXACOSANE	21.0	27.72	75.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/20/12 11:45
Sample ID:   SL-735-SA5C-SB-0.0-0.5           Date Analyzed: 04/21/12 08:07
Lab Samp ID: D121-04                           Dilution Factor: 1
Lab File ID: LD20057A                          Matrix          : SOIL
Ext Btch ID: DSD036S                           % Moisture     : 8.3
Calib. Ref.: LD20050A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	26	5.5	2.7
EFH(C30-C40)	22	11	5.5
TOTAL EFH(C8-C40)	48	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.6	109.1	63.8	50-150
HEXACOSANE	22.8	27.26	83.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/20/12 11:45
Sample ID:   SL-737-SA5C-SB-0.0-0.5           Date Analyzed: 04/21/12 04:43
Lab Samp ID: D121-05                           Dilution Factor: 1
Lab File ID: LD20045A                          Matrix          : SOIL
Ext Btch ID: DSD036S                           % Moisture     : 7.1
Calib. Ref.: LD20038A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	6.9	5.4	2.7
EFH(C30-C40)	13	11	5.4
TOTAL EFH(C8-C40)	20	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.4	107.6	64.5	50-150
HEXACOSANE	20.7	26.91	76.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                       Date Received: 04/12/12
Batch No.    : 12D121                             Date Extracted: 04/20/12 11:45
Sample ID:   SL-683-SA5C-SB-0.0-0.5              Date Analyzed: 04/21/12 05:00
Lab Samp ID: D121-06                             Dilution Factor: 1
Lab File ID: LD20046A                            Matrix          : SOIL
Ext Btch ID: DSD036S                             % Moisture     : 10.7
Calib. Ref.: LD20038A                            Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	4.4J	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	4.4J	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.4	112.0	65.6	50-150
HEXACOSANE	21.1	28.00	75.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/20/12 11:45
Sample ID:   SL-679-SA5C-SB-0.0-0.5           Date Analyzed: 04/21/12 03:35
Lab Samp ID: D121-07                           Dilution Factor: 1
Lab File ID: LD20041A                          Matrix          : SOIL
Ext Btch ID: DSD036S                           % Moisture     : 9.8
Calib. Ref.: LD20038A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.3	110.9	65.2	50-150
HEXACOSANE	20.5	27.72	74.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/20/12 11:45
Sample ID:   SL-681-SA5C-SB-0.0-0.5           Date Analyzed: 04/21/12 08:24
Lab Samp ID: D121-08                           Dilution Factor: 1
Lab File ID: LD20058A                          Matrix          : SOIL
Ext Btch ID: DSD036S                           % Moisture     : 8.0
Calib. Ref.: LD20050A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	15	5.4	2.7
EFH(C30-C40)	26	11	5.4
TOTAL EFH(C8-C40)	41	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	70.8	108.7	65.2	50-150
HEXACOSANE	21.6	27.17	79.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D121                           Date Extracted: 04/20/12 11:45
Sample ID    : MBLK1S                           Date Analyzed: 04/21/12 01:53
Lab Samp ID  : DSD036SB                         Dilution Factor: 1
Lab File ID  : LD20035A                         Matrix          : SOIL
Ext Btch ID  : DSD036S                          % Moisture     : NA
Calib. Ref.  : LD20026A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	65.7	100.0	65.7	50-150
HEXACOSANE	18.4	25.00	73.7	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D121  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSD036SB DSD036SL DSD036SC  
LAB FILE ID: LD20035A LD20033A LD20034A  
DATE EXTRACTED: 04/20/1211:45 04/20/1211:45 04/20/1211:45 DATE COLLECTED: NA  
DATE ANALYZED: 04/21/1201:53 04/21/1201:19 04/21/1201:36 DATE RECEIVED: 04/20/12  
PREP. BATCH: DSD036S DSD036S DSD036S  
CALIB. REF: LD20026A LD20026A LD20026A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	449	90	500	451	90	0	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	75.6	76	100	76.9	77	50-150
Hexacosane	25.0	19.4	78	25.0	19.6	78	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-684-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 02:52
Lab Samp ID  : D121-01                           Dilution Factor: 1
Lab File ID  : KD27021A                          Matrix          : SOIL
Ext Btch ID  : CPD057S                            % Moisture     : 14.9
Calib. Ref.  : KD27017A                          Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	47	24   24	
AROCLOR 5442	(ND)   ND	47	24   24	
AROCLOR 5460	(ND)   ND	47	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.95)   11.46	15.66	(89.1)   73.1	45-120
TETRACHLORO-M-XYLENE	(15.58)   13.58	15.66	(99.4)   86.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-685-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 03:45
Lab Samp ID  : D121-02                           Dilution Factor: 1
Lab File ID  : KD27022A                          Matrix          : SOIL
Ext Btch ID  : CPD057S                            % Moisture     : 9.6
Calib. Ref.  : KD27017A                          Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	19.74   (14.80)	14.75	134*   (100)	45-120
TETRACHLORO-M-XYLENE	(22.17)   17.21	14.75	(150)   117	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-686-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 04:38
Lab Samp ID  : D121-03                          Dilution Factor: 1
Lab File ID  : KD27023A                         Matrix          : SOIL
Ext Btch ID  : CPD057S                          % Moisture     : 9.8
Calib. Ref.  : KD27017A                         Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.49)   10.81	14.78	(91.3)   73.1	45-120
TETRACHLORO-M-XYLENE	(15.83)   13.16	14.78	(107)   89.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-735-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 05:31
Lab Samp ID  : D121-04                          Dilution Factor: 1
Lab File ID  : KD27024A                         Matrix          : SOIL
Ext Btch ID  : CPD057S                          % Moisture     : 8.3
Calib. Ref.  : KD27017A                         Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.07)   9.398	14.54	(89.9)   64.6	45-120
TETRACHLORO-M-XYLENE	(17.31)   14.07	14.54	(119)   96.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-737-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 06:24
Lab Samp ID  : D121-05                          Dilution Factor: 1
Lab File ID  : KD27025A                         Matrix          : SOIL
Ext Btch ID  : CPD057S                          % Moisture     : 7.1
Calib. Ref.  : KD27017A                         Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.74)   10.32	14.35	(95.8)   71.9	45-120
TETRACHLORO-M-XYLENE	(17.39)   13.26	14.35	(121)   92.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-683-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 07:17
Lab Samp ID  : D121-06                          Dilution Factor: 1
Lab File ID  : KD27026A                        Matrix          : SOIL
Ext Btch ID  : CPD057S                         % Moisture     : 10.7
Calib. Ref.  : KD27017A                       Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(20J)   20J	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(31J)   43J	45	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.87)   10.70	14.93	(92.9)   71.7	45-120
TETRACHLORO-M-XYLENE	(16.62)   13.96	14.93	(111)   93.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-679-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 08:10
Lab Samp ID  : D121-07                           Dilution Factor: 1
Lab File ID  : KD27027A                          Matrix          : SOIL
Ext Btch ID  : CPD057S                            % Moisture     : 9.8
Calib. Ref.  : KD27017A                          Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.22)   11.47	14.78	(96.2)   77.6	45-120
TETRACHLORO-M-XYLENE	(15.72)   13.68	14.78	(106)   92.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
Batch No.    : 12D121                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-681-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 09:03
Lab Samp ID  : D121-08                          Dilution Factor: 1
Lab File ID  : KD27028A                         Matrix          : SOIL
Ext Btch ID  : CPD057S                          % Moisture     : 8.0
Calib. Ref.  : KD27017A                         Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.40)   9.743	14.49	(92.5)   67.2	45-120
TETRACHLORO-M-XYLENE	(17.31)   13.97	14.49	(119)   96.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 04/24/12
Batch No.    : 12D121                             Date Extracted: 04/24/12 14:52
Sample ID    : MBLK1S                             Date Analyzed: 04/27/12 15:00
Lab Samp ID  : 60D057SB                           Dilution Factor: 1
Lab File ID  : KD27007A                           Matrix          : SOIL
Ext Btch ID  : CPD057S                            % Moisture      : NA
Calib. Ref.  : KD27002A                           Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.60)   11.37	13.33	(102)   85.3	45-120
TETRACHLORO-M-XYLENE	(14.54)   14.14	13.33	(109)   106	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D121  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60D057SB 60D057SL 60D057SC  
LAB FILE ID: KD27007A KD27008A KD27009A  
DATE EXTRACTED: 04/24/1214:52 04/24/1214:52 04/24/1214:52 DATE COLLECTED: NA  
DATE ANALYZED: 04/27/1215:00 04/27/1215:53 04/27/1216:46 DATE RECEIVED: 04/24/12  
PREP. BATCH: CPD057S CPD057S CPD057S  
CALIB. REF: KD27002A KD27002A KD27002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(153)   131	(92)   79	167	(151)   129	(91)   77	(1)   2	50-130	50
Aroclor 1260	(ND)   ND	167	156   (162)	94   (97)	167	158   (162)	95   (97)	1   (0)	60-150	50
Aroclor 5460	(ND)   ND	83.3	69.6   (76.5)	83.6   (91.8)	83.3	72.5   (79.7)	87.0   (95.7)	4   (4)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(13.63)   11.33	(102)   85.0	13.33	(13.38)   11.19	(100)   84.0	45-120
Tetrachloro-m-xylene	13.33	(14.86)   13.59	(111)   102	13.33	(14.32)   13.04	(107)   97.8	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/12/12
Project    : SSFL PHASE 3                     Date Received: 04/12/12
SDG NO.    : 12D121                           Date Extracted: 04/23/12 10:25
Sample ID: SL-684-SA5C-SB-0.0-0.5           Date Analyzed: 04/27/12 15:56
Lab Samp ID: D121-01                         Dilution Factor: 0.980
Lab File ID: 98D19037                       Matrix          : SOIL
Ext Btch ID: IMD032S                        % Moisture     : 14.9
Calib. Ref.: 98D19029                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18200	115	13.8
Antimony	0.224J	0.576	0.115
Arsenic	5.63	0.576	0.230
Barium	119	0.576	0.230
Beryllium	0.721	0.576	0.0576
Boron	5.98	5.76	2.88
Cadmium	0.295J	0.576	0.0576
Calcium	18600	23.0	11.5
Chromium	37.5	0.576	0.230
Cobalt	8.96	0.576	0.0576
Copper	12.9	0.576	0.230
Iron	27600	115	11.5
Lead	8.61	0.576	0.115
Magnesium	6850	11.5	5.76
Manganese	308	0.576	0.288
Molybdenum	0.496J	0.576	0.0576
Nickel	16.2	0.576	0.230
Potassium	4160	115	34.5
Selenium	ND	0.576	0.230
Silver	ND	0.576	0.0576
Sodium	148	115	57.6
Strontium	51.8	0.576	0.288
Thallium	0.316J	0.461	0.0576
Tin	ND	11.5	5.76
Titanium	739	1.15	0.576
Vanadium	52.9	0.576	0.0576
Zinc	72.1	5.76	1.73
Lithium	23.6	2.30	1.15
Phosphorus	454	13.8	6.91
Zirconium	ND	5.76	2.88

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/12/12
Project     : SSFL PHASE 3                     Date Received: 04/12/12
SDG NO.    : 12D121                           Date Extracted: 04/23/12 10:25
Sample ID:  SL-685-SA5C-SB-0.0-0.5           Date Analyzed: 04/27/12 16:05
Lab Samp ID: D121-02                          Dilution Factor: 0.962
Lab File ID: 98D19039                        Matrix          : SOIL
Ext Btch ID: IMD032S                         % Moisture     : 9.6
Calib. Ref.: 98D19029                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10300	106	12.8
Antimony	0.211J	0.532	0.106
Arsenic	3.48	0.532	0.213
Barium	84.2	0.532	0.213
Beryllium	0.429J	0.532	0.0532
Boron	5.02J	5.32	2.66
Cadmium	0.169J	0.532	0.0532
Calcium	2230	21.3	10.6
Chromium	12.1	0.532	0.213
Cobalt	4.41	0.532	0.0532
Copper	6.45	0.532	0.213
Iron	16800	106	10.6
Lead	5.77	0.532	0.106
Magnesium	3630	10.6	5.32
Manganese	243	0.532	0.266
Molybdenum	0.405J	0.532	0.0532
Nickel	7.29	0.532	0.213
Potassium	2810	106	31.9
Selenium	ND	0.532	0.213
Silver	ND	0.532	0.0532
Sodium	93.2J	106	53.2
Strontium	15.7	0.532	0.266
Thallium	0.240J	0.426	0.0532
Tin	ND	10.6	5.32
Titanium	916	1.06	0.532
Vanadium	27.4	0.532	0.0532
Zinc	50.9	5.32	1.60
Lithium	18.8	2.13	1.06
Phosphorus	296	12.8	6.38
Zirconium	ND	5.32	2.66

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/12/12
Project     : SSFL PHASE 3                     Date Received: 04/12/12
SDG NO.    : 12D121                           Date Extracted: 04/23/12 10:25
Sample ID:  SL-686-SA5C-SB-0.0-0.5           Date Analyzed: 04/27/12 16:23
Lab Samp ID: D121-03                          Dilution Factor: 1.00
Lab File ID: 98D19043                         Matrix          : SOIL
Ext Btch ID: IMD032S                          % Moisture     : 9.8
Calib. Ref.: 98D19041                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10300	111	13.3
Antimony	0.444J	0.554	0.111
Arsenic	3.34	0.554	0.222
Barium	98.2	0.554	0.222
Beryllium	0.394J	0.554	0.0554
Boron	ND	5.54	2.77
Cadmium	0.237J	0.554	0.0554
Calcium	3610	22.2	11.1
Chromium	12.6	0.554	0.222
Cobalt	5.16	0.554	0.0554
Copper	7.41	0.554	0.222
Iron	17400	111	11.1
Lead	9.45	0.554	0.111
Magnesium	3950	11.1	5.54
Manganese	245	0.554	0.277
Molybdenum	0.421J	0.554	0.0554
Nickel	8.60	0.554	0.222
Potassium	2930	111	33.3
Selenium	ND	0.554	0.222
Silver	ND	0.554	0.0554
Sodium	279	111	55.4
Strontium	26.4	0.554	0.277
Thallium	0.219J	0.443	0.0554
Tin	ND	11.1	5.54
Titanium	866	1.11	0.554
Vanadium	26.5	0.554	0.0554
Zinc	59.3	5.54	1.66
Lithium	18.7	2.22	1.11
Phosphorus	407	13.3	6.65
Zirconium	ND	5.54	2.77

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/12/12
Project    : SSFL PHASE 3                     Date Received: 04/12/12
SDG NO.    : 12D121                           Date Extracted: 04/23/12 10:25
Sample ID: SL-735-SA5C-SB-0.0-0.5           Date Analyzed: 04/27/12 16:28
Lab Samp ID: D121-04                         Dilution Factor: 0.976
Lab File ID: 98D19044                       Matrix          : SOIL
Ext Btch ID: IMD032S                        % Moisture     : 8.3
Calib. Ref.: 98D19041                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11400	106	12.8
Antimony	0.292J	0.532	0.106
Arsenic	4.74	0.532	0.213
Barium	125	0.532	0.213
Beryllium	0.354J	0.532	0.0532
Boron	ND	5.32	2.66
Cadmium	0.177J	0.532	0.0532
Calcium	3160	21.3	10.6
Chromium	12.7	0.532	0.213
Cobalt	5.61	0.532	0.0532
Copper	8.62	0.532	0.213
Iron	18600	106	10.6
Lead	5.16	0.532	0.106
Magnesium	5080	10.6	5.32
Manganese	246	0.532	0.266
Molybdenum	0.461J	0.532	0.0532
Nickel	7.78	0.532	0.213
Potassium	3680	106	31.9
Selenium	ND	0.532	0.213
Silver	ND	0.532	0.0532
Sodium	142	106	53.2
Strontium	19.0	0.532	0.266
Thallium	0.229J	0.426	0.0532
Tin	ND	10.6	5.32
Titanium	1230	1.06	0.532
Vanadium	33.6	0.532	0.0532
Zinc	56.1	5.32	1.60
Lithium	17.9	2.13	1.06
Phosphorus	546	12.8	6.39
Zirconium	ND	5.32	2.66

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/12/12
Project     : SSFL PHASE 3                     Date Received: 04/12/12
SDG NO.    : 12D121                           Date Extracted: 04/23/12 10:25
Sample ID:  SL-737-SA5C-SB-0.0-0.5           Date Analyzed: 04/27/12 16:32
Lab Samp ID: D121-05                          Dilution Factor: 0.976
Lab File ID: 98D19045                         Matrix          : SOIL
Ext Btch ID: IMD032S                          % Moisture     : 7.1
Calib. Ref.: 98D19041                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9770	105	12.6
Antimony	0.434J	0.525	0.105
Arsenic	1.92	0.525	0.210
Barium	144	0.525	0.210
Beryllium	0.206J	0.525	0.0525
Boron	ND	5.25	2.63
Cadmium	0.146J	0.525	0.0525
Calcium	4290	21.0	10.5
Chromium	9.90	0.525	0.210
Cobalt	5.55	0.525	0.0525
Copper	11.1	0.525	0.210
Iron	17200	105	10.5
Lead	3.80	0.525	0.105
Magnesium	5510	10.5	5.25
Manganese	245	0.525	0.263
Molybdenum	0.307J	0.525	0.0525
Nickel	6.53	0.525	0.210
Potassium	4490	105	31.5
Selenium	ND	0.525	0.210
Silver	ND	0.525	0.0525
Sodium	145	105	52.5
Strontium	19.3	0.525	0.263
Thallium	0.223J	0.420	0.0525
Tin	ND	10.5	5.25
Titanium	1310	1.05	0.525
Vanadium	32.9	0.525	0.0525
Zinc	58.0	5.25	1.58
Lithium	14.6	2.10	1.05
Phosphorus	651	12.6	6.30
Zirconium	ND	5.25	2.63

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
SDG NO.     : 12D121                           Date Extracted: 04/23/12 10:25
Sample ID   : SL-683-SA5C-SB-0.0-0.5          Date Analyzed: 04/27/12 16:37
Lab Samp ID : D121-06                           Dilution Factor: 0.985
Lab File ID : 98D19046                          Matrix          : SOIL
Ext Btch ID : IMD032S                           % Moisture     : 10.7
Calib. Ref. : 98D19041                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12300	110	13.2
Antimony	0.429J	0.552	0.110
Arsenic	4.16	0.552	0.221
Barium	99.4	0.552	0.221
Beryllium	0.482J	0.552	0.0552
Boron	2.80J	5.52	2.76
Cadmium	0.269J	0.552	0.0552
Calcium	2830	22.1	11.0
Chromium	15.4	0.552	0.221
Cobalt	4.73	0.552	0.0552
Copper	8.36	0.552	0.221
Iron	18200	110	11.0
Lead	11.6	0.552	0.110
Magnesium	4310	11.0	5.52
Manganese	192	0.552	0.276
Molybdenum	0.462J	0.552	0.0552
Nickel	8.33	0.552	0.221
Potassium	2460	110	33.1
Selenium	ND	0.552	0.221
Silver	ND	0.552	0.0552
Sodium	158	110	55.2
Strontium	23.7	0.552	0.276
Thallium	0.248J	0.441	0.0552
Tin	ND	11.0	5.52
Titanium	955	1.10	0.552
Vanadium	32.6	0.552	0.0552
Zinc	76.8	5.52	1.65
Lithium	16.4	2.21	1.10
Phosphorus	244	13.2	6.62
Zirconium	ND	5.52	2.76

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
SDG NO.     : 12D121                            Date Extracted: 04/23/12 10:25
Sample ID   : SL-679-SA5C-SB-0.0-0.5          Date Analyzed: 04/27/12 16:41
Lab Samp ID : D121-07                           Dilution Factor: 1.00
Lab File ID : 98D19047                          Matrix          : SOIL
Ext Btch ID : IMD032S                            % Moisture     : 9.8
Calib. Ref. : 98D19041                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15200	111	13.3
Antimony	0.281J	0.554	0.111
Arsenic	3.99	0.554	0.222
Barium	89.9	0.554	0.222
Beryllium	0.517J	0.554	0.0554
Boron	ND	5.54	2.77
Cadmium	0.148J	0.554	0.0554
Calcium	2870	22.2	11.1
Chromium	16.4	0.554	0.222
Cobalt	5.49	0.554	0.0554
Copper	6.70	0.554	0.222
Iron	20100	111	11.1
Lead	6.39	0.554	0.111
Magnesium	5300	11.1	5.54
Manganese	208	0.554	0.277
Molybdenum	0.343J	0.554	0.0554
Nickel	7.55	0.554	0.222
Potassium	2480	111	33.3
Selenium	ND	0.554	0.222
Silver	ND	0.554	0.0554
Sodium	208	111	55.4
Strontium	23.3	0.554	0.277
Thallium	0.257J	0.443	0.0554
Tin	ND	11.1	5.54
Titanium	1320	1.11	0.554
Vanadium	34.7	0.554	0.0554
Zinc	54.1	5.54	1.66
Lithium	17.9	2.22	1.11
Phosphorus	283	13.3	6.65
Zirconium	ND	5.54	2.77

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 04/12/12
Project      : SSFL PHASE 3                     Date Received: 04/12/12
SDG NO.     : 12D121                           Date Extracted: 04/23/12 10:25
Sample ID   : SL-681-SA5C-SB-0.0-0.5          Date Analyzed: 04/27/12 16:46
Lab Samp ID : D121-08                           Dilution Factor: 0.952
Lab File ID : 98D19048                          Matrix          : SOIL
Ext Btch ID : IMD032S                           % Moisture     : 8.0
Calib. Ref. : 98D19041                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11000	103	12.4
Antimony	0.251J	0.517	0.103
Arsenic	3.15	0.517	0.207
Barium	113	0.517	0.207
Beryllium	0.359J	0.517	0.0517
Boron	4.34J	5.17	2.59
Cadmium	0.222J	0.517	0.0517
Calcium	2670	20.7	10.3
Chromium	11.8	0.517	0.207
Cobalt	4.81	0.517	0.0517
Copper	7.65	0.517	0.207
Iron	17400	103	10.3
Lead	7.90	0.517	0.103
Magnesium	4570	10.3	5.17
Manganese	237	0.517	0.259
Molybdenum	0.348J	0.517	0.0517
Nickel	7.28	0.517	0.207
Potassium	3160	103	31.0
Selenium	ND	0.517	0.207
Silver	ND	0.517	0.0517
Sodium	203	103	51.7
Strontium	26.9	0.517	0.259
Thallium	0.227J	0.414	0.0517
Tin	ND	10.3	5.17
Titanium	1080	1.03	0.517
Vanadium	29.3	0.517	0.0517
Zinc	85.5	5.17	1.55
Lithium	17.9	2.07	1.03
Phosphorus	418	12.4	6.21
Zirconium	ND	5.17	2.59

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/23/12
SDG NO.     : 12D121                           Date Extracted: 04/23/12 10:25
Sample ID   : MBLK1S                           Date Analyzed: 04/27/12 15:29
Lab Samp ID : IMD032SB                         Dilution Factor: 1
Lab File ID : 98D19031                        Matrix          : SOIL
Ext Btch ID : IMD032S                          % Moisture     : NA
Calib. Ref. : 98D19029                        Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D121  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMD032SB IMD032SL IMD032SC  
LAB FILE ID: 98D19031 98D19032 98D19033  
DATIME EXTRACTD: 04/23/1210:25 04/23/1210:25 04/23/1210:25 DATE COLLECTED: NA  
DATIME ANALYZD: 04/27/1215:29 04/27/1215:33 04/27/1215:38 DATE RECEIVED: 04/23/12  
PREP. BATCH: IMD032S IMD032S IMD032S  
CALIB. REF: 98D19029 98D19029 98D19029

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2700	108	2500	2750	110	2	80-120	20
Antimony	ND	25.0	26.3	105	25.0	26.6	106	1	80-120	20
Arsenic	ND	25.0	25.5	102	25.0	26.1	104	2	80-120	20
Barium	ND	25.0	25.5	102	25.0	25.7	103	1	80-120	20
Beryllium	ND	25.0	23.6	95	25.0	24.2	97	2	80-120	20
Boron	ND	25.0	24.5	98	25.0	24.8	99	1	80-120	20
Cadmium	ND	25.0	25.0	100	25.0	25.4	102	2	80-120	20
Calcium	ND	2500	2650	106	2500	2680	107	1	80-120	20
Chromium	ND	25.0	24.6	98	25.0	24.8	99	1	80-120	20
Cobalt	ND	25.0	24.1	97	25.0	25.0	100	4	80-120	20
Copper	ND	25.0	23.9	96	25.0	24.2	97	1	80-120	20
Iron	ND	2500	2580	103	2500	2580	103	0	80-120	20
Lead	ND	25.0	25.1	100	25.0	25.4	101	1	80-120	20
Magnesium	ND	2500	2710	108	2500	2770	111	2	80-120	20
Manganese	ND	25.0	24.0	96	25.0	24.9	100	4	80-120	20
Molybdenum	ND	25.0	25.8	103	25.0	26.1	104	1	80-120	20
Nickel	ND	25.0	24.1	96	25.0	24.3	97	1	80-120	20
Potassium	ND	2500	2680	107	2500	2730	109	2	80-120	20
Selenium	ND	25.0	24.8	99	25.0	25.4	101	2	80-120	20
Silver	ND	25.0	25.2	101	25.0	25.3	101	0	80-120	20
Sodium	ND	2500	2620	105	2500	2610	104	0	80-120	20
Strontium	ND	25.0	25.4	102	25.0	26.3	105	3	80-120	20
Thallium	ND	25.0	25.8	103	25.0	26.3	105	2	80-120	20
Tin	ND	25.0	28.4	114	25.0	28.9	115	2	80-120	20
Titanium	ND	25.0	26.0	104	25.0	27.0	108	4	80-120	20
Vanadium	ND	25.0	25.3	101	25.0	25.7	103	2	80-120	20
Zinc	ND	50.0	48.9	98	50.0	50.6	101	3	80-120	20
Lithium	ND	25.0	25.3	101	25.0	25.6	103	1	80-120	20
Phosphorus	ND	250	256	102	250	269	108	5	80-120	20
Zirconium	ND	25.0	24.2	97	25.0	25.2	101	4	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D121  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 14.9  
DILT N FACTR: 0.980 0.990 0.980  
SAMPLE ID: SL-684-SA5C-SB-0.0-0.5  
CONTROL NO.: D121-01 D121-01M D121-01S  
LAB FILE ID: 98D19037 98D19034 98D19035  
DATIME EXTRACTD: 04/23/1210:25 04/23/1210:25 04/23/1210:25 DATE COLLECTED: 04/12/12  
DATIME ANALYZD: 04/27/1215:56 04/27/1215:42 04/27/1215:47 DATE RECEIVED: 04/12/12  
PREP. BATCH: IMD032S IMD032S IMD032S  
CALIB. REF: 98D19029 98D19029 98D19029

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	18200	2910	20200	67*	2880	20600	84	2	75-125	20
Antimony	0.224J	29.1	17.9	61*	28.8	13.4	46*	29*	75-125	20
Arsenic	5.63	29.1	32.5	92	28.8	32.6	94	0	75-125	20
Barium	119	29.1	146	95	28.8	149	104	2	75-125	20
Beryllium	0.721	29.1	29.0	97	28.8	29.1	99	1	75-125	20
Boron	5.98	29.1	32.1	90	28.8	32.6	92	2	75-125	20
Cadmium	0.295J	29.1	28.8	98	28.8	28.9	99	0	75-125	20
Calcium	18600	2910	23200	158*	2880	23400	165*	1	75-125	20
Chromium	37.5	29.1	49.8	42*	28.8	51.1	47*	3	75-125	20
Cobalt	8.96	29.1	33.1	83	28.8	33.6	86	2	75-125	20
Copper	12.9	29.1	36.5	81	28.8	37.9	87	4	75-125	20
Iron	27600	2910	27300	-10*	2880	28800	40*	5	75-125	20
Lead	8.61	29.1	36.5	96	28.8	36.7	98	0	75-125	20
Magnesium	6850	2910	9380	87	2880	9430	89	0	75-125	20
Manganese	308	29.1	315	24*	28.8	326	61*	3	75-125	20
Molybdenum	0.496J	29.1	28.6	97	28.8	28.0	96	2	75-125	20
Nickel	16.2	29.1	39.4	80	28.8	39.7	82	1	75-125	20
Potassium	4160	2910	6870	93	2880	7050	100	3	75-125	20
Selenium	ND	29.1	28.5	98	28.8	28.3	98	1	75-125	20
Silver	ND	29.1	28.7	99	28.8	28.5	99	1	75-125	20
Sodium	148	2910	2780	91	2880	2760	91	1	75-125	20
Strontium	51.8	29.1	82.8	107	28.8	83.4	110	1	75-125	20
Thallium	0.316J	29.1	29.6	101	28.8	29.6	102	0	75-125	20
Tin	ND	29.1	33.8	116	28.8	34.2	119	1	75-125	20
Titanium	739	29.1	800	212*	28.8	826	304*	3	75-125	20
Vanadium	52.9	29.1	75.7	78	28.8	78.5	89	4	75-125	20
Zinc	72.1	58.2	127	95	57.6	129	100	2	75-125	20
Lithium	23.6	29.1	52.1	98	28.8	53.2	103	2	75-125	20
Phosphorus	454	291	707	87	288	746	101	5	75-125	20
Zirconium	ND	29.1	11.5	40*	28.8	13.0	45*	12	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D121  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 14.9  
DILTN FACTR: 0.980 0.980  
SAMPLE ID: SL-684-SA5C-SB-0.0-0.5  
CONTROL NO.: D121-01 D121-01A  
LAB FILE ID: 98D19037 98D19036  
DATIME EXTRACTD: 04/23/1210:25 04/23/1210:25 DATE COLLECTED: 04/12/12  
DATIME ANALYZD: 04/27/1215:56 04/27/1215:51 DATE RECEIVED: 04/12/12  
PREP. BATCH: IMD032S IMD032S  
CALIB. REF: 98D19029 98D19029

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	18200	2880	21200	102	75-125
Antimony	0.224J	28.8	30.1	104	75-125
Arsenic	5.63	28.8	32.7	94	75-125
Barium	119	28.8	154	121	75-125
Beryllium	0.721	28.8	27.2	92	75-125
Boron	5.98	28.8	32.2	91	75-125
Cadmium	0.295J	28.8	28.2	97	75-125
Calcium	18600	2880	21300	92	75-125
Chromium	37.5	28.8	62.2	86	75-125
Cobalt	8.96	28.8	34.1	87	75-125
Copper	12.9	28.8	36.4	81	75-125
Iron	27600	2880	29900	79	75-125
Lead	8.61	28.8	35.8	94	75-125
Magnesium	6850	2880	9620	96	75-125
Manganese	308	28.8	330	73*	75-125
Molybdenum	0.496J	28.8	30.9	105	75-125
Nickel	16.2	28.8	39.7	82	75-125
Potassium	4160	2880	6890	95	75-125
Selenium	ND	28.8	28.1	97	75-125
Silver	ND	28.8	27.7	96	75-125
Sodium	148	2880	2730	90	75-125
Strontium	51.8	28.8	80.1	98	75-125
Thallium	0.316J	28.8	28.2	97	75-125
Tin	ND	28.8	33.1	115	75-125
Titanium	739	28.8	769	106	75-125
Vanadium	52.9	28.8	78.6	89	75-125
Zinc	72.1	57.6	141	120	75-125
Lithium	23.6	28.8	51.6	97	75-125
Phosphorus	454	288	728	95	75-125
Zirconium	ND	28.8	30.2	105	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D121  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 14.9  
DILUTION FACTOR: 0.980 4.90  
SAMPLE ID: SL-684-SA5C-SB SL-684-SA5C-SB  
EMAX SAMP ID: D121-01 D121-01J  
LAB FILE ID: 98D19037 98D19038  
DATE EXTRACTED: 04/23/1210:25 04/23/1210:25 DATE COLLECTED: 04/12/12  
DATE ANALYZED: 04/27/1215:56 04/27/1216:00 DATE RECEIVED: 04/12/12  
PREP. BATCH: IMD032S IMD032S  
CALIB. REF: 98D19029 98D19029

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	18200	19700	8	10
Antimony	0.224J	ND	NA	10
Arsenic	5.63	5.62	0	10
Barium	119	114	4	10
Beryllium	0.721	0.725J	NA	10
Boron	5.98	ND	NA	10
Cadmium	0.295J	0.321J	NA	10
Calcium	18600	20400	9	10
Chromium	37.5	40.3	7	10
Cobalt	8.96	9.76	9	10
Copper	12.9	14.8	15*	10
Iron	27600	30700	11*	10
Lead	8.61	8.74	2	10
Magnesium	6850	7490	9	10
Manganese	308	335	8	10
Molybdenum	0.496J	0.482J	NA	10
Nickel	16.2	17.8	10	10
Potassium	4160	4340	4	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	148	ND	NA	10
Strontium	51.8	50.9	2	10
Thallium	0.316J	0.321J	NA	10
Tin	ND	ND	0	10
Titanium	739	770	4	10
Vanadium	52.9	55.7	5	10
Zinc	72.1	74.2	3	10
Lithium	23.6	21.3	10	10
Phosphorus	454	467	3	10
Zirconium	ND	ND	0	10

METHOD 9045D  
PH

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D121

Matrix : SOIL  
Instrument ID : 53

SAMPLE ID	EMAX	RESULTS	RL				MDL	Analysis	Extraction	LFID	CAL REF	PREP BATCH	Collection	Received
	SAMPLE ID	(pH Unit)	DLF	MOIST	(pH Unit)	(pH Unit)	DATETIME	DATETIME	DATETIME				DATETIME	DATETIME
SL-684-SA5C-SB-0.0-0.5	D121-01	8.34	1	NA	NA	NA	04/13/1219:16	04/13/1219:16	12PHD014S01	PHD014S	PHD014S	04/12/1213:45	04/12/12	
SL-685-SA5C-SB-0.0-0.5	D121-02	8.03	1	NA	NA	NA	04/13/1219:19	04/13/1219:16	12PHD014S02	PHD014S	PHD014S	04/12/1212:10	04/12/12	
SL-685-SA5C-SB-0.0-0.5DUP	D121-02D	8.03	1	NA	NA	NA	04/13/1219:21	04/13/1219:16	12PHD014S02	PHD014S	PHD014S	04/12/1212:10	04/12/12	
SL-686-SA5C-SB-0.0-0.5	D121-03	8.20	1	NA	NA	NA	04/13/1219:22	04/13/1219:16	12PHD014S03	PHD014S	PHD014S	04/12/1211:40	04/12/12	
SL-735-SA5C-SB-0.0-0.5	D121-04	8.58	1	NA	NA	NA	04/23/1217:17	04/23/1217:17	12PHD025S01	PHD025S	PHD025S	04/12/1210:00	04/12/12	
SL-735-SA5C-SB-0.0-0.5DUP	D121-04D	8.61	1	NA	NA	NA	04/23/1217:18	04/23/1217:17	12PHD025S02	PHD025S	PHD025S	04/12/1210:00	04/12/12	
SL-737-SA5C-SB-0.0-0.5	D121-05	8.59	1	NA	NA	NA	04/23/1217:20	04/23/1217:17	12PHD025S03	PHD025S	PHD025S	04/12/1210:45	04/12/12	
SL-683-SA5C-SB-0.0-0.5	D121-06	8.42	1	NA	NA	NA	04/13/1219:25	04/13/1219:16	12PHD014S05	PHD014S	PHD014S	04/12/1214:10	04/12/12	
SL-679-SA5C-SB-0.0-0.5	D121-07	8.77	1	NA	NA	NA	04/13/1219:26	04/13/1219:16	12PHD014S06	PHD014S	PHD014S	04/12/1215:00	04/12/12	
SL-681-SA5C-SB-0.0-0.5	D121-08	8.63	1	NA	NA	NA	04/13/1219:27	04/13/1219:16	12PHD014S07	PHD014S	PHD014S	04/12/1214:35	04/12/12	

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12D121	DATE RECEIVED:	04/12/12
SAMPLE ID:	SL-685-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	04/13/12 19:16
CONTROL NO.:	D121-02D	DATE ANALYZED:	04/13/12 19:21

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	8.03	8.03	0	+/- 0.1

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12D121	DATE RECEIVED:	04/12/12
SAMPLE ID:	SL-735-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	04/23/12 17:17
CONTROL NO.:	D121-04D	DATE ANALYZED:	04/23/12 17:18

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	8.58	8.61	- 0.03	+/- 0.1

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D121

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE008SB	ND	1	NA	0.100	0.0500	05/11/1215:58	05/11/1213:00	M47E010010	M47E010008	HGE008S	NA	05/11/12
LCS1S	HGE008SL	0.887	1	NA	0.100	0.0500	05/11/1216:00	05/11/1213:00	M47E010011	M47E010008	HGE008S	NA	05/11/12
LCD1S	HGE008SC	0.875	1	NA	0.100	0.0500	05/11/1216:02	05/11/1213:00	M47E010012	M47E010008	HGE008S	NA	05/11/12
SL-684-SA5C-SB-0.0-0.5	D121-01	ND	0.993	14.9	0.117	0.0583	05/11/1216:33	05/11/1213:00	M47E010026	M47E010020	HGE008S	04/12/12	04/12/12
SL-685-SA5C-SB-0.0-0.5	D121-02	ND	0.995	9.6	0.110	0.0550	05/11/1216:36	05/11/1213:00	M47E010027	M47E010020	HGE008S	04/12/12	04/12/12
SL-686-SA5C-SB-0.0-0.5	D121-03	0.136	1.00	9.8	0.111	0.0554	05/11/1216:39	05/11/1213:00	M47E010028	M47E010020	HGE008S	04/12/12	04/12/12
SL-735-SA5C-SB-0.0-0.5	D121-04	ND	1.01	8.3	0.110	0.0551	05/11/1216:41	05/11/1213:00	M47E010029	M47E010020	HGE008S	04/12/12	04/12/12
SL-737-SA5C-SB-0.0-0.5	D121-05	ND	1.00	7.1	0.108	0.0538	05/11/1216:43	05/11/1213:00	M47E010030	M47E010020	HGE008S	04/12/12	04/12/12
SL-683-SA5C-SB-0.0-0.5	D121-06	ND	0.979	10.7	0.110	0.0548	05/11/1216:45	05/11/1213:00	M47E010031	M47E010020	HGE008S	04/12/12	04/12/12
SL-679-SA5C-SB-0.0-0.5	D121-07	ND	1.00	9.8	0.111	0.0554	05/11/1216:51	05/11/1213:00	M47E010034	M47E010032	HGE008S	04/12/12	04/12/12
SL-681-SA5C-SB-0.0-0.5	D121-08	ND	0.988	8.0	0.107	0.0537	05/11/1216:54	05/11/1213:00	M47E010035	M47E010032	HGE008S	04/12/12	04/12/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D121  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE008SB HGE008SL HGE008SC  
LAB FILE ID: M47E010010 M47E010011 M47E010012  
DATIME EXTRCTD: 05/11/1213:00 05/11/1213:00 05/11/1213:00 DATE COLLECTED: NA  
DATIME ANALYZD: 05/11/1215:58 05/11/1216:00 05/11/1216:02 DATE RECEIVED: 05/11/12  
PREP. BATCH: HGE008S HGE008S HGE008S  
CALIB. REF: M47E010008 M47E010008 M47E010008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.887	106	.833	.875	105	1	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D121  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.9  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-691-SA5C-SB-0.0-0.5  
CONTROL NO.: D147-01 D147-01A  
LAB FILE ID: M47E010014 M47E010013  
DATIME EXTRACTD: 05/11/1213:00 05/11/1213:00 DATE COLLECTED: 04/16/12  
DATIME ANALYZD: 05/11/1216:06 05/11/1216:04 DATE RECEIVED: 04/16/12  
PREP. BATCH: HGE008S HGE008S  
CALIB. REF: M47E010008 M47E010008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.93	1.02	109	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D121  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.9  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-691-SA5C-SB-0.0- D147-01J  
 EMAX SAMP ID: D147-01 D147-01J  
 LAB FILE ID: M47E010014 M47E010015  
 DATE EXTRACTED: 05/11/1213:00 05/11/1213:00 DATE COLLECTED: 04/16/12  
 DATE ANALYZED: 05/11/1216:06 05/11/1216:09 DATE RECEIVED: 04/16/12  
 PREP. BATCH: HGE008S HGE008S  
 CALIB. REF: M47E010008 M47E010008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/20/12 11:45
Sample ID:   SL-514-SA5C-SB-0.0-0.5            Date Analyzed: 04/21/12 06:42
Lab Samp ID: D155-07                            Dilution Factor: 1
Lab File ID: LD20052A                           Matrix          : SOIL
Ext Btch ID: DSD036S                             % Moisture     : 13.9
Calib. Ref.: LD20050A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	5.4J	5.8	2.9
EFH(C30-C40)	8.6J	12	5.8
TOTAL EFH(C8-C40)	14	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.4	116.1	65.7	50-150
HEXACOSANE	22.0	29.04	75.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/20/12 11:45
Sample ID    : SL-814-SA5C-SB-0.0-0.5          Date Analyzed: 04/21/12 05:51
Lab Samp ID  : D155-08                           Dilution Factor: 1
Lab File ID  : LD20049A                          Matrix          : SOIL
Ext Btch ID  : DSD036S                           % Moisture     : 13.8
Calib. Ref.  : LD20038A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	7.6	5.8	2.9
EFH(C30-C40)	7.1J	12	5.8
TOTAL EFH(C8-C40)	15	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.5	116.0	66.8	50-150
HEXACOSANE	22.6	29.00	78.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/20/12 11:45
Sample ID:   SL-680-SA5C-SB-0.0-0.5           Date Analyzed: 04/21/12 07:33
Lab Samp ID: D155-09                           Dilution Factor: 1
Lab File ID: LD20055A                          Matrix          : SOIL
Ext Btch ID: DSD036S                           % Moisture     : 13.8
Calib. Ref.: LD20050A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	7.2	5.8	2.9
EFH(C30-C40)	13	12	5.8
TOTAL EFH(C8-C40)	20	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.8	116.0	63.6	50-150
HEXACOSANE	22.2	29.00	76.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                       Date Received: 04/17/12
Batch No.    : 12D155                             Date Extracted: 04/20/12 11:45
Sample ID:   SL-581-SA5C-SB-0.0-0.5              Date Analyzed: 04/21/12 09:15
Lab Samp ID: D155-11                             Dilution Factor: 1
Lab File ID: LD20061A                           Matrix          : SOIL
Ext Btch ID: DSD036S                             % Moisture     : 11.6
Calib. Ref.: LD20050A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	250	5.7	2.8
EFH(C30-C40)	260	11	5.7
TOTAL EFH(C8-C40)	510	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.6	113.1	66.8	50-150
HEXACOSANE	22.3	28.28	78.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/20/12 11:45
Sample ID    : SL-747-SA5C-SB-0.0-0.5          Date Analyzed: 04/21/12 07:50
Lab Samp ID  : D155-12                           Dilution Factor: 1
Lab File ID  : LD20056A                         Matrix          : SOIL
Ext Btch ID  : DSD036S                          % Moisture     : 15.4
Calib. Ref.  : LD20050A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.9	3.0
EFH(C12-C14)	ND	5.9	3.0
EFH(C15-C20)	ND	5.9	3.0
EFH(C21-C30)	13	5.9	3.0
EFH(C30-C40)	41	12	5.9
TOTAL EFH(C8-C40)	54	5.9	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.5	118.2	63.0	50-150
HEXACOSANE	23.5	29.55	79.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D155                           Date Extracted: 04/20/12 11:45
Sample ID    : MBLK1S                            Date Analyzed: 04/21/12 01:53
Lab Samp ID  : DSD036SB                         Dilution Factor: 1
Lab File ID  : LD20035A                         Matrix          : SOIL
Ext Btch ID  : DSD036S                          % Moisture     : NA
Calib. Ref.  : LD20026A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	65.7	100.0	65.7	50-150
HEXACOSANE	18.4	25.00	73.7	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D155  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSD036SB DSD036SL DSD036SC  
LAB FILE ID: LD20035A LD20033A LD20034A  
DATE EXTRACTED: 04/20/1211:45 04/20/1211:45 04/20/1211:45 DATE COLLECTED: NA  
DATE ANALYZED: 04/21/1201:53 04/21/1201:19 04/21/1201:36 DATE RECEIVED: 04/20/12  
PREP. BATCH: DSD036S DSD036S DSD036S  
CALIB. REF: LD20026A LD20026A LD20026A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	449	90	500	451	90	0	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	75.6	76	100	76.9	77	50-150
Hexacosane	25.0	19.4	78	25.0	19.6	78	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D155  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 13.9  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-514-SA5C-SB-0.0-0.5  
LAB SAMP ID: D155-07 D155-07M D155-07S  
LAB FILE ID: LD20052A LD20053A LD20054A  
DATE EXTRACTED: 04/20/1211:45 04/20/1211:45 04/20/1211:45 DATE COLLECTED: 04/17/12  
DATE ANALYZED: 04/21/1206:42 04/21/1206:59 04/21/1207:16 DATE RECEIVED: 04/17/12  
PREP. BATCH: DSD036S DSD036S DSD036S  
CALIB. REF: LD20050A LD20050A LD20050A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	14.0	581	458	76	581	480	80	5	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	116	82.1	71	116	81.1	70	50-150
Hexacosane	29.0	22.8	78	29.0	22.5	77	50-150

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 11:41
Sample ID    : SL-578-SA5C-SB-0.0-0.5          Date Analyzed: 04/30/12 13:48
Lab Samp ID  : D155-06W                         Dilution Factor: 1
Lab File ID  : RDL280                           Matrix          : SOIL
Ext Btch ID  : SVD046S                          % Moisture     : 12.7
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	3.0J	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	129	381.8	33.9*	40-130
2-FLUOROBIPHENYL	138	381.8	36.0*	45-130
TERPHENYL-D14	337	381.8	88.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 11:41
Sample ID:   SL-514-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 14:14
Lab Samp ID: D155-07W                           Dilution Factor: 1
Lab File ID: RDL281                             Matrix          : SOIL
Ext Btch ID: SVD046S                            % Moisture     : 13.9
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	3.0J	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	3.7J	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	210	387.1	54.4	40-130
2-FLUOROBIPHENYL	197	387.1	50.9	45-130
TERPHENYL-D14	311	387.1	80.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 11:41
Sample ID:   SL-814-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 15:06
Lab Samp ID: D155-08W                          Dilution Factor: 1
Lab File ID: RDL283                             Matrix          : SOIL
Ext Btch ID: SVD046S                           % Moisture     : 13.8
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	3.6J	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	4.9J	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	127	386.7	32.8*	40-130
2-FLUOROBIPHENYL	148	386.7	38.2*	45-130
TERPHENYL-D14	344	386.7	88.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 11:41
Sample ID    : SL-680-SA5C-SB-0.0-0.5          Date Analyzed: 04/30/12 15:31
Lab Samp ID  : D155-09W                         Dilution Factor: 1
Lab File ID  : RDL284                           Matrix          : SOIL
Ext Btch ID  : SVD046S                          % Moisture     : 13.8
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	4.7J	12	2.9
BENZO (A) PYRENE	7.5J	12	2.9
BENZO (B) FLUORANTHENE	13	12	2.9
BENZO (K) FLUORANTHENE	4.4J	12	2.9
BENZO (G, H, I) PERYLENE	3.8J	12	2.9
CHRYSENE	7.7J	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	17	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	3.5J	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	7.7J	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	8.4	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	150	386.7	38.7*	40-130
2-FLUOROBIPHENYL	165	386.7	42.7*	45-130
TERPHENYL-D14	325	386.7	84.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 11:41
Sample ID    : SL-577-SA5C-SB-0.0-0.5          Date Analyzed: 04/30/12 15:57
Lab Samp ID  : D155-10W                         Dilution Factor: 1
Lab File ID  : RDL285                           Matrix          : SOIL
Ext Btch ID  : SVD046S                          % Moisture     : 14.7
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	7.4J	12	2.9
BENZO (A) PYRENE	9.5J	12	2.9
BENZO (B) FLUORANTHENE	16	12	2.9
BENZO (K) FLUORANTHENE	5.8J	12	2.9
BENZO (G, H, I) PERYLENE	3.3J	12	2.9
CHRYSENE	11J	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	21	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	3.3J	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	6.4J	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
AZOBENZENE	ND	5.9	2.9
BENZO (E) PYRENE	8.3	5.9	2.9
BIPHENYL	ND	5.9	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	177	390.7	45.3	40-130
2-FLUOROBIPHENYL	178	390.7	45.7	45-130
TERPHENYL-D14	320	390.7	81.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 11:41
Sample ID    : SL-581-SA5C-SB-0.0-0.5          Date Analyzed: 04/30/12 17:14
Lab Samp ID  : D155-11W                         Dilution Factor: 3
Lab File ID  : RDL288                           Matrix          : SOIL
Ext Btch ID  : SVD046S                          % Moisture     : 11.6
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	34	8.5
ACENAPHTHYLENE	ND	34	8.5
ANTHRACENE	ND	34	8.5
BENZO (A) ANTHRACENE	ND	34	8.5
BENZO (A) PYRENE	31J	34	8.5
BENZO (B) FLUORANTHENE	55	34	8.5
BENZO (K) FLUORANTHENE	33J	34	8.5
BENZO (G, H, I) PERYLENE	17J	34	8.5
CHRYSENE	46	34	8.5
DIBENZO (A, H) ANTHRACENE	ND	34	8.5
FLUORANTHENE	29J	34	8.5
FLUORENE	ND	34	8.5
INDENO (1, 2, 3-CD) PYRENE	ND	34	8.5
NAPHTHALENE	ND	34	8.5
PHENANTHRENE	ND	34	8.5
2-METHYLNAPHTHALENE	ND	34	8.5
1-METHYLNAPHTHALENE	ND	34	8.5
N-NITROSODIMETHYLAMINE	ND	34	8.5
AZOBENZENE	ND	17	8.5
BENZO (E) PYRENE	60	17	8.5
BIPHENYL	ND	17	8.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	182	377.0	48.4	40-130
2-FLUOROBIPHENYL	191	377.0	50.6	45-130
TERPHENYL-D14	358	377.0	94.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 11:41
Sample ID    : SL-747-SA5C-SB-0.0-0.5          Date Analyzed: 04/30/12 16:23
Lab Samp ID  : D155-12W                         Dilution Factor: 1
Lab File ID  : RDL286                           Matrix          : SOIL
Ext Btch ID  : SVD046S                          % Moisture     : 15.4
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	3.0
ACENAPHTHYLENE	ND	12	3.0
ANTHRACENE	ND	12	3.0
BENZO (A) ANTHRACENE	8.4J	12	3.0
BENZO (A) PYRENE	12	12	3.0
BENZO (B) FLUORANTHENE	18	12	3.0
BENZO (K) FLUORANTHENE	6.5J	12	3.0
BENZO (G, H, I) PERYLENE	4.7J	12	3.0
CHRYSENE	11J	12	3.0
DIBENZO (A, H) ANTHRACENE	ND	12	3.0
FLUORANTHENE	24	12	3.0
FLUORENE	ND	12	3.0
INDENO (1, 2, 3-CD) PYRENE	3.9J	12	3.0
NAPHTHALENE	ND	12	3.0
PHENANTHRENE	9.8J	12	3.0
2-METHYLNAPHTHALENE	ND	12	3.0
1-METHYLNAPHTHALENE	ND	12	3.0
N-NITROSODIMETHYLAMINE	ND	12	3.0
AZOBENZENE	ND	5.9	3.0
BENZO (E) PYRENE	11	5.9	3.0
BIPHENYL	ND	5.9	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	159	394.0	40.4	40-130
2-FLUOROBIPHENYL	174	394.0	44.2*	45-130
TERPHENYL-D14	347	394.0	88.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 11:41
Sample ID    : MBLK1S                            Date Analyzed: 04/28/12 13:51
Lab Samp ID  : SVD046SB                         Dilution Factor: 1
Lab File ID  : RDL244                           Matrix          : SOIL
Ext Btch ID  : SVD046S                          % Moisture     : NA
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	253	333.3	75.9	40-130
2-FLUOROBIPHENYL	267	333.3	80.2	45-130
TERPHENYL-D14	331	333.3	99.3	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D155  
METHOD: METHOD 3550B/8270C SIM

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MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVD046SB SVD046SX SVD046SY  
LAB FILE ID: RDL244 RDL276 RDL277  
DATE EXTRACTED: 04/24/1211:41 04/24/1211:41 04/24/1211:41 DATE COLLECTED: NA  
DATE ANALYZED: 04/28/1213:51 04/30/1212:13 04/30/1212:32 DATE RECEIVED: 04/24/12  
PREP. BATCH: SVD046S SVD046S SVD046S  
CALIB. REF: RDL204 RDL204 RDL204

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	335	101	333	305	92	9	10-130	50
Acenaphthylene	ND	333	345	103	333	313	94	10	20-130	50
Anthracene	ND	333	329	99	333	307	92	7	20-130	50
Benzo (a) anthracene	ND	333	383	115	333	354	106	8	30-130	50
Benzo (a) pyrene	ND	333	403	121	333	381	114	6	30-130	50
Benzo (b) fluoranthene	ND	333	425	127	333	429	129	1	40-130	50
Benzo (k) fluoranthene	ND	333	406	122	333	372	112	9	30-140	50
Benzo (g, h, i) perylene	ND	333	289	87	333	267	80	8	30-140	50
Chrysene	ND	333	386	116	333	356	107	8	30-140	50
Dibenzo (a, h) anthracene	ND	333	357	107	333	341	102	5	40-140	50
Fluoranthene	ND	333	400	120	333	376	113	6	30-130	50
Fluorene	ND	333	345	104	333	326	98	6	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	342	103	333	321	96	6	20-160	50
Naphthalene	ND	333	321	96	333	283	85	12	10-130	50
Phenanthrene	ND	333	323	97	333	303	91	6	20-130	50
2-Methylnaphthalene	ND	333	336	101	333	315	95	6	30-150	50
1-Methylnaphthalene	ND	333	345	104	333	309	93	11	30-150	50
N-Nitrosodimethylamine	ND	333	359	108	333	292	88	21	30-150	50
Azobenzene	ND	333	324	97	333	298	89	8	30-150	50
Benzo (e) pyrene	ND	333	354	106	333	342	102	4	30-150	50
Biphenyl	ND	333	270	81	333	246	74	9	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	253	76	333	253	76	40-130
2-Fluorobiphenyl	333	264	79	333	245	74	45-130
Terphenyl-d14	333	337	101	333	328	98	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D155  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 13.9  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-514-SA5C-SB-0.0-0.5  
LAB SAMP ID: D155-07W D155-07M D155-07S  
LAB FILE ID: RDL281 RDL274 RDL275  
DATE EXTRACTED: 04/24/1211:41 04/24/1211:41 04/24/1211:41 DATE COLLECTED: 04/17/12  
DATE ANALYZED: 04/30/1214:14 04/30/1210:27 04/30/1210:50 DATE RECEIVED: 04/17/12  
PREP. BATCH: SVD046S SVD046S SVD046S  
CALIB. REF: RDL204 RDL204 RDL204

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	387	211	54	387	233	60	10	10-130	50
Acenaphthylene	ND	387	213	55	387	234	61	9	20-130	50
Anthracene	ND	387	283	73	387	323	84	13	20-130	50
Benzo (a) anthracene	ND	387	346	89	387	389	101	12	30-130	50
Benzo (a) pyrene	ND	387	362	93	387	404	104	11	30-130	50
Benzo (b) fluoranthene	3.03J	387	408	105	387	461	118	12	30-130	50
Benzo (k) fluoranthene	ND	387	366	95	387	396	102	8	30-130	50
Benzo (g, h, i) perylene	ND	387	304	79	387	306	79	1	30-140	50
Chrysene	ND	387	362	93	387	404	104	11	20-130	50
Dibenzo (a, h) anthracene	ND	387	337	87	387	371	96	9	30-130	50
Fluoranthene	3.67J	387	371	95	387	428	110	14	30-150	50
Fluorene	ND	387	258	67	387	287	74	10	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	387	326	84	387	358	92	9	20-160	50
Naphthalene	ND	387	114	30	387	132	34	15	10-130	50
Phenanthrene	ND	387	283	73	387	319	82	12	20-130	50
2-Methylnaphthalene	ND	387	160	41	387	175	45	9	30-150	50
1-Methylnaphthalene	ND	387	163	42	387	181	47	10	30-150	50
N-Nitrosodimethylamine	ND	387	180	47	387	215	56	18	20-150	50
Azobenzene	ND	387	239	62	387	262	68	9	30-150	50
Benzo (e) pyrene	ND	387	367	95	387	378	98	3	30-150	50
Biphenyl	ND	387	134	35	387	147	38	9	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	387	135	35*	387	149	38*	40-130
2-Fluorobiphenyl	387	127	33*	387	147	38*	45-130
Terphenyl-d14	387	310	80	387	357	92	45-135

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/16/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-744A-SA5C-SB-1.5-2.5         Date Analyzed: 04/30/12 11:01
Lab Samp ID  : D155-01W                         Dilution Factor: 1
Lab File ID  : KD30005A                         Matrix          : SOIL
Ext Btch ID  : CPD057S                          % Moisture     : 7.8
Calib. Ref.  : KD30002A                         Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.18)   12.15	14.46	(112)   84.0	45-120
TETRACHLORO-M-XYLENE	(14.79)   10.17	14.46	(102)   70.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/16/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-744B-SA5C-SB-0.0-0.5         Date Analyzed: 04/27/12 18:01
Lab Samp ID  : D155-02                           Dilution Factor: 1
Lab File ID  : KD27011A                         Matrix          : SOIL
Ext Btch ID  : CPD057S                          % Moisture     : 16.9
Calib. Ref.  : KD27002A                         Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	48	24   24	
AROCLOR 5442	(ND)   ND	48	24   24	
AROCLOR 5460	(ND)   ND	48	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.01)   12.23	16.04	(93.6)   76.2	45-120
TETRACHLORO-M-XYLENE	(15.68)   13.78	16.04	(97.7)   85.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/16/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-744B-SA5C-SB-2.0-3.0         Date Analyzed: 04/27/12 18:54
Lab Samp ID  : D155-03                          Dilution Factor: 1
Lab File ID  : KD27012A                        Matrix          : SOIL
Ext Btch ID  : CPD057S                         % Moisture     : 9.2
Calib. Ref.  : KD27002A                       Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	21.68   (16.63)	14.68	148*   (113)	45-120
TETRACHLORO-M-XYLENE	(23.00)   17.27	14.68	(157)   118	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/16/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-744C-SA5C-SB-0.0-0.5         Date Analyzed: 04/28/12 12:36
Lab Samp ID  : D155-04                           Dilution Factor: 1
Lab File ID  : KD27034A                          Matrix          : SOIL
Ext Btch ID  : CPD057S                            % Moisture     : 15.3
Calib. Ref.  : KD27030A                          Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	47	24   24	
AROCLOR 5442	(ND)   ND	47	24   24	
AROCLOR 5460	(ND)   ND	47	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.01)   11.82	15.74	(95.4)   75.1	45-120
TETRACHLORO-M-XYLENE	(16.48)   14.05	15.74	(105)   89.3	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/16/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-744C-SA5C-SB-2.0-3.0         Date Analyzed: 04/28/12 13:29
Lab Samp ID  : D155-05                          Dilution Factor: 1
Lab File ID  : KD27035A                        Matrix          : SOIL
Ext Btch ID  : CPD057S                         % Moisture     : 6.6
Calib. Ref.  : KD27030A                       Instrument ID   : GCT071
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.17)   11.32	14.27	(99.3)   79.3	45-120
TETRACHLORO-M-XYLENE	(14.25)   12.08	14.27	(99.8)   84.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-578-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 14:22
Lab Samp ID  : D155-06                           Dilution Factor: 1
Lab File ID  : KD27036A                         Matrix          : SOIL
Ext Btch ID  : CPD057S                           % Moisture     : 12.7
Calib. Ref.  : KD27030A                         Instrument ID   : GCT071
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.61)   11.62	15.27	(95.7)   76.1	45-120
TETRACHLORO-M-XYLENE	(16.04)   13.22	15.27	(105)   86.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-514-SA5C-SB-0.0-0.5          Date Analyzed: 04/27/12 19:47
Lab Samp ID  : D155-07                          Dilution Factor: 1
Lab File ID  : KD27013A                        Matrix          : SOIL
Ext Btch ID  : CPD057S                         % Moisture     : 13.9
Calib. Ref.  : KD27002A                       Instrument ID   : GCT071
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	22.35   (16.53)	15.48	144*   (107)	45-120
TETRACHLORO-M-XYLENE	26.70   (18.91)	15.48	172*   (122)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-814-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 15:15
Lab Samp ID  : D155-08                          Dilution Factor: 1
Lab File ID  : KD27037A                        Matrix          : SOIL
Ext Btch ID  : CPD057S                         % Moisture     : 13.8
Calib. Ref.  : KD27030A                       Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.82)   12.26	15.46	(102)   79.3	45-120
TETRACHLORO-M-XYLENE	(18.32)   15.16	15.46	(118)   98.0	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-680-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 16:08
Lab Samp ID  : D155-09                          Dilution Factor: 1
Lab File ID  : KD27038A                        Matrix          : SOIL
Ext Btch ID  : CPD057S                         % Moisture     : 13.8
Calib. Ref.  : KD27030A                       Instrument ID   : GCT071
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```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(12J)   12J	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.30)   10.15	15.46	(92.5)   65.6	45-120
TETRACHLORO-M-XYLENE	(19.10)   14.17	15.46	(124)   91.6	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-577-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 17:01
Lab Samp ID  : D155-10                          Dilution Factor: 1
Lab File ID  : KD27039A                        Matrix          : SOIL
Ext Btch ID  : CPD057S                          % Moisture     : 14.7
Calib. Ref.  : KD27030A                        Instrument ID   : GCT071
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(170)   130	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.54)   11.43	15.63	(93.1)   73.2	45-120
TETRACHLORO-M-XYLENE	(17.13)   13.33	15.63	(110)   85.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-581-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 17:54
Lab Samp ID  : D155-11                          Dilution Factor: 1
Lab File ID  : KD27040A                        Matrix          : SOIL
Ext Btch ID  : CPD057S                         % Moisture     : 11.6
Calib. Ref.  : KD27030A                       Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.21)   9.182	15.08	(81.0)   60.9	45-120
TETRACHLORO-M-XYLENE	(18.14)   14.96	15.08	(120)   99.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
Batch No.    : 12D155                           Date Extracted: 04/24/12 14:52
Sample ID    : SL-747-SA5C-SB-0.0-0.5          Date Analyzed: 04/28/12 18:47
Lab Samp ID  : D155-12                          Dilution Factor: 1
Lab File ID  : KD27041A                        Matrix          : SOIL
Ext Btch ID  : CPD057S                          % Moisture     : 15.4
Calib. Ref.  : KD27030A                        Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(27)   25	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	47	24   24	
AROCLOR 5442	(ND)   ND	47	24   24	
AROCLOR 5460	(ND)   ND	47	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	14.28   (14.48)	15.76	90.7   (91.9)	45-120
TETRACHLORO-M-XYLENE	(17.99)   14.44	15.76	(114)   91.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 04/24/12
Batch No.    : 12D155                             Date Extracted: 04/24/12 14:52
Sample ID    : MBLK1S                             Date Analyzed: 04/27/12 15:00
Lab Samp ID  : 60D057SB                           Dilution Factor: 1
Lab File ID  : KD27007A                           Matrix          : SOIL
Ext Btch ID  : CPD057S                             % Moisture      : NA
Calib. Ref.  : KD27002A                           Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.60)   11.37	13.33	(102)   85.3	45-120
TETRACHLORO-M-XYLENE	(14.54)   14.14	13.33	(109)   106	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D155  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60D057SB 60D057SL 60D057SC  
LAB FILE ID: KD27007A KD27008A KD27009A  
DATE EXTRACTED: 04/24/1214:52 04/24/1214:52 04/24/1214:52 DATE COLLECTED: NA  
DATE ANALYZED: 04/27/1215:00 04/27/1215:53 04/27/1216:46 DATE RECEIVED: 04/24/12  
PREP. BATCH: CPD057S CPD057S CPD057S  
CALIB. REF: KD27002A KD27002A KD27002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(153)   131	(92)   79	167	(151)   129	(91)   77	(1)   2	50-130	50
Aroclor 1260	(ND)   ND	167	156   (162)	94   (97)	167	158   (162)	95   (97)	1   (0)	60-150	50
Aroclor 5460	(ND)   ND	83.3	69.6   (76.5)	83.6   (91.8)	83.3	72.5   (79.7)	87.0   (95.7)	4   (4)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(13.63)   11.33	(102)   85.0	13.33	(13.38)   11.19	(100)   84.0	45-120
Tetrachloro-m-xylene	13.33	(14.86)   13.59	(111)   102	13.33	(14.32)   13.04	(107)   97.8	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D155  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 13.9  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-514-SA5C-SB-0.0-0.5  
LAB SAMP ID: D155-07 D155-07M D155-07S  
LAB FILE ID: KD27013A KD27014A KD27015A  
DATE EXTRACTED: 04/24/1214:52 04/24/1214:52 04/24/1214:52 DATE COLLECTED: 04/17/12  
DATE ANALYZED: 04/27/1219:47 04/27/1220:40 04/27/1221:33 DATE RECEIVED: 04/17/12  
PREP. BATCH: CPD057S CPD057S CPD057S  
CALIB. REF: KD27002A KD27002A KD27002A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	194	(248)   195	(128)   101	194	(235)   172	(121)   89	(5)   13	20-160	50
Aroclor 1260	(ND)   ND	194	(265)   246	(137)   127	194	(271)   227	(140)   117	(2)   8	20-160	50
Aroclor 5460	(ND)   ND	96.8	127   (147)	131   (152)	96.8	117   (144)	121   (149)	8   (2)	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	15.48	22.04   (16.58)	142*   (107)	15.48	21.04   (15.27)	136*   (98.6)	45-120
Tetrachloro-m-xylene	15.48	26.60   (20.41)	172*   (132)	15.48	25.79   (20.06)	167*   (130)	10-160

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/17/12
Project     : SSFL PHASE 3                     Date Received: 04/17/12
SDG NO.    : 12D155                           Date Extracted: 04/25/12 10:28
Sample ID:  SL-578-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 16:25
Lab Samp ID: D155-06                          Dilution Factor: 0.980
Lab File ID: 98D21048                         Matrix          : SOIL
Ext Btch ID: IMD036S                          % Moisture     : 12.7
Calib. Ref.: 98D21038                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12900	112	13.5
Antimony	0.210J	0.561	0.112
Arsenic	3.46	0.561	0.225
Barium	101	0.561	0.225
Beryllium	0.552J	0.561	0.0561
Boron	ND	5.61	2.81
Cadmium	0.294J	0.561	0.0561
Calcium	2800	22.5	11.2
Chromium	16.0	0.561	0.225
Cobalt	6.43	0.561	0.0561
Copper	9.81	0.561	0.225
Iron	15500	112	11.2
Lead	10.6	0.561	0.112
Magnesium	3010	11.2	5.61
Manganese	322	0.561	0.281
Molybdenum	0.639	0.561	0.0561
Nickel	10.6	0.561	0.225
Potassium	2860	112	33.7
Selenium	ND	0.561	0.225
Silver	ND	0.561	0.0561
Sodium	ND	112	56.1
Strontium	23.4	0.561	0.281
Thallium	0.222J	0.449	0.0561
Tin	ND	11.2	5.61
Titanium	571	1.12	0.561
Vanadium	31.8	0.561	0.0561
Zinc	39.4	5.61	1.68
Lithium	9.88	2.25	1.12
Phosphorus	185	13.5	6.74
Zirconium	ND	5.61	2.81

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/17/12
Project     : SSFL PHASE 3                     Date Received: 04/17/12
SDG NO.    : 12D155                           Date Extracted: 04/25/12 10:28
Sample ID:  SL-514-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 16:16
Lab Samp ID: D155-07                          Dilution Factor: 1.00
Lab File ID: 98D21046                         Matrix          : SOIL
Ext Btch ID: IMD036S                          % Moisture     : 13.9
Calib. Ref.: 98D21038                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11000	116	13.9
Antimony	0.229J	0.581	0.116
Arsenic	3.35	0.581	0.232
Barium	100	0.581	0.232
Beryllium	0.487J	0.581	0.0581
Boron	ND	5.81	2.90
Cadmium	0.306J	0.581	0.0581
Calcium	2210	23.2	11.6
Chromium	15.4	0.581	0.232
Cobalt	5.76	0.581	0.0581
Copper	9.87	0.581	0.232
Iron	14400	116	11.6
Lead	13.7	0.581	0.116
Magnesium	2770	11.6	5.81
Manganese	286	0.581	0.290
Molybdenum	0.667	0.581	0.0581
Nickel	10.3	0.581	0.232
Potassium	2670	116	34.8
Selenium	ND	0.581	0.232
Silver	0.0660J	0.581	0.0581
Sodium	65.7J	116	58.1
Strontium	22.7	0.581	0.290
Thallium	0.227J	0.465	0.0581
Tin	ND	11.6	5.81
Titanium	652	1.16	0.581
Vanadium	30.3	0.581	0.0581
Zinc	42.4	5.81	1.74
Lithium	9.05	2.32	1.16
Phosphorus	196	13.9	6.97
Zirconium	ND	5.81	2.90

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 04/17/12
Project      : SSFL PHASE 3                     Date Received: 04/17/12
SDG NO.     : 12D155                           Date Extracted: 04/25/12 10:28
Sample ID   : SL-814-SA5C-SB-0.0-0.5          Date Analyzed: 04/30/12 16:46
Lab Samp ID : D155-08                           Dilution Factor: 0.976
Lab File ID : 98D21052                         Matrix          : SOIL
Ext Btch ID : IMD036S                          % Moisture     : 13.8
Calib. Ref. : 98D21050                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9630	113	13.6
Antimony	0.273J	0.566	0.113
Arsenic	3.32	0.566	0.226
Barium	95.0	0.566	0.226
Beryllium	0.504J	0.566	0.0566
Boron	ND	5.66	2.83
Cadmium	0.290J	0.566	0.0566
Calcium	2130	22.6	11.3
Chromium	28.7	0.566	0.226
Cobalt	5.77	0.566	0.0566
Copper	9.64	0.566	0.226
Iron	14300	113	11.3
Lead	14.1	0.566	0.113
Magnesium	2480	11.3	5.66
Manganese	276	0.566	0.283
Molybdenum	0.849	0.566	0.0566
Nickel	17.3	0.566	0.226
Potassium	2500	113	34.0
Selenium	ND	0.566	0.226
Silver	0.0648J	0.566	0.0566
Sodium	66.7J	113	56.6
Strontium	22.0	0.566	0.283
Thallium	0.226J	0.453	0.0566
Tin	ND	11.3	5.66
Titanium	630	1.13	0.566
Vanadium	29.7	0.566	0.0566
Zinc	40.4	5.66	1.70
Lithium	8.83	2.26	1.13
Phosphorus	189	13.6	6.79
Zirconium	ND	5.66	2.83

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/17/12
Project     : SSFL PHASE 3                     Date Received: 04/17/12
SDG NO.    : 12D155                           Date Extracted: 04/25/12 10:28
Sample ID:  SL-680-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 16:50
Lab Samp ID: D155-09                          Dilution Factor: 0.990
Lab File ID: 98D21053                         Matrix          : SOIL
Ext Btch ID: IMD036S                          % Moisture     : 13.8
Calib. Ref.: 98D21050                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15900	115	13.8
Antimony	1.20	0.574	0.115
Arsenic	4.74	0.574	0.230
Barium	118	0.574	0.230
Beryllium	0.703	0.574	0.0574
Boron	19.2	5.74	2.87
Cadmium	0.338J	0.574	0.0574
Calcium	5310	23.0	11.5
Chromium	20.8	0.574	0.230
Cobalt	7.14	0.574	0.0574
Copper	9.71	0.574	0.230
Iron	23100	115	11.5
Lead	11.6	0.574	0.115
Magnesium	5170	11.5	5.74
Manganese	320	0.574	0.287
Molybdenum	0.513J	0.574	0.0574
Nickel	12.0	0.574	0.230
Potassium	3630	115	34.5
Selenium	ND	0.574	0.230
Silver	0.0775J	0.574	0.0574
Sodium	159	115	57.4
Strontium	27.8	0.574	0.287
Thallium	0.315J	0.459	0.0574
Tin	ND	11.5	5.74
Titanium	1180	1.15	0.574
Vanadium	40.3	0.574	0.0574
Zinc	83.0	5.74	1.72
Lithium	24.8	2.30	1.15
Phosphorus	352	13.8	6.89
Zirconium	ND	5.74	2.87

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/17/12
Project    : SSFL PHASE 3                     Date Received: 04/17/12
SDG NO.    : 12D155                           Date Extracted: 04/25/12 10:28
Sample ID: SL-577-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 16:55
Lab Samp ID: D155-10                         Dilution Factor: 1.00
Lab File ID: 98D21054                       Matrix          : SOIL
Ext Btch ID: IMD036S                        % Moisture     : 14.7
Calib. Ref.: 98D21050                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14300	117	14.1
Antimony	0.246J	0.586	0.117
Arsenic	4.29	0.586	0.234
Barium	101	0.586	0.234
Beryllium	0.604	0.586	0.0586
Boron	4.18J	5.86	2.93
Cadmium	0.603	0.586	0.0586
Calcium	8760	23.4	11.7
Chromium	20.3	0.586	0.234
Cobalt	7.14	0.586	0.0586
Copper	12.4	0.586	0.234
Iron	20000	117	11.7
Lead	18.3	0.586	0.117
Magnesium	4090	11.7	5.86
Manganese	322	0.586	0.293
Molybdenum	0.510J	0.586	0.0586
Nickel	12.9	0.586	0.234
Potassium	3390	117	35.2
Selenium	ND	0.586	0.234
Silver	0.517J	0.586	0.0586
Sodium	76.6J	117	58.6
Strontium	31.7	0.586	0.293
Thallium	0.241J	0.469	0.0586
Tin	ND	11.7	5.86
Titanium	707	1.17	0.586
Vanadium	39.6	0.586	0.0586
Zinc	97.1	5.86	1.76
Lithium	14.5	2.34	1.17
Phosphorus	331	14.1	7.03
Zirconium	ND	5.86	2.93

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/17/12
Project    : SSFL PHASE 3                     Date Received: 04/17/12
SDG NO.    : 12D155                           Date Extracted: 04/25/12 10:28
Sample ID: SL-581-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 16:59
Lab Samp ID: D155-11                         Dilution Factor: 0.985
Lab File ID: 98D21055                        Matrix          : SOIL
Ext Btch ID: IMD036S                         % Moisture     : 11.6
Calib. Ref.: 98D21050                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10800	111	13.4
Antimony	0.223J	0.557	0.111
Arsenic	3.21	0.557	0.223
Barium	99.5	0.557	0.223
Beryllium	0.530J	0.557	0.0557
Boron	3.03J	5.57	2.79
Cadmium	0.355J	0.557	0.0557
Calcium	2420	22.3	11.1
Chromium	16.0	0.557	0.223
Cobalt	6.44	0.557	0.0557
Copper	10.8	0.557	0.223
Iron	14700	111	11.1
Lead	11.4	0.557	0.111
Magnesium	2790	11.1	5.57
Manganese	351	0.557	0.279
Molybdenum	0.678	0.557	0.0557
Nickel	10.4	0.557	0.223
Potassium	2410	111	33.4
Selenium	ND	0.557	0.223
Silver	0.0571J	0.557	0.0557
Sodium	73.9J	111	55.7
Strontium	26.5	0.557	0.279
Thallium	0.228J	0.446	0.0557
Tin	ND	11.1	5.57
Titanium	657	1.11	0.557
Vanadium	30.8	0.557	0.0557
Zinc	62.0	5.57	1.67
Lithium	9.43	2.23	1.11
Phosphorus	184	13.4	6.69
Zirconium	ND	5.57	2.79

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/17/12
Project    : SSFL PHASE 3                     Date Received: 04/17/12
SDG NO.    : 12D155                           Date Extracted: 04/25/12 10:28
Sample ID: SL-747-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 17:04
Lab Samp ID: D155-12                          Dilution Factor: 0.952
Lab File ID: 98D21056                         Matrix          : SOIL
Ext Btch ID: IMD036S                           % Moisture     : 15.4
Calib. Ref.: 98D21050                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13600	113	13.5
Antimony	0.514J	0.563	0.113
Arsenic	4.18	0.563	0.225
Barium	117	0.563	0.225
Beryllium	0.631	0.563	0.0563
Boron	3.12J	5.63	2.81
Cadmium	0.924	0.563	0.0563
Calcium	3410	22.5	11.3
Chromium	20.9	0.563	0.225
Cobalt	6.87	0.563	0.0563
Copper	36.8	0.563	0.225
Iron	18300	113	11.3
Lead	30.1	0.563	0.113
Magnesium	3500	11.3	5.63
Manganese	345	0.563	0.281
Molybdenum	0.960	0.563	0.0563
Nickel	20.3	0.563	0.225
Potassium	3040	113	33.8
Selenium	ND	0.563	0.225
Silver	0.413J	0.563	0.0563
Sodium	81.5J	113	56.3
Strontium	32.5	0.563	0.281
Thallium	0.233J	0.450	0.0563
Tin	ND	11.3	5.63
Titanium	574	1.13	0.563
Vanadium	36.0	0.563	0.0563
Zinc	276	5.63	1.69
Lithium	13.3	2.25	1.13
Phosphorus	291	13.5	6.75
Zirconium	ND	5.63	2.81

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 04/25/12
SDG NO.    : 12D155                           Date Extracted: 04/25/12 10:28
Sample ID: MBLK1S                             Date Analyzed: 04/30/12 15:49
Lab Samp ID: IMD036SB                         Dilution Factor: 1
Lab File ID: 98D21040                         Matrix          : SOIL
Ext Btch ID: IMD036S                           % Moisture     : NA
Calib. Ref.: 98D21038                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D155  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMD036SB IMD036SL IMD036SC  
LAB FILE ID: 98D21040 98D21041 98D21042  
DATIME EXTRCTD: 04/25/1210:28 04/25/1210:28 04/25/1210:28 DATE COLLECTED: NA  
DATIME ANALYZD: 04/30/1215:49 04/30/1215:54 04/30/1215:58 DATE RECEIVED: 04/25/12  
PREP. BATCH: IMD036S IMD036S IMD036S  
CALIB. REF: 98D21038 98D21038 98D21038

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2590	104	2500	2610	104	1	80-120	20
Antimony	ND	25.0	26.4	105	25.0	26.4	105	0	80-120	20
Arsenic	ND	25.0	25.9	104	25.0	25.5	102	2	80-120	20
Barium	ND	25.0	25.3	101	25.0	25.2	101	0	80-120	20
Beryllium	ND	25.0	24.7	99	25.0	24.2	97	2	80-120	20
Boron	ND	25.0	25.1	101	25.0	24.6	98	2	80-120	20
Cadmium	ND	25.0	25.1	101	25.0	24.9	99	1	80-120	20
Calcium	ND	2500	2620	105	2500	2650	106	1	80-120	20
Chromium	ND	25.0	24.8	99	25.0	24.7	99	0	80-120	20
Cobalt	ND	25.0	24.6	98	25.0	24.2	97	1	80-120	20
Copper	ND	25.0	24.1	97	25.0	24.2	97	0	80-120	20
Iron	ND	2500	2570	103	2500	2560	103	0	80-120	20
Lead	ND	25.0	25.1	100	25.0	24.5	98	2	80-120	20
Magnesium	ND	2500	2570	103	2500	2600	104	1	80-120	20
Manganese	ND	25.0	24.9	100	25.0	24.7	99	1	80-120	20
Molybdenum	ND	25.0	25.8	103	25.0	25.7	103	0	80-120	20
Nickel	ND	25.0	24.2	97	25.0	24.0	96	1	80-120	20
Potassium	ND	2500	2690	108	2500	2700	108	0	80-120	20
Selenium	ND	25.0	25.9	104	25.0	25.6	102	1	80-120	20
Silver	ND	25.0	25.3	101	25.0	25.1	101	1	80-120	20
Sodium	ND	2500	2620	105	2500	2650	106	1	80-120	20
Strontium	ND	25.0	26.9	108	25.0	26.9	108	0	80-120	20
Thallium	ND	25.0	25.5	102	25.0	25.4	102	0	80-120	20
Tin	ND	25.0	28.5	114	25.0	28.2	113	1	80-120	20
Titanium	ND	25.0	26.2	105	25.0	25.7	103	2	80-120	20
Vanadium	ND	25.0	25.4	102	25.0	25.3	101	0	80-120	20
Zinc	ND	50.0	50.5	101	50.0	50.9	102	1	80-120	20
Lithium	ND	25.0	25.3	101	25.0	24.9	100	2	80-120	20
Phosphorus	ND	250	251	101	250	251	101	0	80-120	20
Zirconium	ND	25.0	25.3	101	25.0	25.8	103	2	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D155  
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 13.9  
DILT N FACTR: 1.00 1.00 1.00  
SAMPLE ID: SL-514-SA5C-SB-0.0-0.5  
CONTROL NO.: D155-07 D155-07M D155-07S  
LAB FILE ID: 98D21046 98D21043 98D21044  
DATIME EXTRACTD: 04/25/1210:28 04/25/1210:28 04/25/1210:28 DATE COLLECTED: 04/17/12  
DATIME ANALYZD: 04/30/1216:16 04/30/1216:02 04/30/1216:07 DATE RECEIVED: 04/17/12  
PREP. BATCH: IMD036S IMD036S IMD036S  
CALIB. REF: 98D21038 98D21038 98D21038

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	11000	2900	14500	123	2900	14900	135*	2	75-125	20
Antimony	0.2229J	29.0	21.6	74*	29.0	21.9	75	1	75-125	20
Arsenic	3.35	29.0	31.2	96	29.0	31.2	96	0	75-125	20
Barium	100	29.0	167	231*	29.0	134	119	22*	75-125	20
Beryllium	0.487J	29.0	28.3	96	29.0	28.6	97	1	75-125	20
Boron	ND	29.0	28.6	99	29.0	28.8	99	1	75-125	20
Cadmium	0.306J	29.0	28.9	99	29.0	29.1	99	1	75-125	20
Calcium	2210	2900	5140	101	2900	5120	100	0	75-125	20
Chromium	15.4	29.0	42.4	93	29.0	46.1	106	8	75-125	20
Cobalt	5.76	29.0	36.9	107	29.0	32.5	92	13	75-125	20
Copper	9.87	29.0	35.5	88	29.0	35.6	89	0	75-125	20
Iron	14400	2900	17800	115	2900	18000	122	1	75-125	20
Lead	13.7	29.0	43.6	103	29.0	43.2	102	1	75-125	20
Magnesium	2770	2900	5620	98	2900	5730	102	2	75-125	20
Manganese	286	29.0	739	1561*	29.0	329	149*	77*	75-125	20
Molybdenum	0.667	29.0	29.0	97	29.0	30.1	101	4	75-125	20
Nickel	10.3	29.0	38.5	97	29.0	38.2	96	1	75-125	20
Potassium	2670	2900	5640	103	2900	5700	104	1	75-125	20
Selenium	ND	29.0	28.8	99	29.0	28.6	99	1	75-125	20
Silver	0.0660J	29.0	28.7	98	29.0	29.3	101	2	75-125	20
Sodium	65.7J	2900	2940	99	2900	2940	99	0	75-125	20
Strontium	22.7	29.0	53.4	106	29.0	52.8	104	1	75-125	20
Thallium	0.227J	29.0	29.2	100	29.0	29.0	99	1	75-125	20
Tin	ND	29.0	33.3	115	29.0	33.4	115	0	75-125	20
Titanium	652	29.0	704	178*	29.0	725	250*	3	75-125	20
Vanadium	30.3	29.0	59.6	101	29.0	59.9	102	1	75-125	20
Zinc	42.4	58.1	99.5	98	58.1	101	100	1	75-125	20
Lithium	9.05	29.0	38.8	103	29.0	39.9	106	3	75-125	20
Phosphorus	196	290	480	98	290	498	104	4	75-125	20
Zirconium	ND	29.0	12.6	43*	29.0	11.8	41*	7	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D155  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 13.9  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-514-SA5C-SB-0.0-0.5  
CONTROL NO.: D155-07 D155-07A  
LAB FILE ID: 98D21046 98D21045  
DATIME EXTRACTD: 04/25/1210:28 04/25/1210:28 DATE COLLECTED: 04/17/12  
DATIME ANALYZD: 04/30/1216:16 04/30/1216:11 DATE RECEIVED: 04/17/12  
PREP. BATCH: IMD036S IMD036S  
CALIB. REF: 98D21038 98D21038

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	11000	2900	14100	107	75-125
Antimony	0.229J	29.0	30.2	103	75-125
Arsenic	3.35	29.0	31.3	96	75-125
Barium	100	29.0	132	110	75-125
Beryllium	0.487J	29.0	27.5	93	75-125
Boron	ND	29.0	30.3	104	75-125
Cadmium	0.306J	29.0	28.5	97	75-125
Calcium	2210	2900	5160	101	75-125
Chromium	15.4	29.0	41.7	90	75-125
Cobalt	5.76	29.0	31.4	88	75-125
Copper	9.87	29.0	34.9	86	75-125
Iron	14400	2900	17300	98	75-125
Lead	13.7	29.0	40.9	94	75-125
Magnesium	2770	2900	5740	102	75-125
Manganese	286	29.0	312	93	75-125
Molybdenum	0.667	29.0	30.1	101	75-125
Nickel	10.3	29.0	35.6	87	75-125
Potassium	2670	2900	5600	101	75-125
Selenium	ND	29.0	28.5	98	75-125
Silver	0.0660J	29.0	28.3	97	75-125
Sodium	65.7J	2900	2880	97	75-125
Strontium	22.7	29.0	52.2	101	75-125
Thallium	0.227J	29.0	28.4	97	75-125
Tin	ND	29.0	32.7	113	75-125
Titanium	652	29.0	694	144*	75-125
Vanadium	30.3	29.0	57.5	94	75-125
Zinc	42.4	58.1	98.0	96	75-125
Lithium	9.05	29.0	37.7	99	75-125
Phosphorus	196	290	512	109	75-125
Zirconium	ND	29.0	28.9	100	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D155  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 13.9  
DILUTION FACTOR: 1.00 5.00  
SAMPLE ID: SL-514-SA5C-SB SL-514-SA5C-SB  
EMAX SAMP ID: D155-07 D155-07J  
LAB FILE ID: 98D21046 98D21047  
DATE EXTRACTED: 04/25/1210:28 04/25/1210:28 DATE COLLECTED: 04/17/12  
DATE ANALYZED: 04/30/1216:16 04/30/1216:20 DATE RECEIVED: 04/17/12  
PREP. BATCH: IMD036S IMD036S  
CALIB. REF: 98D21038 98D21038

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	11000	11300	3	10
Antimony	0.229J	ND	NA	10
Arsenic	3.35	3.38	1	10
Barium	100	94.6	5	10
Beryllium	0.487J	0.464J	NA	10
Boron	ND	ND	0	10
Cadmium	0.306J	ND	NA	10
Calcium	2210	2300	4	10
Chromium	15.4	15.8	2	10
Cobalt	5.76	6.05	5	10
Copper	9.87	10.4	6	10
Iron	14400	15000	4	10
Lead	13.7	13.8	1	10
Magnesium	2770	2850	3	10
Manganese	286	301	5	10
Molybdenum	0.667	0.662J	NA	10
Nickel	10.3	10.7	4	10
Potassium	2670	2670	0	10
Selenium	ND	ND	0	10
Silver	0.0660J	ND	NA	10
Sodium	65.7J	ND	NA	10
Strontium	22.7	22.3	2	10
Thallium	0.227J	ND	NA	10
Tin	ND	ND	0	10
Titanium	652	652	0	10
Vanadium	30.3	30.9	2	10
Zinc	42.4	43.3	2	10
Lithium	9.05	8.92J	NA	10
Phosphorus	196	203	4	10
Zirconium	ND	ND	0	10

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D155  
=====

Matrix : SOIL  
Instrument ID : G0  
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SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLD004SB	ND	1	NA	5.00	2.50	04/24/1215:06	04/23/1215:50	ND24004	ND24003	PLD004S	NA	04/23/12
LCS1S	PLD004SL	24.9	1	NA	5.00	2.50	04/24/1215:20	04/23/1215:50	ND24005	ND24003	PLD004S	NA	04/23/12
LCD1S	PLD004SC	25.6	1	NA	5.00	2.50	04/24/1215:35	04/23/1215:50	ND24006	ND24003	PLD004S	NA	04/23/12
SL-578-SA5C-SB-0.0-0.5	D155-06	ND	1	12.7	5.73	2.86	04/24/1215:49	04/23/1215:50	ND24007	ND24003	PLD004S	04/17/1211:35	04/17/12
SL-514-SA5C-SB-0.0-0.5	D155-07	ND	1	13.9	5.81	2.90	04/24/1216:03	04/23/1215:50	ND24008	ND24003	PLD004S	04/17/1210:15	04/17/12
SL-514-SA5C-SB-0.0-0.5MS	D155-07M	31.1	1	13.9	5.81	2.90	04/24/1216:17	04/23/1215:50	ND24009	ND24003	PLD004S	04/17/1210:15	04/17/12
SL-514-SA5C-SB-0.0-0.5MSDD	D155-07S	28.8	1	13.9	5.81	2.90	04/24/1216:31	04/23/1215:50	ND24010	ND24003	PLD004S	04/17/1210:15	04/17/12
SL-814-SA5C-SB-0.0-0.5	D155-08	ND	1	13.8	5.80	2.90	04/24/1216:46	04/23/1215:50	ND24011	ND24003	PLD004S	04/17/1210:10	04/17/12
SL-577-SA5C-SB-0.0-0.5	D155-10	ND	1	14.7	5.86	2.93	04/24/1217:00	04/23/1215:50	ND24012	ND24003	PLD004S	04/17/1213:30	04/17/12
SL-581-SA5C-SB-0.0-0.5	D155-11	ND	1	11.6	5.66	2.83	04/24/1217:14	04/23/1215:50	ND24013	ND24003	PLD004S	04/17/1214:40	04/17/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D155  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLD004SB PLD004SL PLD004SC  
LAB FILE ID: ND24004 ND24005 ND24006  
DATE EXTRACTED: 04/23/1215:50 04/23/1215:50 04/23/1215:50 DATE COLLECTED: NA  
DATE ANALYZED: 04/24/1215:06 04/24/1215:20 04/24/1215:35 DATE RECEIVED: 04/23/12  
PREP. BATCH: PLD004S PLD004S PLD004S  
CALIB. REF: ND24003 ND24003 ND24003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	24.9	100	25.0	25.6	102	3	85-115	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D155  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: 13.9  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-514-SA5C-SB-0.0-0.5  
LAB SAMP ID: D155-07 D155-07M D155-07S  
LAB FILE ID: ND24008 ND24009 ND24010  
DATE EXTRACTED: 04/23/1215:50 04/23/1215:50 04/23/1215:50 DATE COLLECTED: 04/17/12 10:15  
DATE ANALYZED: 04/24/1216:03 04/24/1216:17 04/24/1216:31 DATE RECEIVED: 04/17/12  
PREP. BATCH: PLD004S PLD004S PLD004S  
CALIB. REF: ND24003 ND24003 ND24003

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	29.0	31.1	107	29.0	28.8	99	8	80-120	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12D155  
 =====

Matrix : SOIL  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF MOIST		RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCD011SB	ND	1	NA	1.00	0.500	04/23/1220:06	04/20/1214:14	ID23003	ID23001	HCD011S	NA	04/20/12
MBLK1S	HCD011SQ	ND	1	NA	1.00	0.500	04/23/1220:17	04/20/1214:14	ID23004	ID23001	HCD011S	NA	04/20/12
LCS1S	CSD011SL	9.65	1	NA	1.00	0.500	04/23/1220:27	04/20/1214:14	ID23005	ID23001	HCD011S	NA	04/20/12
LCS1S	CSD011SX	9.68	1	NA	1.00	0.500	04/23/1220:37	04/20/1214:14	ID23006	ID23001	HCD011S	NA	04/20/12
LCS2S	CID011SL	253	20	NA	20.0	10.0	04/23/1220:48	04/20/1214:14	ID23007	ID23001	HCD011S	NA	04/20/12
LCS2S	CID011SX	256	20	NA	20.0	10.0	04/23/1220:58	04/20/1214:14	ID23008	ID23001	HCD011S	NA	04/20/12
SL-581-SA5C-SB-0.0-0.5	D155-11	ND	1	11.6	1.13	0.566	04/24/1201:39	04/20/1214:14	ID23033	ID23025	HCD011S	04/17/1214:40	04/17/12
SL-581-SA5C-SB-0.0-0.5	D155-11R	ND	1	11.6	1.13	0.566	04/24/1201:49	04/20/1214:14	ID23034	ID23025	HCD011S	04/17/1214:40	04/17/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D155  
METHOD: 7199

=====

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	20		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	HCD011SQ	CID011SX		
LAB FILE ID:	ID23004	ID23008		
DATE EXTRACTED:	04/20/1214:14	04/20/1214:14	DATE COLLECTED:	NA
DATE ANALYZED:	04/23/1220:17	04/23/1220:58	DATE RECEIVED:	04/20/12
PREP. BATCH:	HCD011S	HCD011S		
CALIB. REF:	ID23001	ID23001		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	306	256	84	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D155  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCD011SQ CSD011SX  
LAB FILE ID: ID23004 ID23006  
DATE EXTRACTED: 04/20/1214:14 04/20/1214:14 DATE COLLECTED: NA  
DATE ANALYZED: 04/23/1220:17 04/23/1220:37 DATE RECEIVED: 04/20/12  
PREP. BATCH: HCD011S HCD011S  
CALIB. REF: ID23001 ID23001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	9.68	97	80-120

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D155  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL	MDL	Analysis	Extraction	LFID	CAL REF	PREP BATCH	Collection	Received
			(pH Unit)	(pH Unit)	(pH Unit)		DATETIME	DATETIME				DATETIME	DATETIME
SL-578-SA5C-SB-0.0-0.5	D155-06	6.71	1	NA	NA	NA	04/18/1215:58	04/18/1215:58	12PHD019S01	PHD019S	PHD019S	04/17/1211:35	04/17/12
SL-514-SA5C-SB-0.0-0.5	D155-07	7.04	1	NA	NA	NA	04/18/1216:00	04/18/1215:58	12PHD019S02	PHD019S	PHD019S	04/17/1210:15	04/17/12
SL-514-SA5C-SB-0.0-0.5	DUPD155-07D	7.06	1	NA	NA	NA	04/18/1216:02	04/18/1215:58	12PHD019S03	PHD019S	PHD019S	04/17/1210:15	04/17/12
SL-814-SA5C-SB-0.0-0.5	D155-08	6.90	1	NA	NA	NA	04/18/1246:04	04/18/1215:58	12PHD019S04	PHD019S	PHD019S	04/17/1210:10	04/17/12
SL-680-SA5C-SB-0.0-0.5	D155-09	8.31	1	NA	NA	NA	04/18/1216:07	04/18/1215:58	12PHD019S05	PHD019S	PHD019S	04/17/1209:05	04/17/12
SL-577-SA5C-SB-0.0-0.5	D155-10	8.02	1	NA	NA	NA	04/18/1216:08	04/18/1215:58	12PHD019S06	PHD019S	PHD019S	04/17/1213:30	04/17/12
SL-581-SA5C-SB-0.0-0.5	D155-11	7.26	1	NA	NA	NA	04/18/1216:11	04/18/1215:58	12PHD019S07	PHD019S	PHD019S	04/17/1214:40	04/17/12
SL-747-SA5C-SB-0.0-0.5	D155-12	7.08	1	NA	NA	NA	04/18/1216:12	04/18/1215:58	12PHD019S08	PHD019S	PHD019S	04/17/1214:05	04/17/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12D155	DATE RECEIVED:	04/17/12
SAMPLE ID:	SL-514-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	04/18/1215:58
CONTROL NO.:	D155-07D	DATE ANALYZED:	04/18/1216:02

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	7.04	7.06	-0.02	0.10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D155

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE009SB	ND	1	NA	0.100	0.0500	05/11/1217:08	05/11/1213:25	M47E010041	M47E010032	HGE009S	NA	05/11/12
LCS1S	HGE009SL	0.870	1	NA	0.100	0.0500	05/11/1217:10	05/11/1213:25	M47E010042	M47E010032	HGE009S	NA	05/11/12
LCD1S	HGE009SC	0.868	1	NA	0.100	0.0500	05/11/1217:12	05/11/1213:25	M47E010043	M47E010032	HGE009S	NA	05/11/12
SL-514-SA5C-SB-0.0-0.5AS	D155-07A	1.03	0.995	13.9	0.116	0.0578	05/11/1217:18	05/11/1213:25	M47E010046	M47E010044	HGE009S	04/17/12	04/17/12
SL-514-SA5C-SB-0.0-0.5	D155-07	ND	0.995	13.9	0.116	0.0578	05/11/1217:20	05/11/1213:25	M47E010047	M47E010044	HGE009S	04/17/12	04/17/12
SL-514-SA5C-SB-0.0-0.5DL	D155-07J	ND	4.98	13.9	0.578	0.289	05/11/1217:23	05/11/1213:25	M47E010048	M47E010044	HGE009S	04/17/12	04/17/12
SL-514-SA5C-SB-0.0-0.5MS	D155-07M	1.07	1.01	13.9	0.117	0.0587	05/11/1217:26	05/11/1213:25	M47E010049	M47E010044	HGE009S	04/17/12	04/17/12
SL-514-SA5C-SB-0.0-0.5MSDD	D155-07S	1.08	1.01	13.9	0.117	0.0587	05/11/1217:28	05/11/1213:25	M47E010050	M47E010044	HGE009S	04/17/12	04/17/12
SL-578-SA5C-SB-0.0-0.5	D155-06	ND	0.979	12.7	0.112	0.0561	05/11/1217:30	05/11/1213:25	M47E010051	M47E010044	HGE009S	04/17/12	04/17/12
SL-814-SA5C-SB-0.0-0.5	D155-08	ND	0.982	13.8	0.114	0.0570	05/11/1217:32	05/11/1213:25	M47E010052	M47E010044	HGE009S	04/17/12	04/17/12
SL-680-SA5C-SB-0.0-0.5	D155-09	ND	0.998	13.8	0.116	0.0579	05/11/1217:34	05/11/1213:25	M47E010053	M47E010044	HGE009S	04/17/12	04/17/12
SL-577-SA5C-SB-0.0-0.5	D155-10	0.0594J	1.00	14.7	0.117	0.0586	05/11/1217:36	05/11/1213:25	M47E010054	M47E010044	HGE009S	04/17/12	04/17/12
SL-581-SA5C-SB-0.0-0.5	D155-11	ND	0.997	11.6	0.113	0.0564	05/11/1217:38	05/11/1213:25	M47E010055	M47E010044	HGE009S	04/17/12	04/17/12
SL-747-SA5C-SB-0.0-0.5	D155-12	0.0810J	0.998	15.4	0.118	0.0590	05/11/1217:44	05/11/1213:25	M47E010058	M47E010056	HGE009S	04/17/12	04/17/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D155  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE009SB HGE009SL HGE009SC  
LAB FILE ID: M47E010041 M47E010042 M47E010043  
DATIME EXTRCTD: 05/11/1213:25 05/11/1213:25 05/11/1213:25 DATE COLLECTED: NA  
DATIME ANALYZD: 05/11/1217:08 05/11/1217:10 05/11/1217:12 DATE RECEIVED: 05/11/12  
PREP. BATCH: HGE009S HGE009S HGE009S  
CALIB. REF: M47E010032 M47E010032 M47E010032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.87	104	.833	.868	104	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D155  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 13.9  
DILTN FACTR: 0.995 1.01 1.01  
SAMPLE ID: SL-514-SA5C-SB-0.0-0.5  
CONTROL NO.: D155-07 D155-07M D155-07S  
LAB FILE ID: M47E010047 M47E010049 M47E010050  
DATIME EXTRCTD: 05/11/1213:25 05/11/1213:25 05/11/1213:25 DATE COLLECTED: 04/17/12  
DATIME ANALYZD: 05/11/1217:20 05/11/1217:26 05/11/1217:28 DATE RECEIVED: 04/17/12  
PREP. BATCH: HGE009S HGE009S HGE009S  
CALIB. REF: M47E010044 M47E010044 M47E010044

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.977	1.07	110	.977	1.08	110	1	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D155  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 13.9  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-514-SA5C-SB-0.0-0.5  
CONTROL NO.: D155-07 D155-07A  
LAB FILE ID: M47E010047 M47E010046  
DATIME EXTRACTD: 05/11/1213:25 05/11/1213:25 DATE COLLECTED: 04/17/12  
DATIME ANALYZD: 05/11/1217:20 05/11/1217:18 DATE RECEIVED: 04/17/12  
PREP. BATCH: HGE009S HGE009S  
CALIB. REF: M47E010044 M47E010044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.963	1.03	107	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D155  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	13.9
DILUTION FACTOR:	0.995	4.98		
SAMPLE ID:	SL-514-SA5C-SB-0.0-	SL-514-SA5C-SB-0.0-		
EMAX SAMP ID:	D155-07	D155-07J		
LAB FILE ID:	M47E010047	M47E010048		
DATE EXTRACTED:	05/11/1213:25	05/11/1213:25	DATE COLLECTED:	04/17/12
DATE ANALYZED:	05/11/1217:20	05/11/1217:23	DATE RECEIVED:	04/17/12
PREP. BATCH:	HGE009S	HGE009S		
CALIB. REF:	M47E010044	M47E010044		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/24/12 10:20
Sample ID    : SL-570-SA5C-SB-0.0-0.5          Date Analyzed: 04/25/12 05:56
Lab Samp ID  : D165-01                           Dilution Factor: 1
Lab File ID  : LD24052A                          Matrix          : SOIL
Ext Btch ID  : DSD039S                           % Moisture     : 8.5
Calib. Ref.  : LD24050A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	11	5.5	2.7
EFH(C30-C40)	22	11	5.5
TOTAL EFH(C8-C40)	33	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.7	109.3	72.9	50-150
HEXACOSANE	22.8	27.32	83.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/24/12 10:20
Sample ID:   SL-570-SA5C-SB-2.0-3.0           Date Analyzed: 04/25/12 02:32
Lab Samp ID: D165-02                           Dilution Factor: 1
Lab File ID: LD24040A                          Matrix          : SOIL
Ext Btch ID: DSD039S                           % Moisture     : 8.0
Calib. Ref.: LD24038A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.8	108.7	67.9	50-150
HEXACOSANE	21.3	27.17	78.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/24/12 10:20
Sample ID:   SL-580-SA5C-SB-0.0-0.5           Date Analyzed: 04/25/12 04:14
Lab Samp ID: D165-03                           Dilution Factor: 1
Lab File ID: LD24046A                          Matrix          : SOIL
Ext Btch ID: DSD039S                           % Moisture     : 12.7
Calib. Ref.: LD24038A                          Instrument ID  : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	3.1J	5.7	2.9
EFH(C30-C40)	9.3J	11	5.7
TOTAL EFH(C8-C40)	12	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.7	114.5	66.9	50-150
HEXACOSANE	23.0	28.64	80.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                       Date Received: 04/18/12
Batch No.    : 12D165                             Date Extracted: 04/24/12 10:20
Sample ID:   SL-580-SA5C-SB-4.0-5.0             Date Analyzed: 04/25/12 03:23
Lab Samp ID: D165-04                             Dilution Factor: 1
Lab File ID: LD24043A                           Matrix          : SOIL
Ext Btch ID: DSD039S                             % Moisture     : 10.8
Calib. Ref.: LD24038A                           Instrument ID  : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.8	112.1	70.2	50-150
HEXACOSANE	22.0	28.03	78.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/24/12 10:20
Sample ID:   SL-579-SA5C-SB-0.0-0.5            Date Analyzed: 04/25/12 04:31
Lab Samp ID: D165-05                           Dilution Factor: 1
Lab File ID: LD24047A                          Matrix          : SOIL
Ext Btch ID: DSD039S                           % Moisture     : 11.1
Calib. Ref.: LD24038A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	9.8	5.6	2.8
EFH(C30-C40)	21	11	5.6
TOTAL EFH(C8-C40)	31	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.8	112.5	69.1	50-150
HEXACOSANE	23.3	28.12	82.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/24/12 10:20
Sample ID:   SL-579-SA5C-SB-4.0-5.0           Date Analyzed: 04/25/12 03:40
Lab Samp ID: D165-06                           Dilution Factor: 1
Lab File ID: LD24044A                          Matrix          : SOIL
Ext Btch ID: DSD039S                           % Moisture     : 9.4
Calib. Ref.: LD24038A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.3	110.4	70.1	50-150
HEXACOSANE	21.6	27.59	78.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D165                           Date Extracted: 04/24/12 10:20
Sample ID    : MBLK1S                           Date Analyzed: 04/25/12 01:41
Lab Samp ID  : DSD039SB                         Dilution Factor: 1
Lab File ID  : LD24037A                        Matrix          : SOIL
Ext Btch ID  : DSD039S                         % Moisture      : NA
Calib. Ref.  : LD24026A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.8	100.0	72.8	50-150
HEXACOSANE	19.6	25.00	78.4	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D165  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSD039SB DSD039SL DSD039SC  
LAB FILE ID: LD24037A LD24035A LD24036A  
DATE EXTRACTED: 04/24/1210:20 04/24/1210:20 04/24/1210:20 DATE COLLECTED: NA  
DATE ANALYZED: 04/25/1201:41 04/25/1201:07 04/25/1201:24 DATE RECEIVED: 04/24/12  
PREP. BATCH: DSD039S DSD039S DSD039S  
CALIB. REF: LD24026A LD24026A LD24026A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	474	95	500	454	91	4	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	79.5	80	100	76.3	76	50-150
Hexacosane	25.0	20.7	83	25.0	19.9	80	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D165  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-570-SA5C-SB-2.0-3.0  
LAB SAMP ID: D165-02 D165-02M D165-02S  
LAB FILE ID: LD24040A LD24041A LD24042A  
DATE EXTRACTED: 04/24/1210:20 04/24/1210:20 04/24/1210:20 DATE COLLECTED: 04/18/12  
DATE ANALYZED: 04/25/1202:32 04/25/1202:49 04/25/1203:06 DATE RECEIVED: 04/18/12  
PREP. BATCH: DSD039S DSD039S DSD039S  
CALIB. REF: LD24038A LD24038A LD24038A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	543	475	87	543	461	85	3	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	109	77.3	71	109	74.3	68	50-150
Hexacosane	27.2	21.6	80	27.2	21.6	79	50-150

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/30/12 11:44
Sample ID    : SL-570-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 16:16
Lab Samp ID  : D165-01                          Dilution Factor: 1
Lab File ID  : REJ057                            Matrix          : SOIL
Ext Btch ID  : SVD053S                          % Moisture     : 8.5
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	3.4J	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	4.6J	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	2.9J	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	118	364.3	32.3*	40-130
2-FLUOROBIPHENYL	113	364.3	31.0*	45-130
TERPHENYL-D14	330	364.3	90.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                          Date Extracted: 04/30/12 11:44
Sample ID:   SL-570-SA5C-SB-2.0-3.0           Date Analyzed: 05/03/12 16:35
Lab Samp ID: D165-02                          Dilution Factor: 1
Lab File ID: REJ058                           Matrix          : SOIL
Ext Btch ID: SVD053S                          % Moisture     : 8.0
Calib. Ref.: RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	278	362.3	76.8	40-130
2-FLUOROBIPHENYL	214	362.3	58.9	45-130
TERPHENYL-D14	291	362.3	80.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/30/12 11:44
Sample ID:   SL-580-SA5C-SB-0.0-0.5            Date Analyzed: 05/03/12 16:54
Lab Samp ID: D165-03                            Dilution Factor: 1
Lab File ID: REJ059                             Matrix          : SOIL
Ext Btch ID: SVD053S                           % Moisture     : 12.7
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	6.1J	11	2.9
BENZO (A) ANTHRACENE	57	11	2.9
BENZO (A) PYRENE	46	11	2.9
BENZO (B) FLUORANTHENE	61	11	2.9
BENZO (K) FLUORANTHENE	22	11	2.9
BENZO (G, H, I) PERYLENE	22	11	2.9
CHRYSENE	64	11	2.9
DIBENZO (A, H) ANTHRACENE	5.9J	11	2.9
FLUORANTHENE	130	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	19	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	38	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	29	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	173	381.8	45.3	40-130
2-FLUOROBIPHENYL	141	381.8	36.9*	45-130
TERPHENYL-D14	283	381.8	74.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/30/12 11:44
Sample ID    : SL-580-SA5C-SB-4.0-5.0          Date Analyzed: 05/03/12 17:12
Lab Samp ID  : D165-04                          Dilution Factor: 1
Lab File ID  : REJ060                           Matrix          : SOIL
Ext Btch ID  : SVD053S                          % Moisture     : 10.8
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	129	373.7	34.4*	40-130
2-FLUOROBIPHENYL	93.7	373.7	25.1*	45-130
TERPHENYL-D14	144	373.7	38.5*	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/30/12 11:44
Sample ID:   SL-579-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 17:31
Lab Samp ID: D165-05                           Dilution Factor: 1
Lab File ID: REJ061                             Matrix          : SOIL
Ext Btch ID: SVD053S                            % Moisture     : 11.1
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	3.3J	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	15	11	2.8
BENZO (A) ANTHRACENE	74	11	2.8
BENZO (A) PYRENE	60	11	2.8
BENZO (B) FLUORANTHENE	83	11	2.8
BENZO (K) FLUORANTHENE	30	11	2.8
BENZO (G, H, I) PERYLENE	28	11	2.8
CHRYSENE	88	11	2.8
DIBENZO (A, H) ANTHRACENE	8.6J	11	2.8
FLUORANTHENE	210	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	25	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	100	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	39	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	126	374.9	33.7*	40-130
2-FLUOROBIPHENYL	117	374.9	31.1*	45-130
TERPHENYL-D14	278	374.9	74.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/30/12 11:44
Sample ID    : SL-579-SA5C-SB-4.0-5.0          Date Analyzed: 05/03/12 17:50
Lab Samp ID  : D165-06                           Dilution Factor: 1
Lab File ID  : REJ062                             Matrix          : SOIL
Ext Btch ID  : SVD053S                           % Moisture     : 9.4
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	4.4J	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	146	367.9	39.8*	40-130
2-FLUOROBIPHENYL	126	367.9	34.2*	45-130
TERPHENYL-D14	270	367.9	73.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 04/30/12
Batch No.    : 12D165                             Date Extracted: 04/30/12 11:44
Sample ID    : MBLK1S                             Date Analyzed: 05/03/12 11:53
Lab Samp ID  : SVD053SB                          Dilution Factor: 1
Lab File ID  : REJ043                             Matrix          : SOIL
Ext Btch ID  : SVD053S                            % Moisture     : NA
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	258	333.3	77.5	40-130
2-FLUOROBIPHENYL	242	333.3	72.6	45-130
TERPHENYL-D14	322	333.3	96.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D165  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVD053SB SVD053SL SVD053SC  
LAB FILE ID: REJ043 REJ044 REJ045  
DATE EXTRACTED: 04/30/1211:44 04/30/1211:44 04/30/1211:44 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1211:53 05/03/1212:12 05/03/1212:31 DATE RECEIVED: 04/30/12  
PREP. BATCH: SVD053S SVD053S SVD053S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	279	84	333	286	86	3	10-130	50
Acenaphthylene	ND	333	316	95	333	323	97	2	20-130	50
Anthracene	ND	333	269	81	333	284	85	5	20-130	50
Benzo (a) anthracene	ND	333	310	93	333	343	103	10	30-130	50
Benzo (a) pyrene	ND	333	343	103	333	364	109	6	30-130	50
Benzo (b) fluoranthene	ND	333	355	107	333	391	117	10	40-130	50
Benzo (k) fluoranthene	ND	333	357	107	333	365	110	2	30-140	50
Benzo (g, h, i) perylene	ND	333	370	111	333	383	115	3	30-140	50
Chrysene	ND	333	294	88	333	325	97	10	30-140	50
Dibenzo (a, h) anthracene	ND	333	375	113	333	388	116	3	40-140	50
Fluoranthene	ND	333	319	96	333	348	104	9	30-130	50
Fluorene	ND	333	318	95	333	317	95	1	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	376	113	333	389	117	3	20-160	50
Naphthalene	ND	333	253	76	333	266	80	5	10-130	50
Phenanthrene	ND	333	269	81	333	283	85	5	20-130	50
2-Methylnaphthalene	ND	333	282	85	333	292	87	3	30-150	50
1-Methylnaphthalene	ND	333	281	84	333	291	87	3	30-150	50
N-Nitrosodimethylamine	ND	333	262	79	333	303	91	15	30-150	50
Azobenzene	ND	333	262	79	333	309	93	16	30-150	50
Benzo (e) pyrene	ND	333	345	103	333	337	101	2	30-150	50
Biphenyl	ND	333	271	81	333	257	77	5	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	253	76	333	280	84	40-130
2-Fluorobiphenyl	333	242	73	333	235	70	45-130
Terphenyl-d14	333	301	90	333	306	92	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D165  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-570-SA5C-SB-2.0-3.0  
LAB SAMP ID: D165-02 D165-02M D165-02S  
LAB FILE ID: REJ058 REJ046 REJ047  
DATE EXTRACTED: 04/30/1211:44 04/30/1211:44 04/30/1211:44 DATE COLLECTED: 04/18/12  
DATE ANALYZED: 05/03/1216:35 05/03/1212:50 05/03/1213:08 DATE RECEIVED: 04/18/12  
PREP. BATCH: SVD053S SVD053S SVD053S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	362	131	36	362	149	41	13	10-130	50
Acenaphthylene	ND	362	146	40	362	168	46	14	20-130	50
Anthracene	ND	362	227	63	362	254	70	11	20-130	50
Benzo (a) anthracene	ND	362	300	83	362	339	94	12	30-130	50
Benzo (a) pyrene	ND	362	331	91	362	375	104	13	30-130	50
Benzo (b) fluoranthene	ND	362	365	101	362	413	114	12	30-130	50
Benzo (k) fluoranthene	ND	362	349	96	362	392	108	12	30-130	50
Benzo (g, h, i) perylene	ND	362	363	100	362	410	113	12	30-140	50
Chrysene	ND	362	285	79	362	322	89	12	20-130	50
Dibenzo (a, h) anthracene	ND	362	368	102	362	416	115	12	30-130	50
Fluoranthene	ND	362	312	86	362	362	100	15	30-150	50
Fluorene	ND	362	171	47	362	188	52	10	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	362	367	101	362	417	115	13	20-160	50
Naphthalene	ND	362	111	31	362	105	29	6	10-130	50
Phenanthrene	ND	362	234	64	362	257	71	10	20-130	50
2-Methylnaphthalene	ND	362	127	35	362	140	39	9	30-150	50
1-Methylnaphthalene	ND	362	128	35	362	141	39	10	30-150	50
N-Nitrosodimethylamine	ND	362	145	40	362	151	42	4	20-150	50
Azobenzene	ND	362	175	48	362	178	49	2	30-150	50
Benzo (e) pyrene	ND	362	327	90	362	313	87	4	30-150	50
Biphenyl	ND	362	108	30	362	108	30	0	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	362	129	36*	362	123	34*	40-130
2-Fluorobiphenyl	362	105	29*	362	105	29*	45-130
Terphenyl-d14	362	275	76	362	272	75	45-135

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/27/12 14:56
Sample ID    : SL-570-SA5C-SB-0.0-0.5          Date Analyzed: 05/01/12 02:57
Lab Samp ID  : D165-01                           Dilution Factor: 1
Lab File ID  : KD30023A                         Matrix          : SOIL
Ext Btch ID  : CPD068S                          % Moisture     : 8.5
Calib. Ref.  : KD30017A                         Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.25)   10.81	14.57	(105)   74.2	45-120
TETRACHLORO-M-XYLENE	(14.61)   11.25	14.57	(100)   77.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/27/12 14:56
Sample ID    : SL-570-SA5C-SB-2.0-3.0          Date Analyzed: 05/01/12 03:50
Lab Samp ID  : D165-02                         Dilution Factor: 1
Lab File ID  : KD30024A                       Matrix          : SOIL
Ext Btch ID  : CPD068S                        % Moisture     : 8.0
Calib. Ref.  : KD30017A                       Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.37)   10.50	14.49	(99.2)   72.5	45-120
TETRACHLORO-M-XYLENE	(12.49)   10.49	14.49	(86.2)   72.4	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/27/12 14:56
Sample ID    : SL-580-SA5C-SB-0.0-0.5          Date Analyzed: 05/01/12 04:43
Lab Samp ID  : D165-03                           Dilution Factor: 1
Lab File ID  : KD30025A                          Matrix          : SOIL
Ext Btch ID  : CPD068S                           % Moisture     : 12.7
Calib. Ref.  : KD30017A                          Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(240)   200	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	35J   (46)	46	23   23	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(15.39)   10.94	15.27	(101)   71.7	45-120
TETRACHLORO-M-XYLENE	(13.99)   11.62	15.27	(91.6)   76.1	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/27/12 14:56
Sample ID    : SL-580-SA5C-SB-4.0-5.0          Date Analyzed: 05/01/12 05:36
Lab Samp ID  : D165-04                           Dilution Factor: 1
Lab File ID  : KD30026A                          Matrix          : SOIL
Ext Btch ID  : CPD068S                            % Moisture     : 10.8
Calib. Ref.  : KD30017A                          Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(15.37)   11.42	14.94	(103)   76.4	45-120
TETRACHLORO-M-XYLENE	(13.32)   9.592	14.94	(89.1)   64.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/27/12 14:56
Sample ID    : SL-579-SA5C-SB-0.0-0.5          Date Analyzed: 05/01/12 06:29
Lab Samp ID  : D165-05                           Dilution Factor: 1
Lab File ID  : KD30027A                         Matrix          : SOIL
Ext Btch ID  : CPD068S                          % Moisture     : 11.1
Calib. Ref.  : KD30017A                         Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(290)   230	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	32J   (48)	45	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.04)   11.30	14.99	(107)   75.4	45-120
TETRACHLORO-M-XYLENE	(15.46)   11.91	14.99	(103)   79.5	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/18/12
Project      : SSFL PHASE 3                     Date Received: 04/18/12
Batch No.    : 12D165                           Date Extracted: 04/27/12 14:56
Sample ID    : SL-579-SA5C-SB-4.0-5.0          Date Analyzed: 05/01/12 07:22
Lab Samp ID  : D165-06                          Dilution Factor: 1
Lab File ID  : KD30028A                        Matrix          : SOIL
Ext Btch ID  : CPD068S                         % Moisture     : 9.4
Calib. Ref.  : KD30017A                       Instrument ID   : GCT071
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	37   (40)	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.45)   11.29	14.71	(105)   76.7	45-120
TETRACHLORO-M-XYLENE	(14.20)   11.73	14.71	(96.5)   79.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/27/12
Batch No.    : 12D165                           Date Extracted: 04/27/12 14:56
Sample ID    : MBLK1S                           Date Analyzed: 04/30/12 11:54
Lab Samp ID  : 60D068SB                         Dilution Factor: 1
Lab File ID  : KD30006A                         Matrix          : SOIL
Ext Btch ID  : CPD068S                          % Moisture     : NA
Calib. Ref.  : KD30002A                         Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(15.50)   11.48	13.33	(116)   86.1	45-120
TETRACHLORO-M-XYLENE	(15.12)   12.09	13.33	(113)   90.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D165  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60D068SB 60D068SL 60D068SC  
LAB FILE ID: KD30006A KD30007A KD30008A  
DATE EXTRACTED: 04/27/1214:56 04/27/1214:56 04/27/1214:56 DATE COLLECTED: NA  
DATE ANALYZED: 04/30/1211:54 04/30/1212:48 04/30/1213:40 DATE RECEIVED: 04/27/12  
PREP. BATCH: CPD068S CPD068S CPD068S  
CALIB. REF: KD30002A KD30002A KD30002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(174)   140	(104)   84	167	(166)   137	(100)   82	(5)   2	50-130	50
Aroclor 1260	(ND)   ND	167	(189)   189	(113)   113	167	(183)   182	(110)   109	(3)   4	60-150	50
Aroclor 5460	(ND)   ND	83.3	86.5   (90.5)	104   (109)	83.3	83.2   (86.0)	100   (103)	4   (5)	50-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(15.07)   11.31	(113)   84.8	13.33	(14.88)   11.03	(112)   82.7	45-120
Tetrachloro-m-xylene	13.33	(15.64)   11.52	(117)   86.4	13.33	(15.01)   11.52	(113)   86.4	10-160

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/18/12
Project     : SSFL PHASE 3                     Date Received: 04/18/12
SDG NO.    : 12D165                           Date Extracted: 04/26/12 10:12
Sample ID:  SL-570-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 19:30 # 05/01/12 17:39
Lab Samp ID: D165-01 #D165-01W              Dilution Factor: 0.957
Lab File ID: 98D21088 #98E01032             Matrix          : SOIL
Ext Btch ID: IMD040S                        % Moisture      : 8.5
Calib. Ref.: 98D21085 #98E01029             Instrument ID   : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10800	105	12.6
Antimony	0.192J	0.523	0.105
Arsenic	6.51	0.523	0.209
Barium	101	0.523	0.209
Beryllium	0.553	0.523	0.0523
Boron	ND	5.23	2.61
Cadmium	0.250J	0.523	0.0523
Calcium	2540	20.9	10.5
Chromium	15.1	0.523	0.209
Cobalt	9.60	0.523	0.0523
Copper	6.92	0.523	0.209
Iron	18100	105	10.5
Lead	9.12	0.523	0.105
Magnesium	3490	10.5	5.23
Manganese	468	0.523	0.261
Molybdenum	0.582	0.523	0.0523
Nickel	11.4	0.523	0.209
Potassium	1770	105	31.4
Selenium	ND	0.523	0.209
Silver	ND	0.523	0.0523
Sodium	63.4J	105	52.3
# Strontium	15.0	0.523	0.261
Thallium	0.206J	0.418	0.0523
Tin	ND	10.5	5.23
Titanium	708	1.05	0.523
Vanadium	35.4	0.523	0.0523
Zinc	53.8	5.23	1.57
Lithium	18.1	2.09	1.05
Phosphorus	291	12.6	6.28
Zirconium	ND	5.23	2.61

# Members of the Associated File

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/18/12
Project    : SSFL PHASE 3                     Date Received: 04/18/12
SDG NO.    : 12D165                           Date Extracted: 04/26/12 10:12
Sample ID: SL-570-SA5C-SB-2.0-3.0           Date Analyzed: 04/30/12 19:35 # 05/01/12 17:44
Lab Samp ID: D165-02 #D165-02W              Dilution Factor: 0.995
Lab File ID: 98D21089 #98E01033             Matrix          : SOIL
Ext Btch ID: IMD040S                        % Moisture      : 8.0
Calib. Ref.: 98D21085 #98E01029             Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9980	108	13.0
Antimony	0.179J	0.541	0.108
Arsenic	8.80	0.541	0.216
Barium	83.5	0.541	0.216
Beryllium	0.397J	0.541	0.0541
Boron	ND	5.41	2.70
Cadmium	0.150J	0.541	0.0541
Calcium	3040	21.6	10.8
Chromium	17.5	0.541	0.216
Cobalt	5.58	0.541	0.0541
Copper	6.93	0.541	0.216
Iron	18400	108	10.8
Lead	4.11	0.541	0.108
Magnesium	4810	10.8	5.41
Manganese	249	0.541	0.270
Molybdenum	0.320J	0.541	0.0541
Nickel	13.5	0.541	0.216
Potassium	1880	108	32.4
Selenium	ND	0.541	0.216
Silver	ND	0.541	0.0541
Sodium	73.1J	108	54.1
# Strontium	18.2	0.541	0.270
Thallium	0.213J	0.433	0.0541
Tin	ND	10.8	5.41
Titanium	926	1.08	0.541
Vanadium	32.7	0.541	0.0541
Zinc	54.6	5.41	1.62
Lithium	24.7	2.16	1.08
Phosphorus	382	13.0	6.49
Zirconium	ND	5.41	2.70

# Members of the Associated File

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/18/12
Project     : SSFL PHASE 3                     Date Received: 04/18/12
SDG NO.    : 12D165                             Date Extracted: 04/26/12 10:12
Sample ID:  SL-580-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 19:39 # 05/01/12 17:48
Lab Samp ID: D165-03 #D165-03W              Dilution Factor: 0.990
Lab File ID: 98D21090 #98E01034             Matrix          : SOIL
Ext Btch ID: IMD040S                         % Moisture      : 12.7
Calib. Ref.: 98D21085 #98E01029             Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13500	113	13.6
Antimony	0.308J	0.567	0.113
Arsenic	4.76	0.567	0.227
Barium	121	0.567	0.227
Beryllium	0.586	0.567	0.0567
Boron	ND	5.67	2.84
Cadmium	0.293J	0.567	0.0567
Calcium	3290	22.7	11.3
Chromium	17.3	0.567	0.227
Cobalt	6.14	0.567	0.0567
Copper	10.3	0.567	0.227
Iron	17900	113	11.3
Lead	9.71	0.567	0.113
Magnesium	3430	11.3	5.67
Manganese	304	0.567	0.284
Molybdenum	0.559J	0.567	0.0567
Nickel	11.2	0.567	0.227
Potassium	2880	113	34.0
Selenium	ND	0.567	0.227
Silver	ND	0.567	0.0567
Sodium	81.3J	113	56.7
# Strontium	24.7	0.567	0.284
Thallium	0.245J	0.454	0.0567
Tin	ND	11.3	5.67
Titanium	814	1.13	0.567
Vanadium	35.6	0.567	0.0567
Zinc	46.0	5.67	1.70
Lithium	13.9	2.27	1.13
Phosphorus	248	13.6	6.80
Zirconium	ND	5.67	2.84

# Members of the Associated File

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/18/12
Project     : SSFL PHASE 3                     Date Received: 04/18/12
SDG NO.    : 12D165                           Date Extracted: 04/26/12 10:12
Sample ID:  SL-580-SA5C-SB-4.0-5.0           Date Analyzed: 04/30/12 19:44 # 05/01/12 17:53
Lab Samp ID: D165-04 #D165-04W              Dilution Factor: 1.00
Lab File ID: 98D21091 #98E01035             Matrix          : SOIL
Ext Btch ID: IMD040S                        % Moisture     : 10.8
Calib. Ref.: 98D21085 #98E01029             Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13300	112	13.5
Antimony	0.126J	0.561	0.112
Arsenic	3.20	0.561	0.224
Barium	153	0.561	0.224
Beryllium	0.728	0.561	0.0561
Boron	3.04J	5.61	2.80
Cadmium	0.337J	0.561	0.0561
Calcium	105000	22.4	11.2
Chromium	17.6	0.561	0.224
Cobalt	6.44	0.561	0.0561
Copper	5.99	0.561	0.224
Iron	19200	112	11.2
Lead	4.82	0.561	0.112
Magnesium	4020	11.2	5.61
Manganese	517	0.561	0.280
Molybdenum	0.105J	0.561	0.0561
Nickel	19.0	0.561	0.224
Potassium	1050	112	33.6
Selenium	ND	0.561	0.224
Silver	0.0631J	0.561	0.0561
Sodium	412	112	56.1
# Strontium	136	0.561	0.280
Thallium	0.183J	0.448	0.0561
Tin	ND	11.2	5.61
Titanium	651	1.12	0.561
Vanadium	31.0	0.561	0.0561
Zinc	38.5	5.61	1.68
Lithium	23.7	2.24	1.12
Phosphorus	135	13.5	6.73
Zirconium	ND	5.61	2.80

# Members of the Associated File

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/18/12
Project    : SSFL PHASE 3                     Date Received: 04/18/12
SDG NO.    : 12D165                           Date Extracted: 04/26/12 10:12
Sample ID: SL-579-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 19:48 # 05/01/12 17:57
Lab Samp ID: D165-05 #D165-05W              Dilution Factor: 0.976
Lab File ID: 98D21092 #98E01036             Matrix          : SOIL
Ext Btch ID: IMD040S                         % Moisture      : 11.1
Calib. Ref.: 98D21085 #98E01029             Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13800	110	13.2
Antimony	0.261J	0.549	0.110
Arsenic	5.87	0.549	0.220
Barium	126	0.549	0.220
Beryllium	0.694	0.549	0.0549
Boron	ND	5.49	2.74
Cadmium	0.296J	0.549	0.0549
Calcium	3340	22.0	11.0
Chromium	19.9	0.549	0.220
Cobalt	6.46	0.549	0.0549
Copper	9.95	0.549	0.220
Iron	19800	110	11.0
Lead	9.51	0.549	0.110
Magnesium	3580	11.0	5.49
Manganese	304	0.549	0.274
Molybdenum	0.603	0.549	0.0549
Nickel	12.5	0.549	0.220
Potassium	3240	110	32.9
Selenium	ND	0.549	0.220
Silver	ND	0.549	0.0549
Sodium	66.8J	110	54.9
# Strontium	23.0	0.549	0.274
Thallium	0.248J	0.439	0.0549
Tin	ND	11.0	5.49
Titanium	822	1.10	0.549
Vanadium	38.7	0.549	0.0549
Zinc	53.6	5.49	1.65
Lithium	17.2	2.20	1.10
Phosphorus	270	13.2	6.59
Zirconium	ND	5.49	2.74

# Members of the Associated File

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/18/12
Project     : SSFL PHASE 3                     Date Received: 04/18/12
SDG NO.    : 12D165                           Date Extracted: 04/26/12 10:12
Sample ID:  SL-579-SA5C-SB-4.0-5.0           Date Analyzed: 04/30/12 19:53 # 05/01/12 18:02
Lab Samp ID: D165-06 #D165-06W              Dilution Factor: 0.976
Lab File ID: 98D21093 #98E01037             Matrix          : SOIL
Ext Btch ID: IMD040S                        % Moisture     : 9.4
Calib. Ref.: 98D21085 #98E01029            Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15500	108	12.9
Antimony	0.169J	0.539	0.108
Arsenic	4.24	0.539	0.215
Barium	126	0.539	0.215
Beryllium	0.782	0.539	0.0539
Boron	ND	5.39	2.69
Cadmium	0.231J	0.539	0.0539
Calcium	3010	21.5	10.8
Chromium	20.1	0.539	0.215
Cobalt	7.54	0.539	0.0539
Copper	8.06	0.539	0.215
Iron	19100	108	10.8
Lead	8.01	0.539	0.108
Magnesium	3300	10.8	5.39
Manganese	354	0.539	0.269
Molybdenum	0.464J	0.539	0.0539
Nickel	11.6	0.539	0.215
Potassium	1920	108	32.3
Selenium	ND	0.539	0.215
Silver	ND	0.539	0.0539
Sodium	74.1J	108	53.9
# Strontium	26.7	0.539	0.269
Thallium	0.261J	0.431	0.0539
Tin	ND	10.8	5.39
Titanium	694	1.08	0.539
Vanadium	38.2	0.539	0.0539
Zinc	39.6	5.39	1.62
Lithium	14.8	2.15	1.08
Phosphorus	122	12.9	6.46
Zirconium	ND	5.39	2.69

# Members of the Associated File

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/26/12
SDG NO.     : 12D165                           Date Extracted: 04/26/12 10:12
Sample ID   : MBLK1S                           Date Analyzed: 04/30/12 18:31
Lab Samp ID : IMD040SB                         Dilution Factor: 1
Lab File ID : 98D21075                        Matrix          : SOIL
Ext Btch ID : IMD040S                          % Moisture     : NA
Calib. Ref. : 98D21073                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
#Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

#: Analyzed at DF 1 on 05/01/12 16:40 | File ID 98E01019

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D165  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMD040SB IMD040SL IMD040SC  
LAB FILE ID: 98D21075 98D21076 98D21077  
DATIME EXTRACTD: 04/26/1210:12 04/26/1210:12 04/26/1210:12 DATE COLLECTED: NA  
DATIME ANALYZD: 04/30/1218:31 04/30/1218:36 04/30/1218:40 DATE RECEIVED: 04/26/12  
PREP. BATCH: IMD040S IMD040S IMD040S  
CALIB. REF: 98D21073 98D21073 98D21073

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2590	104	2500	2580	103	0	80-120	20
Antimony	ND	25.0	26.2	105	25.0	26.4	106	1	80-120	20
Arsenic	ND	25.0	25.1	101	25.0	25.6	102	2	80-120	20
Barium	ND	25.0	25.5	102	25.0	25.6	102	0	80-120	20
Beryllium	ND	25.0	25.4	101	25.0	25.0	100	2	80-120	20
Boron	ND	25.0	26.2	105	25.0	25.8	103	2	80-120	20
Cadmium	ND	25.0	24.9	100	25.0	25.2	101	1	80-120	20
Calcium	ND	2500	2650	106	2500	2700	108	2	80-120	20
Chromium	ND	25.0	24.2	97	25.0	24.3	97	0	80-120	20
Cobalt	ND	25.0	24.6	98	25.0	24.4	98	1	80-120	20
Copper	ND	25.0	23.4	94	25.0	23.4	94	0	80-120	20
Iron	ND	2500	2560	102	2500	2590	104	1	80-120	20
Lead	ND	25.0	24.7	99	25.0	25.4	102	3	80-120	20
Magnesium	ND	2500	2570	103	2500	2540	102	1	80-120	20
Manganese	ND	25.0	25.3	101	25.0	25.1	101	0	80-120	20
Molybdenum	ND	25.0	25.7	103	25.0	25.8	103	0	80-120	20
Nickel	ND	25.0	23.5	94	25.0	23.4	94	0	80-120	20
Potassium	ND	2500	2750	110	2500	2770	111	1	80-120	20
Selenium	ND	25.0	24.8	99	25.0	25.1	101	1	80-120	20
Silver	ND	25.0	25.3	101	25.0	25.7	103	2	80-120	20
Sodium	ND	2500	2610	105	2500	2660	106	2	80-120	20
#Strontium	ND	25.0	25.4	102	25.0	25.6	102	0	80-120	20
Thallium	ND	25.0	25.5	102	25.0	25.9	103	1	80-120	20
Tin	ND	25.0	28.3	113	25.0	28.6	114	1	80-120	20
Titanium	ND	25.0	26.1	104	25.0	26.3	105	1	80-120	20
Vanadium	ND	25.0	24.9	100	25.0	25.2	101	1	80-120	20
Zinc	ND	50.0	50.4	101	50.0	50.3	101	0	80-120	20
Lithium	ND	25.0	25.9	104	25.0	25.7	103	1	80-120	20
Phosphorus	ND	250	255	102	250	257	103	1	80-120	20
Zirconium	ND	25.0	26.2	105	25.0	26.2	105	0	80-120	20

#: IMD040SL/C: Analyzed at DF 1 on 05/01/12 16:45:16:49 | File ID 98E01020/021

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D165  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 15.1  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-201-NBZ-SS-0.0-0.5  
CONTROL NO.: D197-03 D197-03A  
LAB FILE ID: 98D21081 98D21080  
DATIME EXTRACTD: 04/26/1210:12 04/26/1210:12 DATE COLLECTED: 04/23/12  
DATIME ANALYZD: 04/30/1218:58 04/30/1218:54 DATE RECEIVED: 04/23/12  
PREP. BATCH: IMD040S IMD040S  
CALIB. REF: 98D21073 98D21073

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	14700	2930	17400	93	75-125
Antimony	0.438J	29.3	30.9	104	75-125
Arsenic	4.70	29.3	33.0	97	75-125
Barium	96.6	29.3	127	102	75-125
Beryllium	0.594	29.3	29.2	98	75-125
Boron	ND	29.3	31.3	107	75-125
Cadmium	0.395J	29.3	29.1	98	75-125
Calcium	2940	2930	5850	99	75-125
Chromium	17.0	29.3	42.7	88	75-125
Cobalt	5.72	29.3	31.6	88	75-125
Copper	8.05	29.3	32.5	83	75-125
Iron	19800	2930	22200	79	75-125
Lead	28.6	29.3	56.4	95	75-125
Magnesium	4210	2930	6990	95	75-125
Manganese	255	29.3	277	73*	75-125
Molybdenum	0.834	29.3	30.7	102	75-125
Nickel	10.3	29.3	35.0	84	75-125
Potassium	2760	2930	5730	101	75-125
Selenium	ND	29.3	28.9	98	75-125
Silver	0.465J	29.3	29.3	99	75-125
Sodium	ND	2930	2900	99	75-125
#Strontium	18.8	29.3	47.1	97	75-125
Thallium	0.226J	29.3	29.4	99	75-125
Tin	ND	29.3	33.8	115	75-125
Titanium	967	29.3	977	32*	75-125
Vanadium	35.2	29.3	62.0	92	75-125
Zinc	77.9	58.6	136	100	75-125
Lithium	19.2	29.3	48.6	100	75-125
Phosphorus	254	293	559	104	75-125
Zirconium	ND	29.3	29.4	100	75-125

# D197-03A: Analyzed at DF 0.995 on 05/01/12 17:03 | File ID 98E01024

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D165  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 15.1  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-201-NBZ-SS- SL-201-NBZ-SS-  
 EMAX SAMP ID: D197-03 D197-03J  
 LAB FILE ID: 98D21081 98D21082  
 DATE EXTRACTED: 04/26/1210:12 04/26/1210:12 DATE COLLECTED: 04/23/12  
 DATE ANALYZED: 04/30/1218:58 04/30/1219:03 DATE RECEIVED: 04/23/12  
 PREP. BATCH: IMD040S IMD040S  
 CALIB. REF: 98D21073 98D21073

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	14700	15100	3	10
Antimony	0.438J	ND	NA	10
Arsenic	4.70	4.82	3	10
Barium	96.6	92.1	5	10
Beryllium	0.594	0.607J	NA	10
Boron	ND	ND	0	10
Cadmium	0.395J	0.378J	NA	10
Calcium	2940	3070	4	10
Chromium	17.0	17.4	2	10
Cobalt	5.72	5.92	4	10
Copper	8.05	8.58	7	10
Iron	19800	20500	3	10
Lead	28.6	28.2	1	10
Magnesium	4210	4300	2	10
Manganese	255	269	5	10
Molybdenum	0.834	0.809J	NA	10
Nickel	10.3	10.6	2	10
Potassium	2760	2780	1	10
Selenium	ND	ND	0	10
Silver	0.465J	0.459J	NA	10
Sodium	ND	ND	0	10
#Strontium	18.8	18.1	4	10
Thallium	0.226J	ND	NA	10
Tin	ND	ND	0	10
Titanium	967	982	1	10
Vanadium	35.2	36.0	2	10
Zinc	77.9	79.8	2	10
Lithium	19.2	17.9	7	10
Phosphorus	254	268	5	10
Zirconium	ND	ND	0	10

# D197-03J: Analyzed at DF 4.98 on 05/01/12 17:12 | File ID 98E01026

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D165  
=====

Matrix : SOIL  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLD004SB	ND	1	NA	5.00	2.50	04/24/1215:06	04/23/1215:50	ND24004	ND24003	PLD004S	NA	04/23/12
LCS1S	PLD004SL	24.9	1	NA	5.00	2.50	04/24/1215:20	04/23/1215:50	ND24005	ND24003	PLD004S	NA	04/23/12
LCD1S	PLD004SC	25.6	1	NA	5.00	2.50	04/24/1215:35	04/23/1215:50	ND24006	ND24003	PLD004S	NA	04/23/12
SL-570-SA5C-SB-0.0-0.5	D165-01	ND	1	8.5	5.46	2.73	04/24/1217:42	04/23/1215:50	ND24015	ND24014	PLD004S	04/18/1209:00	04/18/12
SL-570-SA5C-SB-2.0-3.0	D165-02	ND	1	8.0	5.43	2.72	04/24/1217:57	04/23/1215:50	ND24016	ND24014	PLD004S	04/18/1210:30	04/18/12
SL-580-SA5C-SB-0.0-0.5	D165-03	ND	1	12.7	5.73	2.86	04/24/1218:11	04/23/1215:50	ND24017	ND24014	PLD004S	04/18/1211:00	04/18/12
SL-580-SA5C-SB-4.0-5.0	D165-04	ND	1	10.8	5.61	2.80	04/24/1218:25	04/23/1215:50	ND24018	ND24014	PLD004S	04/18/1211:30	04/18/12
SL-579-SA5C-SB-0.0-0.5	D165-05	ND	1	11.1	5.62	2.81	04/24/1218:39	04/23/1215:50	ND24019	ND24014	PLD004S	04/18/1214:04	04/18/12
SL-579-SA5C-SB-4.0-5.0	D165-06	ND	1	9.4	5.52	2.76	04/24/1218:53	04/23/1215:50	ND24020	ND24014	PLD004S	04/18/1214:30	04/18/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D165  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLD004SB PLD004SL PLD004SC  
LAB FILE ID: ND24004 ND24005 ND24006  
DATE EXTRACTED: 04/23/1215:50 04/23/1215:50 04/23/1215:50 DATE COLLECTED: NA  
DATE ANALYZED: 04/24/1215:06 04/24/1215:20 04/24/1215:35 DATE RECEIVED: 04/23/12  
PREP. BATCH: PLD004S PLD004S PLD004S  
CALIB. REF: ND24003 ND24003 ND24003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	24.9	100	25.0	25.6	102	3	85-115	20

METHOD 7199  
HEXAVALENT CHROMIUM

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D165

Matrix : SOIL  
Instrument ID : I59

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCD012SB	ND	1	NA	1.00	0.500	04/25/1215:02	04/24/1216:57	ID25003	ID25001	HCD012S	NA	04/24/12
MBLK1S	HCD012SQ	ND	1	NA	1.00	0.500	04/25/1215:13	04/24/1216:57	ID25004	ID25001	HCD012S	NA	04/24/12
LCS1S	CSD012SL	8.77	1	NA	1.00	0.500	04/25/1219:18	04/24/1216:57	ID25023	ID25013	HCD012S	NA	04/24/12
LCS1S	CSD012SX	8.57	1	NA	1.00	0.500	04/25/1219:28	04/24/1216:57	ID25024	ID25013	HCD012S	NA	04/24/12
LCS2S	CID012SL	337	20	NA	20.0	10.0	04/25/1215:44	04/24/1216:57	ID25007	ID25001	HCD012S	NA	04/24/12
LCS2S	CID012SX	341	20	NA	20.0	10.0	04/25/1215:55	04/24/1216:57	ID25008	ID25001	HCD012S	NA	04/24/12
SL-580-SA5C-SB-0.0-0.5	D165-03	ND	1	12.7	1.15	0.573	04/25/1218:36	04/24/1216:57	ID25019	ID25013	HCD012S	04/18/1211:00	04/18/12
SL-580-SA5C-SB-0.0-0.5	D165-03R	ND	1	12.7	1.15	0.573	04/25/1218:46	04/24/1216:57	ID25020	ID25013	HCD012S	04/18/1211:00	04/18/12
SL-580-SA5C-SB-4.0-5.0	D165-04	ND	1	10.8	1.12	0.561	04/25/1218:57	04/24/1216:57	ID25021	ID25013	HCD012S	04/18/1211:30	04/18/12
SL-580-SA5C-SB-4.0-5.0	D165-04R	ND	1	10.8	1.12	0.561	04/25/1219:07	04/24/1216:57	ID25022	ID25013	HCD012S	04/18/1211:30	04/18/12
SL-579-SA5C-SB-4.0-5.0	D165-06	ND	1	9.4	1.10	0.552	04/25/1220:10	04/24/1216:57	ID25027	ID25025	HCD012S	04/18/1214:30	04/18/12
SL-579-SA5C-SB-4.0-5.0	D165-06R	ND	1	9.4	1.10	0.552	04/25/1220:20	04/24/1216:57	ID25028	ID25025	HCD012S	04/18/1214:30	04/18/12
SL-579-SA5C-SB-0.0-0.5	D165-05	ND	1	11.1	1.12	0.562	04/26/1202:55	04/24/1216:57	ID25063	ID25061	HCD012S	04/18/1214:04	04/18/12
SL-579-SA5C-SB-0.0-0.5	D165-05R	ND	1	11.1	1.12	0.562	04/26/1203:06	04/24/1216:57	ID25064	ID25061	HCD012S	04/18/1214:04	04/18/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D165  
METHOD: 7199

=====

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	20		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	HCD012SQ	CID012SX		
LAB FILE ID:	ID25004	ID25008		
DATE EXTRACTED:	04/24/1216:57	04/24/1216:57	DATE COLLECTED:	NA
DATE ANALYZED:	04/25/1215:13	04/25/1215:55	DATE RECEIVED:	04/24/12
PREP. BATCH:	HCD012S	HCD012S		
CALIB. REF:	ID25001	ID25001		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
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Hexavalent Chromium	ND	374	341	91	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D165  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCD012SQ CSD012SX  
LAB FILE ID: ID25004 ID25024  
DATE EXTRACTED: 04/24/1216:57 04/24/1216:57 DATE COLLECTED: NA  
DATE ANALYZED: 04/25/1215:13 04/25/1219:28 DATE RECEIVED: 04/24/12  
PREP. BATCH: HCD012S HCD012S  
CALIB. REF: ID25001 ID25013

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.57	86	80-120

## METHOD 9045D

PH

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12D165  
 =====

Matrix : SOIL  
 Instrument ID : 53  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLP		RL	MDL	Analysis	Extraction	LFID	CAL REF	PREP BATCH	Collection	Received
			MOIST	(pH Unit)	(pH Unit)		DATETIME	DATETIME				DATETIME	DATETIME
SL-570-SA5C-SB-0.0-0.5	D165-01	7.91	1	NA	NA	NA	04/19/1217:32	04/19/1217:32	12PHD021S01	PHD021S	PHD021S	04/18/1209:00	04/18/12
SL-570-SA5C-SB-0.0-0.5	DUPD165-01D	7.88	1	NA	NA	NA	04/19/1217:35	04/19/1217:32	12PHD021S02	PHD021S	PHD021S	04/18/1209:00	04/18/12
SL-570-SA5C-SB-2.0-3.0	D165-02	7.86	1	NA	NA	NA	04/19/1217:36	04/19/1217:32	12PHD021S03	PHD021S	PHD021S	04/18/1210:30	04/18/12
SL-580-SA5C-SB-0.0-0.5	D165-03	7.62	1	NA	NA	NA	04/19/1217:38	04/19/1217:32	12PHD021S04	PHD021S	PHD021S	04/18/1211:00	04/18/12
SL-580-SA5C-SB-4.0-5.0	D165-04	8.81	1	NA	NA	NA	04/19/1217:40	04/19/1217:32	12PHD021S05	PHD021S	PHD021S	04/18/1211:30	04/18/12
SL-579-SA5C-SB-0.0-0.5	D165-05	7.80	1	NA	NA	NA	04/19/1217:42	04/19/1217:32	12PHD021S06	PHD021S	PHD021S	04/18/1214:04	04/18/12
SL-579-SA5C-SB-4.0-5.0	D165-06	7.49	1	NA	NA	NA	04/19/1217:42	04/19/1217:32	12PHD021S07	PHD021S	PHD021S	04/18/1214:30	04/18/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12D165	DATE RECEIVED:	04/18/12
SAMPLE ID:	SL-570-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	04/19/1217:32
CONTROL NO.:	D165-01D	DATE ANALYZED:	04/19/1217:35

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	7.91	7.88	0.03	0.10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D165

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE008SB	ND	1	NA	0.100	0.0500	05/11/1215:58	05/11/1213:00	M47E010010	M47E010008	HGE008S	NA	05/11/12
LCS1S	HGE008SL	0.887	1	NA	0.100	0.0500	05/11/1216:00	05/11/1213:00	M47E010011	M47E010008	HGE008S	NA	05/11/12
LCD1S	HGE008SC	0.875	1	NA	0.100	0.0500	05/11/1216:02	05/11/1213:00	M47E010012	M47E010008	HGE008S	NA	05/11/12
SL-570-SA5C-SB-0.0-0.5	D165-01	ND	0.977	8.5	0.107	0.0534	05/11/1216:56	05/11/1213:00	M47E010036	M47E010032	HGE008S	04/18/12	04/18/12
SL-570-SA5C-SB-2.0-3.0	D165-02	ND	0.998	8.0	0.108	0.0542	05/11/1216:58	05/11/1213:00	M47E010037	M47E010032	HGE008S	04/18/12	04/18/12
SL-580-SA5C-SB-0.0-0.5	D165-03	ND	1.00	12.7	0.115	0.0573	05/11/1217:00	05/11/1213:00	M47E010038	M47E010032	HGE008S	04/18/12	04/18/12
SL-580-SA5C-SB-4.0-5.0	D165-04	ND	0.990	10.8	0.111	0.0555	05/11/1217:03	05/11/1213:00	M47E010039	M47E010032	HGE008S	04/18/12	04/18/12
SL-579-SA5C-SB-0.0-0.5	D165-05	ND	1.00	11.1	0.112	0.0562	05/11/1217:06	05/11/1213:00	M47E010040	M47E010032	HGE008S	04/18/12	04/18/12
MBLK2S	HGE009SB	ND	1	NA	0.100	0.0500	05/11/1217:08	05/11/1213:25	M47E010041	M47E010032	HGE009S	NA	05/11/12
LCS2S	HGE009SL	0.870	1	NA	0.100	0.0500	05/11/1217:10	05/11/1213:25	M47E010042	M47E010032	HGE009S	NA	05/11/12
LCD2S	HGE009SC	0.868	1	NA	0.100	0.0500	05/11/1217:12	05/11/1213:25	M47E010043	M47E010032	HGE009S	NA	05/11/12
SL-579-SA5C-SB-4.0-5.0	D165-06	ND	1.00	9.4	0.110	0.0552	05/11/1218:05	05/11/1213:25	M47E010067	M47E010056	HGE009S	04/18/12	04/18/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D165  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE008SB HGE008SL HGE008SC  
LAB FILE ID: M47E010010 M47E010011 M47E010012  
DATIME EXTRCTD: 05/11/1213:00 05/11/1213:00 05/11/1213:00 DATE COLLECTED: NA  
DATIME ANALYZD: 05/11/1215:58 05/11/1216:00 05/11/1216:02 DATE RECEIVED: 05/11/12  
PREP. BATCH: HGE008S HGE008S HGE008S  
CALIB. REF: M47E010008 M47E010008 M47E010008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.887	106	.833	.875	105	1	85-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D165  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK2S  
CONTROL NO.: HGE009SB HGE009SL HGE009SC  
LAB FILE ID: M47E010041 M47E010042 M47E010043  
DATIME EXTRCTD: 05/11/1213:25 05/11/1213:25 05/11/1213:25 DATE COLLECTED: NA  
DATIME ANALYZD: 05/11/1217:08 05/11/1217:10 05/11/1217:12 DATE RECEIVED: 05/11/12  
PREP. BATCH: HGE009S HGE009S HGE009S  
CALIB. REF: M47E010032 M47E010032 M47E010032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.87	104	.833	.868	104	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D165  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.9  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-691-SA5C-SB-0.0-0.5  
CONTROL NO.: D147-01 D147-01A  
LAB FILE ID: M47E010014 M47E010013  
DATIME EXTRACTD: 05/11/1213:00 05/11/1213:00 DATE COLLECTED: 04/16/12  
DATIME ANALYZD: 05/11/1216:06 05/11/1216:04 DATE RECEIVED: 04/16/12  
PREP. BATCH: HGE008S HGE008S  
CALIB. REF: M47E010008 M47E010008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.93	1.02	109	85-115

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D165  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 13.9  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-514-SA5C-SB-0.0-0.5  
CONTROL NO.: D155-07 D155-07A  
LAB FILE ID: M47E010047 M47E010046  
DATIME EXTRCTD: 05/11/1213:25 05/11/1213:25 DATE COLLECTED: 04/17/12  
DATIME ANALYZD: 05/11/1217:20 05/11/1217:18 DATE RECEIVED: 04/17/12  
PREP. BATCH: HGE009S HGE009S  
CALIB. REF: M47E010044 M47E010044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.963	1.03	107	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D165  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.9  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-691-SA5C-SB-0.0- D147-01J  
 EMAX SAMP ID: D147-01 D147-01J  
 LAB FILE ID: M47E010014 M47E010015  
 DATE EXTRACTED: 05/11/1213:00 05/11/1213:00 DATE COLLECTED: 04/16/12  
 DATE ANALYZED: 05/11/1216:06 05/11/1216:09 DATE RECEIVED: 04/16/12  
 PREP. BATCH: HGE008S HGE008S  
 CALIB. REF: M47E010008 M47E010008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D165  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	13.9
DILUTION FACTOR:	0.995	4.98		
SAMPLE ID:	SL-514-SA5C-SB-0.0-	SL-514-SA5C-SB-0.0-		
EMAX SAMP ID:	D155-07	D155-07J		
LAB FILE ID:	M47E010047	M47E010048		
DATE EXTRACTED:	05/11/1213:25	05/11/1213:25	DATE COLLECTED:	04/17/12
DATE ANALYZED:	05/11/1217:20	05/11/1217:23	DATE RECEIVED:	04/17/12
PREP. BATCH:	HGE009S	HGE009S		
CALIB. REF:	M47E010044	M47E010044		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/23/12 15:00
Sample ID    : EB-041912                       Date Analyzed: 05/03/12 16:14
Lab Samp ID  : D175-01                         Dilution Factor: 1.1
Lab File ID  : REF077                          Matrix          : WATER
Ext Btch ID  : SVD043W                        % Moisture     : NA
Calib. Ref.  : RDF015                          Instrument ID   : T-OF0
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.22	0.11
ACENAPHTHYLENE	ND	0.22	0.11
ANTHRACENE	ND	0.22	0.11
BENZO (A) ANTHRACENE	ND	0.22	0.11
BENZO (A) PYRENE	ND	0.22	0.11
BENZO (B) FLUORANTHENE	ND	0.22	0.11
BENZO (K) FLUORANTHENE	ND	0.22	0.11
BENZO (G, H, I) PERYLENE	ND	0.22	0.11
CHRYSENE	ND	0.22	0.11
DIBENZO (A, H) ANTHRACENE	ND	0.22	0.11
FLUORANTHENE	ND	0.22	0.11
FLUORENE	ND	0.22	0.11
INDENO (1, 2, 3-CD) PYRENE	ND	0.22	0.11
NAPHTHALENE	ND	0.22	0.11
PHENANTHRENE	ND	0.22	0.11
2-METHYLNAPHTHALENE	ND	0.22	0.11
1-METHYLNAPHTHALENE	ND	0.22	0.11
N-NITROSODIMETHYLAMINE	ND	1.1	0.11
PYRENE	ND	0.22	0.11
AZOBENZENE	ND	1.1	0.11
BENZO (E) PYRENE	ND	0.22	0.11
BIPHENYL	ND	2.2	0.55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	17.8	22.00	81.0	40-130
2-FLUOROBIPHENYL	14.9	22.00	67.6	45-130
TERPHENYL-D14	23.5	22.00	107	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D175                           Date Extracted: 04/23/12 15:00
Sample ID    : MBLK1W                           Date Analyzed: 05/03/12 14:17
Lab Samp ID  : SVD043WB                         Dilution Factor: 1
Lab File ID  : REF072                           Matrix          : WATER
Ext Btch ID  : SVD043W                           % Moisture     : NA
Calib. Ref.  : RDF015                           Instrument ID   : T-OF0
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	20.0	20.00	100	40-130
2-FLUOROBIPHENYL	15.9	20.00	79.6	45-130
TERPHENYL-D14	22.8	20.00	114	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D175  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVD043WB SVD043WL SVD043WC  
LAB FILE ID: REF072 REF073 REF074  
DATE EXTRACTED: 04/23/1215:00 04/23/1215:00 04/23/1215:00 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1214:17 05/03/1214:36 05/03/1215:00 DATE RECEIVED: 04/23/12  
PREP. BATCH: SVD043W SVD043W SVD043W  
CALIB. REF: RDF015 RDF015 RDF015

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	35.1	88	40.0	38.5	96	9	20-130	30
Acenaphthylene	ND	40.0	35.8	90	40.0	39.5	99	10	30-140	30
Anthracene	ND	40.0	40.2	101	40.0	38.5	96	4	40-130	30
Benzo (a) anthracene	ND	40.0	45.8	115	40.0	43.3	108	6	50-130	30
Benzo (a) pyrene	ND	40.0	43.3	108	40.0	40.8	102	6	50-130	30
Benzo (b) fluoranthene	ND	40.0	47.5	119	40.0	43.6	109	9	50-130	30
Benzo (k) fluoranthene	ND	40.0	40.3	101	40.0	39.1	98	3	50-130	30
Benzo (g, h, i) perylene	ND	40.0	53.8	134	40.0	50.0	125	7	30-150	30
Chrysene	ND	40.0	49.7	124	40.0	46.9	117	6	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	51.3	128	40.0	47.6	119	8	40-140	30
Fluoranthene	ND	40.0	43.7	109	40.0	41.1	103	6	40-130	30
Fluorene	ND	40.0	40.4	101	40.0	41.3	103	2	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	50.0	125	40.0	46.4	116	8	40-130	30
Naphthalene	ND	40.0	31.3	78	40.0	34.9	87	11	20-130	30
Phenanthrene	ND	40.0	42.9	107	40.0	40.8	102	5	40-130	30
2-Methylnaphthalene	ND	40.0	35.0	87	40.0	39.2	98	11	30-150	30
1-Methylnaphthalene	ND	40.0	34.6	87	40.0	39.1	98	12	40-150	30
N-Nitrosodimethylamine	ND	40.0	37.3	93	40.0	38.0	95	2	20-150	30
Pyrene	ND	40.0	43.2	108	40.0	41.0	103	5	30-150	30
Azobenzene	ND	40.0	47.4	119	40.0	47.2	118	0	30-150	30
Benzo (e) pyrene	ND	40.0	39.3	98	40.0	38.2	95	3	30-150	30
Biphenyl	ND	40.0	27.3	68	40.0	32.2	81	17	30-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	16.5	83	20.0	18.8	94	40-130
2-Fluorobiphenyl	20.0	13.2	66	20.0	15.3	77	45-130
Terphenyl-d14	20.0	21.3	107	20.0	20.8	104	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 11:44
Sample ID    : SL-513-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 19:06
Lab Samp ID  : D175-02                           Dilution Factor: 2
Lab File ID  : REJ066                             Matrix          : SOIL
Ext Btch ID  : SVD053S                           % Moisture     : 14.4
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	23	5.8
ACENAPHTHYLENE	ND	23	5.8
ANTHRACENE	ND	23	5.8
BENZO (A) ANTHRACENE	ND	23	5.8
BENZO (A) PYRENE	ND	23	5.8
BENZO (B) FLUORANTHENE	ND	23	5.8
BENZO (K) FLUORANTHENE	ND	23	5.8
BENZO (G, H, I) PERYLENE	ND	23	5.8
CHRYSENE	ND	23	5.8
DIBENZO (A, H) ANTHRACENE	ND	23	5.8
FLUORANTHENE	6.8J	23	5.8
FLUORENE	ND	23	5.8
INDENO (1, 2, 3-CD) PYRENE	ND	23	5.8
NAPHTHALENE	ND	23	5.8
PHENANTHRENE	ND	23	5.8
2-METHYLNAPHTHALENE	ND	23	5.8
1-METHYLNAPHTHALENE	ND	23	5.8
N-NITROSODIMETHYLAMINE	ND	23	5.8
PYRENE	5.9J	23	5.8
AZOBENZENE	ND	12	5.8
BENZO (E) PYRENE	ND	12	5.8
BIPHENYL	ND	12	5.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	234	389.4	60.0	40-130
2-FLUOROBIPHENYL	193	389.4	49.5	45-130
TERPHENYL-D14	247	389.4	63.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 11:44
Sample ID:   SL-515-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 19:24
Lab Samp ID: D175-03                           Dilution Factor: 1
Lab File ID: REJ067                            Matrix          : SOIL
Ext Btch ID: SVD053S                           % Moisture     : 10.0
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	3.3J	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	5.7J	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	3.2J	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	4.6J	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	119	370.3	32.0*	40-130
2-FLUOROBIPHENYL	116	370.3	31.2*	45-130
TERPHENYL-D14	281	370.3	75.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 11:44
Sample ID:   SL-516-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 19:43
Lab Samp ID: D175-04                           Dilution Factor: 2
Lab File ID: REJ068                            Matrix          : SOIL
Ext Btch ID: SVD053S                           % Moisture     : 14.1
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	6.3J	23	5.8
ACENAPHTHYLENE	8.1J	23	5.8
ANTHRACENE	21J	23	5.8
BENZO (A) ANTHRACENE	97	23	5.8
BENZO (A) PYRENE	93	23	5.8
BENZO (B) FLUORANTHENE	160	23	5.8
BENZO (K) FLUORANTHENE	59	23	5.8
BENZO (G, H, I) PERYLENE	58	23	5.8
CHRYSENE	150	23	5.8
DIBENZO (A, H) ANTHRACENE	19J	23	5.8
FLUORANTHENE	400	23	5.8
FLUORENE	7.1J	23	5.8
INDENO (1, 2, 3-CD) PYRENE	45	23	5.8
NAPHTHALENE	ND	23	5.8
PHENANTHRENE	210	23	5.8
2-METHYLNAPHTHALENE	ND	23	5.8
1-METHYLNAPHTHALENE	ND	23	5.8
N-NITROSODIMETHYLAMINE	ND	23	5.8
PYRENE	310	23	5.8
AZOBENZENE	ND	12	5.8
BENZO (E) PYRENE	88	12	5.8
BIPHENYL	ND	12	5.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	212	388.0	54.8	40-130
2-FLUOROBIPHENYL	200	388.0	51.4	45-130
TERPHENYL-D14	297	388.0	76.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 11:44
Sample ID    : SL-516-SA5C-SB-4.0-5.0          Date Analyzed: 05/03/12 20:02
Lab Samp ID  : D175-05                          Dilution Factor: 1
Lab File ID  : REJ069                           Matrix          : SOIL
Ext Btch ID  : SVD053S                          % Moisture     : 13.1
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	5.1J	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	4.2J	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	129	383.5	33.7*	40-130
2-FLUOROBIPHENYL	116	383.5	30.3*	45-130
TERPHENYL-D14	289	383.5	75.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 11:44
Sample ID:   SL-575-SA5C-SB-0.0-0.5            Date Analyzed: 05/03/12 20:21
Lab Samp ID: D175-06                             Dilution Factor: 1
Lab File ID: REJ070                             Matrix          : SOIL
Ext Btch ID: SVD053S                            % Moisture     : 14.7
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	3.7J	12	2.9
BENZO (B) FLUORANTHENE	6.1J	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	3.2J	12	2.9
CHRYSENE	4.5J	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	9.4J	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	4.0J	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	8.2J	12	2.9
AZOBENZENE	ND	5.9	2.9
BENZO (E) PYRENE	3.9J	5.9	2.9
BIPHENYL	ND	5.9	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	115	390.7	29.4*	40-130
2-FLUOROBIPHENYL	111	390.7	28.3*	45-130
TERPHENYL-D14	277	390.7	70.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 11:44
Sample ID:   SL-510-SA5C-SB-0.0-0.5            Date Analyzed: 05/03/12 20:40
Lab Samp ID: D175-07                           Dilution Factor: 1
Lab File ID: REJ071                             Matrix          : SOIL
Ext Btch ID: SVD053S                           % Moisture     : 16.8
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	3.0
ACENAPHTHYLENE	ND	12	3.0
ANTHRACENE	5.1J	12	3.0
BENZO (A) ANTHRACENE	14	12	3.0
BENZO (A) PYRENE	24	12	3.0
BENZO (B) FLUORANTHENE	41	12	3.0
BENZO (K) FLUORANTHENE	14	12	3.0
BENZO (G, H, I) PERYLENE	17	12	3.0
CHRYSENE	28	12	3.0
DIBENZO (A, H) ANTHRACENE	4.3J	12	3.0
FLUORANTHENE	46	12	3.0
FLUORENE	ND	12	3.0
INDENO (1, 2, 3-CD) PYRENE	14	12	3.0
NAPHTHALENE	ND	12	3.0
PHENANTHRENE	12J	12	3.0
2-METHYLNAPHTHALENE	ND	12	3.0
1-METHYLNAPHTHALENE	ND	12	3.0
N-NITROSODIMETHYLAMINE	ND	12	3.0
PYRENE	43	12	3.0
AZOBENZENE	ND	6.0	3.0
BENZO (E) PYRENE	20	6.0	3.0
BIPHENYL	ND	6.0	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	188	400.6	47.0	40-130
2-FLUOROBIPHENYL	181	400.6	45.1	45-130
TERPHENYL-D14	300	400.6	74.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 11:44
Sample ID:   SL-518-SA5C-SB-0.0-0.5            Date Analyzed: 05/03/12 20:58
Lab Samp ID: D175-08                            Dilution Factor: 2
Lab File ID: REJ072                             Matrix          : SOIL
Ext Btch ID: SVD053S                            % Moisture      : 3.1
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.2
ACENAPHTHYLENE	ND	21	5.2
ANTHRACENE	ND	21	5.2
BENZO (A) ANTHRACENE	ND	21	5.2
BENZO (A) PYRENE	7.9J	21	5.2
BENZO (B) FLUORANTHENE	16J	21	5.2
BENZO (K) FLUORANTHENE	ND	21	5.2
BENZO (G, H, I) PERYLENE	19J	21	5.2
CHRYSENE	25	21	5.2
DIBENZO (A, H) ANTHRACENE	ND	21	5.2
FLUORANTHENE	8.6J	21	5.2
FLUORENE	ND	21	5.2
INDENO (1, 2, 3-CD) PYRENE	7.4J	21	5.2
NAPHTHALENE	ND	21	5.2
PHENANTHRENE	ND	21	5.2
2-METHYLNAPHTHALENE	ND	21	5.2
1-METHYLNAPHTHALENE	ND	21	5.2
N-NITROSODIMETHYLAMINE	ND	21	5.2
PYRENE	8.3J	21	5.2
AZOBENZENE	ND	10	5.2
BENZO (E) PYRENE	27	10	5.2
BIPHENYL	ND	10	5.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	209	344.0	60.8	40-130
2-FLUOROBIPHENYL	187	344.0	54.5	45-130
TERPHENYL-D14	257	344.0	74.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 11:44
Sample ID:   SL-517-SA5C-SB-0.0-0.5            Date Analyzed: 05/03/12 21:17
Lab Samp ID: D175-09                            Dilution Factor: 3
Lab File ID: REJ073                             Matrix          : SOIL
Ext Btch ID: SVD053S                            % Moisture     : 7.4
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	51	32	8.1
ACENAPHTHYLENE	ND	32	8.1
ANTHRACENE	92	32	8.1
BENZO (A) ANTHRACENE	270	32	8.1
BENZO (A) PYRENE	310	32	8.1
BENZO (B) FLUORANTHENE	400	32	8.1
BENZO (K) FLUORANTHENE	140	32	8.1
BENZO (G, H, I) PERYLENE	190	32	8.1
CHRYSENE	330	32	8.1
DIBENZO (A, H) ANTHRACENE	53	32	8.1
FLUORANTHENE	710	32	8.1
FLUORENE	35	32	8.1
INDENO (1, 2, 3-CD) PYRENE	160	32	8.1
NAPHTHALENE	ND	32	8.1
PHENANTHRENE	460	32	8.1
2-METHYLNAPHTHALENE	ND	32	8.1
1-METHYLNAPHTHALENE	ND	32	8.1
N-NITROSODIMETHYLAMINE	ND	32	8.1
PYRENE	670	32	8.1
AZOBENZENE	ND	16	8.1
BENZO (E) PYRENE	190	16	8.1
BIPHENYL	ND	16	8.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	194	359.9	54.0	40-130
2-FLUOROBIPHENYL	189	359.9	52.6	45-130
TERPHENYL-D14	241	359.9	66.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 11:44
Sample ID    : MBLK1S                            Date Analyzed: 05/03/12 11:53
Lab Samp ID  : SVD053SB                         Dilution Factor: 1
Lab File ID  : REJ043                            Matrix          : SOIL
Ext Btch ID  : SVD053S                           % Moisture     : NA
Calib. Ref.  : RAJ290                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	258	333.3	77.5	40-130
2-FLUOROBIPHENYL	242	333.3	72.6	45-130
TERPHENYL-D14	322	333.3	96.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D175  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVD053SB SVD053SL SVD053SC  
LAB FILE ID: REJ043 REJ044 REJ045  
DATE EXTRACTED: 04/30/1211:44 04/30/1211:44 04/30/1211:44 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1211:53 05/03/1212:12 05/03/1212:31 DATE RECEIVED: 04/30/12  
PREP. BATCH: SVD053S SVD053S SVD053S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	279	84	333	286	86	3	10-130	50
Acenaphthylene	ND	333	316	95	333	323	97	2	20-130	50
Anthracene	ND	333	269	81	333	284	85	5	20-130	50
Benzo(a)anthracene	ND	333	310	93	333	343	103	10	30-130	50
Benzo(a)pyrene	ND	333	343	103	333	364	109	6	30-130	50
Benzo(b)fluoranthene	ND	333	355	107	333	391	117	10	40-130	50
Benzo(k)fluoranthene	ND	333	357	107	333	365	110	2	30-140	50
Benzo(g,h,i)perylene	ND	333	370	111	333	383	115	3	30-140	50
Chrysene	ND	333	294	88	333	325	97	10	30-140	50
Dibenzo(a,h)anthracene	ND	333	375	113	333	388	116	3	40-140	50
Fluoranthene	ND	333	319	96	333	348	104	9	30-130	50
Fluorene	ND	333	318	95	333	317	95	1	20-130	50
Indeno(1,2,3-cd)pyrene	ND	333	376	113	333	389	117	3	20-160	50
Naphthalene	ND	333	253	76	333	266	80	5	10-130	50
Phenanthrene	ND	333	269	81	333	283	85	5	20-130	50
2-Methylnaphthalene	ND	333	282	85	333	292	87	3	30-150	50
1-Methylnaphthalene	ND	333	281	84	333	291	87	3	30-150	50
N-Nitrosodimethylamine	ND	333	262	79	333	303	91	15	30-150	50
Pyrene	ND	333	304	91	333	335	100	9	20-150	50
Azobenzene	ND	333	262	79	333	309	93	16	30-150	50
Benzo(e)pyrene	ND	333	345	103	333	337	101	2	30-150	50
Biphenyl	ND	333	271	81	333	257	77	5	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	253	76	333	280	84	40-130
2-Fluorobiphenyl	333	242	73	333	235	70	45-130
Terphenyl-d14	333	301	90	333	306	92	45-130

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/23/12 13:10
Sample ID    : EB-041912                       Date Analyzed: 04/24/12 20:35
Lab Samp ID  : D175-01                         Dilution Factor: 1.09
Lab File ID  : LD24019A                       Matrix          : WATER
Ext Btch ID  : DSD038W                        % Moisture     : NA
Calib. Ref.  : LD24014A                       Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.11	0.055
EFH(C12-C14)	ND	0.11	0.055
EFH(C15-C20)	ND	0.11	0.055
EFH(C21-C30)	ND	0.11	0.055
EFH(C30-C40)	ND	0.11	0.055
TOTAL EFH(C8-C40)	ND	0.11	0.055

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.898	1.090	82.4	40-130
HEXACOSANE	0.239	0.2725	87.5	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D175                           Date Extracted: 04/23/12 13:10
Sample ID    : MBLK1W                           Date Analyzed: 04/24/12 19:44
Lab Samp ID  : DSD038WB                         Dilution Factor: 1
Lab File ID  : LD24016A                         Matrix          : WATER
Ext Btch ID  : DSD038W                          % Moisture     : NA
Calib. Ref.  : LD24014A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.823	1.000	82.3	40-130
HEXACOSANE	0.214	0.2500	85.6	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D175  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSD038WB DSD038WL DSD038WC  
LAB FILE ID: LD24016A LD24017A LD24018A  
DATE EXTRACTED: 04/23/1213:10 04/23/1213:10 04/23/1213:10 DATE COLLECTED: NA  
DATE ANALYZED: 04/24/1219:44 04/24/1220:01 04/24/1220:18 DATE RECEIVED: 04/23/12  
PREP. BATCH: DSD038W DSD038W DSD038W  
CALIB. REF: LD24014A LD24014A LD24014A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.82	96	5.00	4.92	98	2	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.816	82	1.00	0.836	84	40-130
Hexacosane	0.250	0.209	84	0.250	0.211	84	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/24/12 10:20
Sample ID:   SL-513-SA5C-SB-0.0-0.5            Date Analyzed: 04/25/12 06:13
Lab Samp ID: D175-02                            Dilution Factor: 1
Lab File ID: LD24053A                           Matrix          : SOIL
Ext Btch ID: DSD039S                            % Moisture     : 14.4
Calib. Ref.: LD24050A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	13	5.8	2.9
EFH(C30-C40)	34	12	5.8
TOTAL EFH(C8-C40)	47	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	83.7	116.8	71.7	50-150
HEXACOSANE	24.5	29.21	84.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/24/12 10:20
Sample ID:   SL-515-SA5C-SB-0.0-0.5           Date Analyzed: 04/25/12 03:57
Lab Samp ID: D175-03                           Dilution Factor: 1
Lab File ID: LD24045A                         Matrix          : SOIL
Ext Btch ID: DSD039S                          % Moisture     : 10.0
Calib. Ref.: LD24038A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	3.8J	5.6	2.8
EFH(C30-C40)	12	11	5.6
TOTAL EFH(C8-C40)	16	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.4	111.1	68.7	50-150
HEXACOSANE	22.5	27.78	80.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/24/12 10:20
Sample ID:   SL-516-SA5C-SB-0.0-0.5            Date Analyzed: 04/25/12 06:30
Lab Samp ID: D175-04                            Dilution Factor: 1
Lab File ID: LD24054A                           Matrix          : SOIL
Ext Btch ID: DSD039S                            % Moisture      : 14.1
Calib. Ref.: LD24050A                           Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	21	5.8	2.9
EFH(C30-C40)	60	12	5.8
TOTAL EFH(C8-C40)	81	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.2	116.4	67.2	50-150
HEXACOSANE	24.9	29.10	85.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/24/12 10:20
Sample ID    : SL-516-SA5C-SB-4.0-5.0          Date Analyzed: 04/25/12 04:49
Lab Samp ID  : D175-05                           Dilution Factor: 1
Lab File ID  : LD24048A                          Matrix          : SOIL
Ext Btch ID  : DSD039S                           % Moisture     : 13.1
Calib. Ref.  : LD24038A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	82.0	115.1	71.3	50-150
HEXACOSANE	23.3	28.77	81.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/24/12 10:20
Sample ID:   SL-575-SA5C-SB-0.0-0.5            Date Analyzed: 04/25/12 05:06
Lab Samp ID: D175-06                           Dilution Factor: 1
Lab File ID: LD24049A                          Matrix          : SOIL
Ext Btch ID: DSD039S                           % Moisture     : 14.7
Calib. Ref.: LD24038A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.9	2.9
EFH(C12-C14)	ND	5.9	2.9
EFH(C15-C20)	ND	5.9	2.9
EFH(C21-C30)	5.3J	5.9	2.9
EFH(C30-C40)	15	12	5.9
TOTAL EFH(C8-C40)	20	5.9	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.8	117.2	64.7	50-150
HEXACOSANE	23.2	29.31	79.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 04/24/12
Batch No.    : 12D175                             Date Extracted: 04/24/12 10:20
Sample ID    : MBLK1S                             Date Analyzed: 04/25/12 01:41
Lab Samp ID  : DSD039SB                           Dilution Factor: 1
Lab File ID  : LD24037A                           Matrix          : SOIL
Ext Btch ID  : DSD039S                             % Moisture      : NA
Calib. Ref.  : LD24026A                           Instrument ID    : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.8	100.0	72.8	50-150
HEXACOSANE	19.6	25.00	78.4	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D175  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSD039SB DSD039SL DSD039SC  
LAB FILE ID: LD24037A LD24035A LD24036A  
DATE EXTRACTED: 04/24/1210:20 04/24/1210:20 04/24/1210:20 DATE COLLECTED: NA  
DATE ANALYZED: 04/25/1201:41 04/25/1201:07 04/25/1201:24 DATE RECEIVED: 04/24/12  
PREP. BATCH: DSD039S DSD039S DSD039S  
CALIB. REF: LD24026A LD24026A LD24026A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	474	95	500	454	91	4	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	79.5	80	100	76.3	76	50-150
Hexacosane	25.0	20.7	83	25.0	19.9	80	50-150

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/23/12 12:00
Sample ID    : EB-041912                        Date Analyzed: 05/01/12 17:15
Lab Samp ID  : D175-01                          Dilution Factor: 1
Lab File ID  : KE01008A                         Matrix          : WATER
Ext Btch ID  : CPD053W                           % Moisture     : NA
Calib. Ref.  : KE01002A                         Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	0.6917   (0.4438)	0.4000	173*   (111)	45-120
TETRACHLORO-M-XYLENE	(0.5464)   0.3753	0.4000	(137)   93.8	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.   : 12D175                           Date Extracted: 04/23/12 12:00
Sample ID   : MBLK1W                           Date Analyzed: 05/01/12 14:35
Lab Samp ID: CPD053WB                         Dilution Factor: 1
Lab File ID: KE01005A                        Matrix          : WATER
Ext Btch ID: CPD053W                          % Moisture     : NA
Calib. Ref.: KE01002A                        Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.4552)   0.3117	0.4000	(114)   77.9	45-120
TETRACHLORO-M-XYLENE	(0.4087)   0.3312	0.4000	(102)   82.8	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D175  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPD053WB 60D053WX 60D053WY  
LAB FILE ID: KE01005A KE01006A KE01007A  
DATE EXTRACTED: 04/23/1212:00 04/23/1212:00 04/23/1212:00 DATE COLLECTED: NA  
DATE ANALYZED: 05/01/1214:35 05/01/1215:28 05/01/1216:22 DATE RECEIVED: 04/23/12  
PREP. BATCH: CPD053W CPD053W CPD053W  
CALIB. REF: KE01002A KE01002A KE01002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	(4.76)   3.61	(95)   72	5.00	6.82   (5.04)	136*   (101)	36*   (33*)	50-130	30
Aroclor 1260	(ND)   ND	5.00	5.09   (5.48)	102   (110)	5.00	7.53   (7.45)	151*   (149)	39*   (30*)	60-150	30
Aroclor 5460	(ND)   ND	2.50	(2.71)   2.57	(108)   103	2.50	3.94   (3.74)	158*   (150)	37*   (37*)	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	(0.4580)   0.3115	(115)   77.9	0.4000	0.6492   (0.4224)	162*   (106)	45-120
Tetrachloro-m-xylene	0.4000	(0.4109)   0.3151	(103)   78.8	0.4000	0.5776   (0.4358)	144*   (109)	30-140

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 04/19/12
Project    : SSFL PHASE 3                       Date Received: 04/19/12
Batch No.  : 12D175                             Date Extracted: 04/30/12 15:43
Sample ID  : SL-513-SA5C-SB-0.0-0.5            Date Analyzed: 05/02/12 03:52
Lab Samp ID: D175-02                            Dilution Factor: 1
Lab File ID: KE01020A                          Matrix          : SOIL
Ext Btch ID: CPD070S                            % Moisture     : 14.4
Calib. Ref.: KE01017A                          Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.69)   12.68	15.57	(107)   81.4	45-120
TETRACHLORO-M-XYLENE	(16.46)   11.54	15.57	(106)   74.1	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-515-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 04:45
Lab Samp ID  : D175-03                          Dilution Factor: 1
Lab File ID  : KE01021A                        Matrix          : SOIL
Ext Btch ID  : CPD070S                          % Moisture     : 10.0
Calib. Ref.  : KE01017A                        Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(34)   28	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(16.34)   13.28	14.81	(110)   89.7	45-120
TETRACHLORO-M-XYLENE	(14.20)   10.37	14.81	(95.9)   70.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-516-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 05:38
Lab Samp ID  : D175-04                           Dilution Factor: 1
Lab File ID  : KE01022A                         Matrix          : SOIL
Ext Btch ID  : CPD070S                          % Moisture     : 14.1
Calib. Ref.  : KE01017A                         Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(100)   94	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	31J   (36J)	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.36)   11.75	15.52	(99.0)   75.7	45-120
TETRACHLORO-M-XYLENE	(16.07)   10.34	15.52	(104)   66.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-516-SA5C-SB-4.0-5.0          Date Analyzed: 05/02/12 06:31
Lab Samp ID  : D175-05                           Dilution Factor: 1
Lab File ID  : KE01023A                         Matrix          : SOIL
Ext Btch ID  : CPD070S                          % Moisture     : 13.1
Calib. Ref.  : KE01017A                         Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.93)   13.12	15.34	(97.4)   85.5	45-120
TETRACHLORO-M-XYLENE	(14.25)   10.82	15.34	(92.9)   70.5	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-575-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 07:24
Lab Samp ID  : D175-06                           Dilution Factor: 1
Lab File ID  : KE01024A                          Matrix          : SOIL
Ext Btch ID  : CPD070S                            % Moisture     : 14.7
Calib. Ref.  : KE01017A                          Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(200)   140	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(17.23)   13.75	15.63	(110)   88.0	45-120
TETRACHLORO-M-XYLENE	(15.76)   10.21	15.63	(101)   65.3	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-510-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 08:17
Lab Samp ID  : D175-07                           Dilution Factor: 1
Lab File ID  : KE01025A                          Matrix          : SOIL
Ext Btch ID  : CPD070S                            % Moisture     : 16.8
Calib. Ref.  : KE01017A                          Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	48	24   24	
AROCLOR 5442	(ND)   ND	48	24   24	
AROCLOR 5460	(ND)   ND	48	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(17.19)   15.63	16.02	(107)   97.6	45-120
TETRACHLORO-M-XYLENE	(16.34)   11.45	16.02	(102)   71.5	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-518-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 09:10
Lab Samp ID  : D175-08                          Dilution Factor: 1
Lab File ID  : KE01026A                        Matrix          : SOIL
Ext Btch ID  : CPD070S                         % Moisture     : 3.1
Calib. Ref.  : KE01017A                        Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	41	21   21	
AROCLOR 5442	(ND)   ND	41	21   21	
AROCLOR 5460	(ND)   ND	41	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.63)   7.133	13.76	(91.8)   51.9	45-120
TETRACHLORO-M-XYLENE	(14.52)   10.26	13.76	(106)   74.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-517-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 10:03
Lab Samp ID  : D175-09                          Dilution Factor: 1
Lab File ID  : KE01027A                        Matrix          : SOIL
Ext Btch ID  : CPD070S                         % Moisture     : 7.4
Calib. Ref.  : KE01017A                        Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(220)   160	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.05)   11.43	14.40	(97.6)   79.4	45-120
TETRACHLORO-M-XYLENE	(15.36)   9.564	14.40	(107)   66.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D175                           Date Extracted: 04/30/12 15:43
Sample ID    : MBLK1S                           Date Analyzed: 05/01/12 18:08
Lab Samp ID  : 60D070SB                         Dilution Factor: 1
Lab File ID  : KE01009A                        Matrix          : SOIL
Ext Btch ID  : CPD070S                          % Moisture     : NA
Calib. Ref.  : KE01002A                        Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	22.14   (14.21)	13.33	166*   (107)	45-120
TETRACHLORO-M-XYLENE	(21.00)   16.55	13.33	(158)   124	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D175  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60D070SB 60D070SL 60D070SC  
LAB FILE ID: KE01009A KE01010A KE01011A  
DATE EXTRACTED: 04/30/1215:43 04/30/1215:43 04/30/1215:43 DATE COLLECTED: NA  
DATE ANALYZED: 05/01/1218:08 05/01/1219:01 05/01/1219:54 DATE RECEIVED: 04/30/12  
PREP. BATCH: CPD070S CPD070S CPD070S  
CALIB. REF: KE01002A KE01002A KE01002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(146)   112	(88)   67	167	(149)   129	(89)   77	(2)   14	50-130	50
Aroclor 1260	(ND)   ND	167	169   (173)	101   (104)	167	173   (179)	104   (107)	2   (3)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(89.6)   87.8	(108)   105	83.3	86.0   (90.4)	103   (109)	4   (3)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(14.70)   12.30	(110)   92.2	13.33	(14.82)   11.44	(111)   85.8	45-120
Tetrachloro-m-xylene	13.33	(12.82)   9.740	(96.2)   73.1	13.33	(13.12)   10.44	(98.5)   78.3	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/19/12
Project    : SSFL PHASE 3                     Date Received: 04/19/12
SDG NO.    : 12D175                           Date Extracted: 04/25/12 09:45
Sample ID  : EB-041912                        Date Analyzed: 05/03/12 14:33
Lab Samp ID: D175-01W                         Dilution Factor: 1
Lab File ID: 98E03043                         Matrix          : WATER
Ext Btch ID: IMD038W                          % Moisture     : NA
Calib. Ref.: 98E03041                         Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	0.000878J	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	0.0461J	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.000506J	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 04/25/12
SDG NO.    : 12D175                           Date Extracted: 04/25/12 09:45
Sample ID: MBLK1W                             Date Analyzed: 05/03/12 14:37
Lab Samp ID: IMD038WQ                         Dilution Factor: 1
Lab File ID: 98E03044                        Matrix          : WATER
Ext Btch ID: IMD038W                          % Moisture     : NA
Calib. Ref.: 98E03041                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D175  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMD038WQ IMD038WX IMD038WY  
LAB FILE ID: 98E03044 98E03045 98E03046  
DATIME EXTRACTD: 04/25/1209:45 04/25/1209:45 04/25/1209:45 DATE COLLECTED: NA  
DATIME ANALYZD: 05/03/1214:37 05/03/1214:42 05/03/1214:47 DATE RECEIVED: 04/25/12  
PREP. BATCH: NA NA NA  
CALIB. REF: 98E03041 98E03041 98E03041

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.64	106	2.50	2.73	109	3	80-120	20
Antimony	ND	0.0250	0.0260	104	0.0250	0.0262	105	1	80-120	20
Arsenic	ND	0.0250	0.0258	103	0.0250	0.0256	102	1	80-120	20
Barium	ND	0.0250	0.0260	104	0.0250	0.0262	105	1	80-120	20
Beryllium	ND	0.0250	0.0251	100	0.0250	0.0254	102	1	80-120	20
Boron	ND	0.0250	0.0252	101	0.0250	0.0265	106	5	80-120	20
Cadmium	ND	0.0250	0.0253	101	0.0250	0.0257	103	1	80-120	20
Calcium	ND	2.50	2.74	110	2.50	2.83	113	3	80-120	20
Chromium	ND	0.0250	0.0247	99	0.0250	0.0254	102	3	80-120	20
Cobalt	ND	0.0250	0.0249	100	0.0250	0.0256	102	3	80-120	20
Copper	ND	0.0250	0.0247	99	0.0250	0.0254	101	2	80-120	20
Iron	ND	2.50	2.64	106	2.50	2.70	108	2	80-120	20
Lead	ND	0.0250	0.0257	103	0.0250	0.0262	105	2	80-120	20
Magnesium	ND	2.50	2.67	107	2.50	2.75	110	3	80-120	20
Manganese	ND	0.0250	0.0250	100	0.0250	0.0255	102	2	80-120	20
Molybdenum	ND	0.0250	0.0252	101	0.0250	0.0256	102	2	80-120	20
Nickel	ND	0.0250	0.0252	101	0.0250	0.0257	103	2	80-120	20
Potassium	ND	2.50	2.69	108	2.50	2.79	111	3	80-120	20
Selenium	ND	0.0250	0.0250	100	0.0250	0.0253	101	1	80-120	20
Silver	ND	0.0250	0.0257	103	0.0250	0.0260	104	1	80-120	20
Sodium	ND	2.50	2.69	108	2.50	2.74	110	2	80-120	20
Strontium	ND	0.0250	0.0253	101	0.0250	0.0258	103	2	80-120	20
Thallium	ND	0.0250	0.0254	102	0.0250	0.0258	103	2	80-120	20
Tin	ND	0.0250	0.0261	104	0.0250	0.0263	105	1	80-120	20
Titanium	ND	0.0250	0.0257	103	0.0250	0.0259	104	1	80-120	20
Vanadium	ND	0.0250	0.0247	99	0.0250	0.0253	101	2	80-120	20
Zinc	ND	0.0500	0.0535	107	0.0500	0.0544	109	2	80-120	20
Lithium	ND	0.0250	0.0251	101	0.0250	0.0254	102	1	80-120	20
Phosphorus	ND	0.250	0.261	104	0.250	0.267	107	2	80-120	20
Zirconium	ND	0.0250	0.0262	105	0.0250	0.0264	106	1	80-120	20

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/19/12
Project     : SSFL PHASE 3                     Date Received: 04/19/12
SDG NO.    : 12D175                           Date Extracted: 04/25/12 10:46
Sample ID   : SL-513-SA5C-SB-0.0-0.5         Date Analyzed: 05/03/12 14:01
Lab Samp ID: D175-02W                         Dilution Factor: 0.957
Lab File ID: 98E03036                        Matrix          : SOIL
Ext Btch ID: IMD037S                         % Moisture     : 14.4
Calib. Ref.: 98E03029                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16200	112	13.4
Antimony	0.253J	0.559	0.112
Arsenic	4.30	0.559	0.224
Barium	122	0.559	0.224
Beryllium	0.619	0.559	0.0559
Boron	3.18J	5.59	2.79
Cadmium	0.333J	0.559	0.0559
Calcium	3510	22.4	11.2
Chromium	20.9	0.559	0.224
Cobalt	7.17	0.559	0.0559
Copper	12.0	0.559	0.224
Iron	20100	112	11.2
Lead	25.4	0.559	0.112
Magnesium	4300	11.2	5.59
Manganese	336	0.559	0.279
Molybdenum	0.599	0.559	0.0559
Nickel	13.0	0.559	0.224
Potassium	3550	112	33.5
Selenium	ND	0.559	0.224
Silver	0.0990J	0.559	0.0559
Sodium	86.2J	112	55.9
Strontium	27.8	0.559	0.279
Thallium	0.270J	0.447	0.0559
Tin	ND	11.2	5.59
Titanium	799	1.12	0.559
Vanadium	39.4	0.559	0.0559
Zinc	61.2	5.59	1.68
Lithium	15.7	2.24	1.12
Phosphorus	349	13.4	6.71
Zirconium	ND	5.59	2.79

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/19/12
Project     : SSFL PHASE 3                     Date Received: 04/19/12
SDG NO.    : 12D175                           Date Extracted: 04/25/12 10:46
Sample ID   : SL-515-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 14:05
Lab Samp ID: D175-03W                         Dilution Factor: 0.990
Lab File ID: 98E03037                         Matrix          : SOIL
Ext Btch ID: IMD037S                           % Moisture     : 10.0
Calib. Ref.: 98E03029                         Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14300	110	13.2
Antimony	0.213J	0.550	0.110
Arsenic	3.68	0.550	0.220
Barium	116	0.550	0.220
Beryllium	0.600	0.550	0.0550
Boron	3.00J	5.50	2.75
Cadmium	0.350J	0.550	0.0550
Calcium	3050	22.0	11.0
Chromium	18.6	0.550	0.220
Cobalt	7.71	0.550	0.0550
Copper	11.3	0.550	0.220
Iron	17200	110	11.0
Lead	15.0	0.550	0.110
Magnesium	3300	11.0	5.50
Manganese	401	0.550	0.275
Molybdenum	0.655	0.550	0.0550
Nickel	11.6	0.550	0.220
Potassium	3190	110	33.0
Selenium	ND	0.550	0.220
Silver	0.0564J	0.550	0.0550
Sodium	72.9J	110	55.0
Strontium	27.5	0.550	0.275
Thallium	0.265J	0.440	0.0550
Tin	ND	11.0	5.50
Titanium	724	1.10	0.550
Vanadium	36.0	0.550	0.0550
Zinc	43.0	5.50	1.65
Lithium	10.9	2.20	1.10
Phosphorus	180	13.2	6.60
Zirconium	ND	5.50	2.75

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
SDG NO.     : 12D175                           Date Extracted: 04/25/12 10:46
Sample ID   : SL-516-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 14:10
Lab Samp ID : D175-04W                         Dilution Factor: 0.976
Lab File ID : 98E03038                        Matrix          : SOIL
Ext Btch ID : IMD037S                         % Moisture     : 14.1
Calib. Ref. : 98E03029                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11900	114	13.6
Antimony	0.564J	0.568	0.114
Arsenic	3.48	0.568	0.227
Barium	90.7	0.568	0.227
Beryllium	0.458J	0.568	0.0568
Boron	ND	5.68	2.84
Cadmium	1.01	0.568	0.0568
Calcium	2520	22.7	11.4
Chromium	24.6	0.568	0.227
Cobalt	6.07	0.568	0.0568
Copper	28.1	0.568	0.227
Iron	16700	114	11.4
Lead	51.6	0.568	0.114
Magnesium	3420	11.4	5.68
Manganese	253	0.568	0.284
Molybdenum	0.999	0.568	0.0568
Nickel	17.3	0.568	0.227
Potassium	2680	114	34.1
Selenium	ND	0.568	0.227
Silver	0.864	0.568	0.0568
Sodium	78.5J	114	56.8
Strontium	18.1	0.568	0.284
Thallium	0.205J	0.454	0.0568
Tin	ND	11.4	5.68
Titanium	759	1.14	0.568
Vanadium	29.5	0.568	0.0568
Zinc	287	5.68	1.70
Lithium	14.2	2.27	1.14
Phosphorus	314	13.6	6.82
Zirconium	ND	5.68	2.84

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/19/12
Project     : SSFL PHASE 3                     Date Received: 04/19/12
SDG NO.    : 12D175                           Date Extracted: 04/25/12 10:46
Sample ID:  SL-516-SA5C-SB-4.0-5.0           Date Analyzed: 05/03/12 14:14
Lab Samp ID: D175-05W                         Dilution Factor: 0.995
Lab File ID: 98E03039                         Matrix          : SOIL
Ext Btch ID: IMD037S                           % Moisture     : 13.1
Calib. Ref.: 98E03029                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20500	114	13.7
Antimony	0.149J	0.572	0.114
Arsenic	5.45	0.572	0.229
Barium	138	0.572	0.229
Beryllium	0.804	0.572	0.0572
Boron	ND	5.72	2.86
Cadmium	0.247J	0.572	0.0572
Calcium	3390	22.9	11.4
Chromium	24.1	0.572	0.229
Cobalt	6.93	0.572	0.0572
Copper	9.30	0.572	0.229
Iron	23700	114	11.4
Lead	9.42	0.572	0.114
Magnesium	5060	11.4	5.72
Manganese	292	0.572	0.286
Molybdenum	0.309J	0.572	0.0572
Nickel	15.9	0.572	0.229
Potassium	1730	114	34.3
Selenium	ND	0.572	0.229
Silver	0.119J	0.572	0.0572
Sodium	139	114	57.2
Strontium	27.8	0.572	0.286
Thallium	0.258J	0.458	0.0572
Tin	ND	11.4	5.72
Titanium	962	1.14	0.572
Vanadium	45.3	0.572	0.0572
Zinc	60.2	5.72	1.72
Lithium	29.1	2.29	1.14
Phosphorus	139	13.7	6.87
Zirconium	ND	5.72	2.86

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/19/12
Project     : SSFL PHASE 3                     Date Received: 04/19/12
SDG NO.    : 12D175                           Date Extracted: 04/25/12 10:46
Sample ID:  SL-575-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 14:51
Lab Samp ID: D175-06W                         Dilution Factor: 0.976
Lab File ID: 98E03047                         Matrix          : SOIL
Ext Btch ID: IMD037S                          % Moisture     : 14.7
Calib. Ref.: 98E03041                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20300	114	13.7
Antimony	0.250J	0.572	0.114
Arsenic	4.63	0.572	0.229
Barium	151	0.572	0.229
Beryllium	0.800	0.572	0.0572
Boron	4.46J	5.72	2.86
Cadmium	0.539J	0.572	0.0572
Calcium	4750	22.9	11.4
Chromium	24.9	0.572	0.229
Cobalt	9.69	0.572	0.0572
Copper	12.4	0.572	0.229
Iron	22800	114	11.4
Lead	27.9	0.572	0.114
Magnesium	4620	11.4	5.72
Manganese	482	0.572	0.286
Molybdenum	0.551J	0.572	0.0572
Nickel	15.6	0.572	0.229
Potassium	3350	114	34.3
Selenium	ND	0.572	0.229
Silver	0.127J	0.572	0.0572
Sodium	101J	114	57.2
Strontium	35.1	0.572	0.286
Thallium	0.292J	0.458	0.0572
Tin	ND	11.4	5.72
Titanium	793	1.14	0.572
Vanadium	46.6	0.572	0.0572
Zinc	62.7	5.72	1.72
Lithium	18.1	2.29	1.14
Phosphorus	236	13.7	6.87
Zirconium	ND	5.72	2.86

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 04/19/12
Project      : SSFL PHASE 3                     Date Received: 04/19/12
SDG NO.     : 12D175                           Date Extracted: 04/25/12 10:46
Sample ID   : SL-510-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 14:56
Lab Samp ID : D175-07W                         Dilution Factor: 0.971
Lab File ID : 98E03048                         Matrix          : SOIL
Ext Btch ID : IMD037S                          % Moisture     : 16.8
Calib. Ref. : 98E03041                         Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19600	117	14.0
Antimony	0.360J	0.584	0.117
Arsenic	7.42	0.584	0.233
Barium	138	0.584	0.233
Beryllium	0.799	0.584	0.0584
Boron	2.92J	5.84	2.92
Cadmium	0.610	0.584	0.0584
Calcium	4010	23.3	11.7
Chromium	25.8	0.584	0.233
Cobalt	9.25	0.584	0.0584
Copper	57.0	0.584	0.233
Iron	26900	117	11.7
Lead	20.2	0.584	0.117
Magnesium	6160	11.7	5.84
Manganese	309	0.584	0.292
Molybdenum	0.648	0.584	0.0584
Nickel	17.0	0.584	0.233
Potassium	3590	117	35.0
Selenium	ND	0.584	0.233
Silver	0.146J	0.584	0.0584
Sodium	110J	117	58.4
Strontium	34.5	0.584	0.292
Thallium	0.310J	0.467	0.0584
Tin	ND	11.7	5.84
Titanium	1010	1.17	0.584
Vanadium	46.7	0.584	0.0584
Zinc	237	5.84	1.75
Lithium	35.6	2.33	1.17
Phosphorus	504	14.0	7.00
Zirconium	ND	5.84	2.92

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/19/12
Project     : SSFL PHASE 3                     Date Received: 04/19/12
SDG NO.    : 12D175                           Date Extracted: 04/25/12 10:46
Sample ID:  SL-518-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 15:00
Lab Samp ID: D175-08W                         Dilution Factor: 0.990
Lab File ID: 98E03049                        Matrix          : SOIL
Ext Btch ID: IMD037S                          % Moisture     : 3.1
Calib. Ref.: 98E03041                        Instrument ID  : T-198
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14900	102	12.3
Antimony	0.356J	0.511	0.102
Arsenic	4.92	0.511	0.204
Barium	114	0.511	0.204
Beryllium	0.622	0.511	0.0511
Boron	3.39J	5.11	2.55
Cadmium	0.389J	0.511	0.0511
Calcium	2720	20.4	10.2
Chromium	23.4	0.511	0.204
Cobalt	9.14	0.511	0.0511
Copper	25.5	0.511	0.204
Iron	27200	102	10.2
Lead	10.3	0.511	0.102
Magnesium	4070	10.2	5.11
Manganese	421	0.511	0.255
Molybdenum	0.932	0.511	0.0511
Nickel	18.5	0.511	0.204
Potassium	3960	102	30.7
Selenium	ND	0.511	0.204
Silver	ND	0.511	0.0511
Sodium	105	102	51.1
Strontium	22.8	0.511	0.255
Thallium	0.277J	0.409	0.0511
Tin	6.57J	10.2	5.11
Titanium	777	1.02	0.511
Vanadium	39.9	0.511	0.0511
Zinc	46.3	5.11	1.53
Lithium	12.5	2.04	1.02
Phosphorus	200	12.3	6.13
Zirconium	ND	5.11	2.55

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/19/12
Project     : SSFL PHASE 3                     Date Received: 04/19/12
SDG NO.    : 12D175                           Date Extracted: 04/25/12 10:46
Sample ID:  SL-517-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 15:05
Lab Samp ID: D175-09W                         Dilution Factor: 0.995
Lab File ID: 98E03050                        Matrix          : SOIL
Ext Btch ID: IMD037S                          % Moisture     : 7.4
Calib. Ref.: 98E03041                        Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15300	107	12.9
Antimony	0.416J	0.537	0.107
Arsenic	5.14	0.537	0.215
Barium	99.6	0.537	0.215
Beryllium	0.574	0.537	0.0537
Boron	3.32J	5.37	2.69
Cadmium	0.618	0.537	0.0537
Calcium	3130	21.5	10.7
Chromium	21.9	0.537	0.215
Cobalt	6.35	0.537	0.0537
Copper	65.5	0.537	0.215
Iron	21600	107	10.7
Lead	22.1	0.537	0.107
Magnesium	4240	10.7	5.37
Manganese	273	0.537	0.269
Molybdenum	0.712	0.537	0.0537
Nickel	13.4	0.537	0.215
Potassium	3270	107	32.2
Selenium	ND	0.537	0.215
Silver	0.0789J	0.537	0.0537
Sodium	96.6J	107	53.7
Strontium	23.6	0.537	0.269
Thallium	0.226J	0.430	0.0537
Tin	ND	10.7	5.37
Titanium	794	1.07	0.537
Vanadium	40.0	0.537	0.0537
Zinc	395	5.37	1.61
Lithium	15.0	2.15	1.07
Phosphorus	414	12.9	6.45
Zirconium	ND	5.37	2.69

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 04/25/12
SDG NO.    : 12D175                           Date Extracted: 04/25/12 10:46
Sample ID: MBLK1S                             Date Analyzed: 05/03/12 12:43
Lab Samp ID: IMD037SQ                         Dilution Factor: 1
Lab File ID: 98E03019                         Matrix          : SOIL
Ext Btch ID: IMD037S                           % Moisture     : NA
Calib. Ref.: 98E03017                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D175  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMD037SQ IMD037SX IMD037SY  
LAB FILE ID: 98E03019 98E03020 98E03021  
DATIME EXTRACTD: 04/25/1210:46 04/25/1210:46 04/25/1210:46 DATE COLLECTED: NA  
DATIME ANALYZD: 05/03/1212:43 05/03/1212:48 05/03/1212:52 DATE RECEIVED: 04/25/12  
PREP. BATCH: NA NA NA  
CALIB. REF: 98E03017 98E03017 98E03017

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2600	104	2500	2540	102	2	80-120	20
Antimony	ND	25.0	25.6	103	25.0	25.8	103	1	80-120	20
Arsenic	ND	25.0	25.3	101	25.0	24.8	99	2	80-120	20
Barium	ND	25.0	25.4	102	25.0	25.7	103	1	80-120	20
Beryllium	ND	25.0	25.5	102	25.0	25.4	101	1	80-120	20
Boron	ND	25.0	26.0	104	25.0	25.6	102	1	80-120	20
Cadmium	ND	25.0	25.0	100	25.0	25.1	100	0	80-120	20
Calcium	ND	2500	2670	107	2500	2690	107	1	80-120	20
Chromium	ND	25.0	25.5	102	25.0	25.0	100	2	80-120	20
Cobalt	ND	25.0	25.7	103	25.0	25.5	102	1	80-120	20
Copper	ND	25.0	25.4	102	25.0	25.0	100	2	80-120	20
Iron	ND	2500	2640	106	2500	2620	105	1	80-120	20
Lead	ND	25.0	25.6	102	25.0	25.6	102	0	80-120	20
Magnesium	ND	2500	2600	104	2500	2560	102	2	80-120	20
Manganese	ND	25.0	26.0	104	25.0	25.6	103	2	80-120	20
Molybdenum	ND	25.0	25.0	100	25.0	24.9	100	0	80-120	20
Nickel	ND	25.0	25.2	101	25.0	24.7	99	2	80-120	20
Potassium	ND	2500	2660	107	2500	2650	106	1	80-120	20
Selenium	ND	25.0	24.8	99	25.0	24.5	98	1	80-120	20
Silver	ND	25.0	25.1	101	25.0	25.6	102	2	80-120	20
Sodium	ND	2500	2590	104	2500	2570	103	1	80-120	20
Strontium	ND	25.0	25.9	103	25.0	25.6	103	1	80-120	20
Thallium	ND	25.0	26.1	104	25.0	25.6	102	2	80-120	20
Tin	ND	25.0	28.1	112	25.0	27.9	111	1	80-120	20
Titanium	ND	25.0	26.0	104	25.0	25.5	102	2	80-120	20
Vanadium	ND	25.0	25.4	102	25.0	25.1	100	1	80-120	20
Zinc	ND	50.0	50.0	100	50.0	51.7	103	3	80-120	20
Lithium	ND	25.0	25.9	104	25.0	26.0	104	0	80-120	20
Phosphorus	ND	250	245	98	250	242	97	1	80-120	20
Zirconium	ND	25.0	25.4	101	25.0	24.9	100	2	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D175  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 15.7  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-502-SA5C-SB-0.0-0.5  
CONTROL NO.: D191-02W D191-02A  
LAB FILE ID: 98E03025 98E03024  
DATIME EXTRACTD: 04/25/1210:46 04/25/1210:46 DATE COLLECTED: 04/20/12  
DATIME ANALYZD: 05/03/1213:10 05/03/1213:06 DATE RECEIVED: 04/20/12  
PREP. BATCH: NA NA  
CALIB. REF: 98E03017 98E03017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	20000	2970	22700	94	75-125
Antimony	0.222J	29.7	30.2	101	75-125
Arsenic	5.69	29.7	33.4	94	75-125
Barium	120	29.7	150	102	75-125
Beryllium	0.765	29.7	30.1	99	75-125
Boron	3.73J	29.7	33.1	99	75-125
Cadmium	0.350J	29.7	29.5	98	75-125
Calcium	3760	2970	6670	98	75-125
Chromium	23.4	29.7	50.4	91	75-125
Cobalt	6.79	29.7	33.9	92	75-125
Copper	13.2	29.7	39.2	88	75-125
Iron	22400	2970	25400	98	75-125
Lead	12.1	29.7	41.8	100	75-125
Magnesium	4640	2970	7490	96	75-125
Manganese	297	29.7	325	94	75-125
Molybdenum	0.492J	29.7	30.0	100	75-125
Nickel	13.7	29.7	39.9	88	75-125
Potassium	3470	2970	6550	104	75-125
Selenium	ND	29.7	28.7	97	75-125
Silver	0.390J	29.7	29.7	99	75-125
Sodium	77.6J	2970	2860	94	75-125
Strontium	28.7	29.7	56.9	95	75-125
Thallium	0.273J	29.7	29.8	100	75-125
Tin	ND	29.7	33.8	114	75-125
Titanium	856	29.7	889	112	75-125
Vanadium	42.8	29.7	70.0	92	75-125
Zinc	58.5	59.3	112	90	75-125
Lithium	23.5	29.7	54.4	104	75-125
Phosphorus	241	297	532	98	75-125
Zirconium	ND	29.7	29.8	100	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D175  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 15.7  
 DILUTION FACTOR: 1.00 5.00  
 SAMPLE ID: SL-502-SA5C-SB SL-502-SA5C-SB  
 EMAX SAMP ID: D191-02W D191-02J  
 LAB FILE ID: 98E03025 98E03026  
 DATE EXTRACTED: 04/25/1210:46 04/25/1210:46 DATE COLLECTED: 04/20/12  
 DATE ANALYZED: 05/03/1213:10 05/03/1213:15 DATE RECEIVED: 04/20/12  
 PREP. BATCH: IMD037S IMD037S  
 CALIB. REF: 98E03017 98E03017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	20000	20400	2	10
Antimony	0.222J	ND	NA	10
Arsenic	5.69	5.80	2	10
Barium	120	113	6	10
Beryllium	0.765	0.749J	NA	10
Boron	3.73J	ND	NA	10
Cadmium	0.350J	0.312J	NA	10
Calcium	3760	3920	4	10
Chromium	23.4	24.3	4	10
Cobalt	6.79	7.15	5	10
Copper	13.2	14.3	9	10
Iron	22400	23700	6	10
Lead	12.1	11.9	2	10
Magnesium	4640	4750	2	10
Manganese	297	315	6	10
Molybdenum	0.492J	0.517J	NA	10
Nickel	13.7	14.7	7	10
Potassium	3470	3550	2	10
Selenium	ND	ND	0	10
Silver	0.390J	0.384J	NA	10
Sodium	77.6J	ND	NA	10
Strontium	28.7	28.1	2	10
Thallium	0.273J	ND	NA	10
Tin	ND	ND	0	10
Titanium	856	848	1	10
Vanadium	42.8	43.8	2	10
Zinc	58.5	64.5	10	10
Lithium	23.5	22.2	5	10
Phosphorus	241	243	1	10
Zirconium	ND	ND	0	10

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D175  
=====

Matrix : WATER  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLE001WB	ND	1	NA	0.200	0.100	05/02/1217:26	NA	NE02004	NE02003	PLE001W	NA	NA
LCS1W	PLE001WL	1.00	1	NA	0.200	0.100	05/02/1217:40	NA	NE02005	NE02003	PLE001W	NA	NA
LCD1W	PLE001WC	0.958	1	NA	0.200	0.100	05/02/1217:54	NA	NE02006	NE02003	PLE001W	NA	NA
EB-041912	D175-01	ND	1	NA	0.200	0.100	05/02/1219:19	NA	NE02012	NE02003	PLE001W	04/19/1213:00	04/19/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D175  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLE001WB PLE001WL PLE001WC  
LAB FILE ID: NE02004 NE02005 NE02006  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/02/1217:26 05/02/1217:40 05/02/1217:54 DATE RECEIVED: NA  
PREP. BATCH: PLE001W PLE001W PLE001W  
CALIB. REF: NE02003 NE02003 NE02003

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	1.00	100	1.00	0.958	96	5	85-115	20

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D175  
=====

Matrix : SOIL  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLD006SB	ND	1	NA	5.00	2.50	04/27/1212:29	04/25/1214:44	ND27016	ND27014	PLD006S	NA	04/25/12
LCS1S	PLD006SL	24.6	1	NA	5.00	2.50	04/27/1212:43	04/25/1214:44	ND27017	ND27014	PLD006S	NA	04/25/12
LCD1S	PLD006SC	25.4	1	NA	5.00	2.50	04/27/1212:57	04/25/1214:44	ND27018	ND27014	PLD006S	NA	04/25/12
SL-513-SA5C-SB-0.0-0.5	D175-02	ND	1	14.4	5.84	2.92	04/27/1213:11	04/25/1214:44	ND27019	ND27014	PLD006S	04/19/1210:50	04/19/12
SL-515-SA5C-SB-0.0-0.5	D175-03	ND	1	10.0	5.56	2.78	04/27/1213:30	04/25/1214:44	ND27020	ND27014	PLD006S	04/19/1210:10	04/19/12
SL-575-SA5C-SB-0.0-0.5	D175-06	ND	1	14.7	5.86	2.93	04/27/1213:44	04/25/1214:44	ND27021	ND27014	PLD006S	04/19/1211:15	04/19/12
SL-510-SA5C-SB-0.0-0.5	D175-07	ND	1	16.8	6.01	3.00	04/27/1213:59	04/25/1214:44	ND27022	ND27014	PLD006S	04/19/1214:35	04/19/12
SL-518-SA5C-SB-0.0-0.5	D175-08	ND	1	3.1	5.16	2.58	04/27/1214:45	04/25/1214:44	ND27024	ND27014	PLD006S	04/19/1214:00	04/19/12
SL-517-SA5C-SB-0.0-0.5	D175-09	ND	1	7.4	5.40	2.70	04/27/1215:00	04/25/1214:44	ND27025	ND27014	PLD006S	04/19/1215:00	04/19/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D175  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLD006SB PLD006SL PLD006SC  
LAB FILE ID: ND27016 ND27017 ND27018  
DATE EXTRACTED: 04/25/1214:44 04/25/1214:44 04/25/1214:44 DATE COLLECTED: NA  
DATE ANALYZED: 04/27/1212:29 04/27/1212:43 04/27/1212:57 DATE RECEIVED: 04/25/12  
PREP. BATCH: PLD006S PLD006S PLD006S  
CALIB. REF: ND27014 ND27014 ND27014

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	24.6	98	25.0	25.4	101	3	85-115	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12D175  
 =====

Matrix : WATER  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCD021WB	ND	1	NA	0.200	0.100	04/20/1209:38	NA	ID20003	ID20001	HCD021W	NA	NA
MBLK1W	HCD021WQ	ND	1	NA	0.200	0.100	04/20/1209:59	NA	ID20004	ID20001	HCD021W	NA	NA
LCS1W	HCD021WL	1.82	1	NA	0.200	0.100	04/20/1210:41	NA	ID20007	ID20001	HCD021W	NA	NA
LCS1W	HCD021WX	1.98	1	NA	0.200	0.100	04/20/1211:31	NA	ID20008	ID20001	HCD021W	NA	NA
LCD1W	HCD021WC	1.95	1	NA	0.200	0.100	04/20/1211:41	NA	ID20009	ID20001	HCD021W	NA	NA
LCD1W	HCD021WY	2.11	1	NA	0.200	0.100	04/20/1211:52	NA	ID20010	ID20001	HCD021W	NA	NA
EB-041912	D175-01	ND	1	NA	0.200	0.100	04/20/1210:10	NA	ID20005	ID20001	HCD021W	04/19/1213:00	04/19/12
EB-041912	D175-01R	ND	1	NA	0.200	0.100	04/20/1210:20	NA	ID20006	ID20001	HCD021W	04/19/1213:00	04/19/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D175  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCD021WB HCD021WL HCD021WC  
LAB FILE ID: ID20003 ID20007 ID20009  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 04/20/1209:38 04/20/1210:41 04/20/1211:41 DATE RECEIVED: NA  
PREP. BATCH: HCD021W HCD021W HCD021W  
CALIB. REF: ID20001 ID20001 ID20001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.82	91	2.00	1.95	98	7	80-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D175  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCD021WQ HCD021WX HCD021WY  
LAB FILE ID: ID20004 ID20008 ID20010  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 04/20/1209:59 04/20/1211:31 04/20/1211:52 DATE RECEIVED: NA  
PREP. BATCH: HCD021W HCD021W HCD021W  
CALIB. REF: ID20001 ID20001 ID20001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.98	99	2.00	2.11	105	6	80-120	20

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D175  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB-041912	D175-01	5.79	1	NA	NA	04/19/1218:56	NA	12PHD022W01	PHD022W	PHD022W	04/19/1213:00	04/19/12
EB-041912DUP	D175-01D	5.76	1	NA	NA	04/19/1218:58	NA	12PHD022W02	PHD022W	PHD022W	04/19/1213:00	04/19/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.:	12D175	DATE RECEIVED:	04/19/12
SAMPLE ID:	EB-041912DUP	DATE EXTRACTED:	NA
CONTROL NO.:	D175-01D	DATE ANALYZED:	04/19/1218:58

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	5.79	5.76	0.03	0.10

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D175  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL	MDL	Analysis	Extraction		CAL REF	PREP BATCH	Collection	Received
			(pH Unit)	(pH Unit)	(pH Unit)		DATETIME	DATETIME	LFID			DATETIME	DATETIME
SL-513-SA5C-SB-0.0-0.5	D175-02	7.38	1	NA	NA	NA	04/20/1217:14	04/20/1217:14	12PHD023S01	PHD023S	PHD023S	04/19/1210:50	04/19/12
SL-515-SA5C-SB-0.0-0.5	D175-03	6.86	1	NA	NA	NA	04/20/1217:15	04/20/1217:14	12PHD023S02	PHD023S	PHD023S	04/19/1210:10	04/19/12
SL-516-SA5C-SB-0.0-0.5	D175-04	7.02	1	NA	NA	NA	04/20/1217:17	04/20/1217:14	12PHD023S03	PHD023S	PHD023S	04/19/1209:15	04/19/12
SL-516-SA5C-SB-4.0-5.0	D175-05	7.11	1	NA	NA	NA	04/20/1217:20	04/20/1217:14	12PHD023S04	PHD023S	PHD023S	04/19/1209:40	04/19/12
SL-575-SA5C-SB-0.0-0.5	D175-06	7.38	1	NA	NA	NA	04/20/1217:23	04/20/1217:14	12PHD023S05	PHD023S	PHD023S	04/19/1211:15	04/19/12
SL-510-SA5C-SB-0.0-0.5	D175-07	6.63	1	NA	NA	NA	04/20/1217:24	04/20/1217:14	12PHD023S06	PHD023S	PHD023S	04/19/1214:35	04/19/12
SL-518-SA5C-SB-0.0-0.5	D175-08	5.77	1	NA	NA	NA	04/20/1217:26	04/20/1217:14	12PHD023S07	PHD023S	PHD023S	04/19/1214:00	04/19/12
SL-517-SA5C-SB-0.0-0.5	D175-09	6.55	1	NA	NA	NA	04/20/1217:28	04/20/1217:14	12PHD023S08	PHD023S	PHD023S	04/19/1215:00	04/19/12

METHOD 7470A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D175  
=====

Matrix : WATER  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGE013WB	ND	1	NA	0.000500	0.000100	05/15/1217:07	05/15/1212:30	M47E012010	M47E012008	HGE013W	NA	05/15/12
LCS1W	HGE013WL	0.00517	1	NA	0.000500	0.000100	05/15/1217:09	05/15/1212:30	M47E012011	M47E012008	HGE013W	NA	05/15/12
LCD1W	HGE013WC	0.00518	1	NA	0.000500	0.000100	05/15/1217:11	05/15/1212:30	M47E012012	M47E012008	HGE013W	NA	05/15/12
EB-041912	D175-01	ND	1	NA	0.000500	0.000100	05/15/1217:25	05/15/1212:30	M47E012018	M47E012008	HGE013W	04/19/12	04/19/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D175  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGE013WB HGE013WL HGE013WC  
LAB FILE ID: M47E012010 M47E012011 M47E012012  
DATIME EXTRCTD: 05/15/1212:30 05/15/1212:30 05/15/1212:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/15/1217:07 05/15/1217:09 05/15/1217:11 DATE RECEIVED: 05/15/12  
PREP. BATCH: HGE013W HGE013W HGE013W  
CALIB. REF: M47E012008 M47E012008 M47E012008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00517	103	.005	.00518	104	0	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D175

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE009SB	ND	1	NA	0.100	0.0500	05/11/1217:08	05/11/1213:25	M47E010041	M47E010032	HGE009S	NA	05/11/12
LCS1S	HGE009SL	0.870	1	NA	0.100	0.0500	05/11/1217:10	05/11/1213:25	M47E010042	M47E010032	HGE009S	NA	05/11/12
LCD1S	HGE009SC	0.868	1	NA	0.100	0.0500	05/11/1217:12	05/11/1213:25	M47E010043	M47E010032	HGE009S	NA	05/11/12
SL-513-SA5C-SB-0.0-0.5	D175-02	ND	1.00	14.4	0.117	0.0584	05/11/1217:47	05/11/1213:25	M47E010059	M47E010056	HGE009S	04/19/12	04/19/12
SL-515-SA5C-SB-0.0-0.5	D175-03	ND	1.00	10.0	0.111	0.0556	05/11/1217:50	05/11/1213:25	M47E010060	M47E010056	HGE009S	04/19/12	04/19/12
SL-516-SA5C-SB-0.0-0.5	D175-04	0.310	0.992	14.1	0.115	0.0577	05/11/1217:52	05/11/1213:25	M47E010061	M47E010056	HGE009S	04/19/12	04/19/12
SL-516-SA5C-SB-4.0-5.0	D175-05	ND	0.987	13.1	0.114	0.0568	05/11/1217:54	05/11/1213:25	M47E010062	M47E010056	HGE009S	04/19/12	04/19/12
SL-575-SA5C-SB-0.0-0.5	D175-06	ND	0.992	14.7	0.116	0.0581	05/11/1217:56	05/11/1213:25	M47E010063	M47E010056	HGE009S	04/19/12	04/19/12
SL-510-SA5C-SB-0.0-0.5	D175-07	0.156	0.985	16.8	0.118	0.0592	05/11/1217:58	05/11/1213:25	M47E010064	M47E010056	HGE009S	04/19/12	04/19/12
SL-518-SA5C-SB-0.0-0.5	D175-08	ND	1.00	3.1	0.103	0.0516	05/11/1218:01	05/11/1213:25	M47E010065	M47E010056	HGE009S	04/19/12	04/19/12
SL-517-SA5C-SB-0.0-0.5	D175-09	0.0846J	0.988	7.4	0.107	0.0533	05/11/1218:03	05/11/1213:25	M47E010066	M47E010056	HGE009S	04/19/12	04/19/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D175  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE009SB HGE009SL HGE009SC  
LAB FILE ID: M47E010041 M47E010042 M47E010043  
DATIME EXTRCTD: 05/11/1213:25 05/11/1213:25 05/11/1213:25 DATE COLLECTED: NA  
DATIME ANALYZD: 05/11/1217:08 05/11/1217:10 05/11/1217:12 DATE RECEIVED: 05/11/12  
PREP. BATCH: HGE009S HGE009S HGE009S  
CALIB. REF: M47E010032 M47E010032 M47E010032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.87	104	.833	.868	104	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D175  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 13.9  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-514-SA5C-SB-0.0-0.5  
CONTROL NO.: D155-07 D155-07A  
LAB FILE ID: M47E010047 M47E010046  
DATIME EXTRCTD: 05/11/1213:25 05/11/1213:25 DATE COLLECTED: 04/17/12  
DATIME ANALYZD: 05/11/1217:20 05/11/1217:18 DATE RECEIVED: 04/17/12  
PREP. BATCH: HGE009S HGE009S  
CALIB. REF: M47E010044 M47E010044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.963	1.03	107	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D175  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 13.9  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-514-SA5C-SB-0.0- SL-514-SA5C-SB-0.0-  
 EMAX SAMP ID: D155-07 D155-07J  
 LAB FILE ID: M47E010047 M47E010048  
 DATE EXTRACTED: 05/11/1213:25 05/11/1213:25 DATE COLLECTED: 04/17/12  
 DATE ANALYZED: 05/11/1217:20 05/11/1217:23 DATE RECEIVED: 04/17/12  
 PREP. BATCH: HGE009S HGE009S  
 CALIB. REF: M47E010044 M47E010044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-501-SA5C-SB-0.0-0.5            Date Analyzed: 05/03/12 17:08
Lab Samp ID: D191-01                           Dilution Factor: 1
Lab File ID: REL096                            Matrix          : SOIL
Ext Btch ID: SVE001S                           % Moisture     : 9.7
Calib. Ref.: RDL204                            Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	3.4J	11	2.8
BENZO (A) PYRENE	8.1J	11	2.8
BENZO (B) FLUORANTHENE	17	11	2.8
BENZO (K) FLUORANTHENE	3.2J	11	2.8
BENZO (G, H, I) PERYLENE	18	11	2.8
CHRYSENE	7.2J	11	2.8
DIBENZO (A, H) ANTHRACENE	3.2J	11	2.8
FLUORANTHENE	7.9J	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	17	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	5.2J	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	6.3J	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	18	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	215	369.1	58.3	40-130
2-FLUOROBIPHENYL	210	369.1	57.0	45-130
TERPHENYL-D14	318	369.1	86.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-502-SA5C-SB-0.0-0.5            Date Analyzed: 05/03/12 17:34
Lab Samp ID: D191-02                           Dilution Factor: 1
Lab File ID: REL097                             Matrix          : SOIL
Ext Btch ID: SVE001S                           % Moisture     : 15.7
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	3.0
ACENAPHTHYLENE	ND	12	3.0
ANTHRACENE	ND	12	3.0
BENZO (A) ANTHRACENE	3.1J	12	3.0
BENZO (A) PYRENE	ND	12	3.0
BENZO (B) FLUORANTHENE	7.4J	12	3.0
BENZO (K) FLUORANTHENE	ND	12	3.0
BENZO (G, H, I) PERYLENE	5.0J	12	3.0
CHRYSENE	4.9J	12	3.0
DIBENZO (A, H) ANTHRACENE	ND	12	3.0
FLUORANTHENE	12J	12	3.0
FLUORENE	ND	12	3.0
INDENO (1, 2, 3-CD) PYRENE	5.0J	12	3.0
NAPHTHALENE	ND	12	3.0
PHENANTHRENE	5.0J	12	3.0
2-METHYLNAPHTHALENE	ND	12	3.0
1-METHYLNAPHTHALENE	ND	12	3.0
N-NITROSODIMETHYLAMINE	ND	12	3.0
PYRENE	7.9J	12	3.0
AZOBENZENE	ND	5.9	3.0
BENZO (E) PYRENE	5.4J	5.9	3.0
BIPHENYL	ND	5.9	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	251	395.4	63.4	40-130
2-FLUOROBIPHENYL	237	395.4	60.0	45-130
TERPHENYL-D14	355	395.4	89.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-802-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 18:01
Lab Samp ID: D191-03                           Dilution Factor: 1
Lab File ID: REL098                             Matrix          : SOIL
Ext Btch ID: SVE001S                           % Moisture     : 13.0
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	4.0J	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	7.1J	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	4.3J	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	4.8J	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	3.0J	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	254	383.1	66.3	40-130
2-FLUOROBIPHENYL	229	383.1	59.6	45-130
TERPHENYL-D14	316	383.1	82.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 05/01/12 11:42
Sample ID    : SL-507-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 20:15
Lab Samp ID  : D191-04                           Dilution Factor: 1
Lab File ID  : REL103                            Matrix          : SOIL
Ext Btch ID  : SVE001S                          % Moisture     : 9.4
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	2.8J	11	2.8
BENZO (A) PYRENE	2.8J	11	2.8
BENZO (B) FLUORANTHENE	5.9J	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	3.3J	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	5.6J	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	4.4J	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	6.4	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	232	367.9	63.1	40-130
2-FLUOROBIPHENYL	243	367.9	66.1	45-130
TERPHENYL-D14	359	367.9	97.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 05/01/12 11:42
Sample ID    : SL-508-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 20:41
Lab Samp ID  : D191-05                          Dilution Factor: 1
Lab File ID  : REL104                           Matrix          : SOIL
Ext Btch ID  : SVE001S                          % Moisture     : 8.5
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	5.0J	11	2.7
BENZO (B) FLUORANTHENE	9.5J	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	2.8J	11	2.7
CHRYSENE	5.1J	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	9.2J	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	3.0J	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	7.8J	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	7.2	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	237	364.3	65.0	40-130
2-FLUOROBIPHENYL	244	364.3	67.1	45-130
TERPHENYL-D14	341	364.3	93.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-509-SA5C-SB-0.0-0.5            Date Analyzed: 05/03/12 18:28
Lab Samp ID: D191-06                           Dilution Factor: 1
Lab File ID: REL099                             Matrix          : SOIL
Ext Btch ID: SVE001S                            % Moisture     : 7.2
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	3.0J	11	2.7
BENZO (A) PYRENE	3.1J	11	2.7
BENZO (B) FLUORANTHENE	5.4J	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	3.1J	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	6.2J	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	5.6J	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	3.1J	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	144	359.2	40.0	40-130
2-FLUOROBIPHENYL	153	359.2	42.6*	45-130
TERPHENYL-D14	308	359.2	85.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-574-SA5C-SB-0.0-0.5            Date Analyzed: 05/03/12 21:08
Lab Samp ID: D191-07                           Dilution Factor: 2
Lab File ID: REL105                             Matrix          : SOIL
Ext Btch ID: SVE001S                            % Moisture      : 14.3
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	23	5.8
ACENAPHTHYLENE	ND	23	5.8
ANTHRACENE	ND	23	5.8
BENZO (A) ANTHRACENE	8.0J	23	5.8
BENZO (A) PYRENE	ND	23	5.8
BENZO (B) FLUORANTHENE	8.4J	23	5.8
BENZO (K) FLUORANTHENE	ND	23	5.8
BENZO (G, H, I) PERYLENE	ND	23	5.8
CHRYSENE	ND	23	5.8
DIBENZO (A, H) ANTHRACENE	ND	23	5.8
FLUORANTHENE	ND	23	5.8
FLUORENE	ND	23	5.8
INDENO (1, 2, 3-CD) PYRENE	ND	23	5.8
NAPHTHALENE	ND	23	5.8
PHENANTHRENE	ND	23	5.8
2-METHYLNAPHTHALENE	ND	23	5.8
1-METHYLNAPHTHALENE	ND	23	5.8
N-NITROSODIMETHYLAMINE	ND	23	5.8
PYRENE	ND	23	5.8
AZOBENZENE	ND	12	5.8
BENZO (E) PYRENE	11J	12	5.8
BIPHENYL	ND	12	5.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	229	388.9	58.9	40-130
2-FLUOROBIPHENYL	227	388.9	58.4	45-130
TERPHENYL-D14	328	388.9	84.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.    : 12D191                           Date Extracted: 05/01/12 11:42
Sample ID    : MBLK1S                           Date Analyzed: 05/03/12 14:29
Lab Samp ID  : SVE001SB                        Dilution Factor: 1
Lab File ID  : REL090                           Matrix          : SOIL
Ext Btch ID  : SVE001S                          % Moisture     : NA
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	241	333.3	72.3	40-130
2-FLUOROBIPHENYL	253	333.3	76.0	45-130
TERPHENYL-D14	299	333.3	89.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D191  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE001SB SVE001SL SVE001SC  
LAB FILE ID: REL090 REL088 REL089  
DATE EXTRACTED: 05/01/1211:42 05/01/1211:42 05/01/1211:42 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1214:29 05/03/1213:40 05/03/1214:03 DATE RECEIVED: 05/01/12  
PREP. BATCH: SVE001S SVE001S SVE001S  
CALIB. REF: RDL204 RDL204 RDL204

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	321	96	333	302	91	6	10-130	50
Acenaphthylene	ND	333	351	105	333	327	98	7	20-130	50
Anthracene	ND	333	300	90	333	283	85	6	20-130	50
Benzo (a) anthracene	ND	333	372	112	333	366	110	2	30-130	50
Benzo (a) pyrene	ND	333	407	122	333	394	118	3	30-130	50
Benzo (b) fluoranthene	ND	333	406	122	333	428	128	5	40-130	50
Benzo (k) fluoranthene	ND	333	375	112	333	375	113	0	30-140	50
Benzo (g, h, i) perylene	ND	333	457	137	333	444	133	3	30-140	50
Chrysene	ND	333	348	104	333	341	102	2	30-140	50
Dibenzo (a, h) anthracene	ND	333	466	140	333	452	136	3	40-140	50
Fluoranthene	ND	333	382	115	333	374	112	2	30-130	50
Fluorene	ND	333	340	102	333	319	96	6	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	466	140	333	452	136	3	20-160	50
Naphthalene	ND	333	311	93	333	289	87	7	10-130	50
Phenanthrene	ND	333	309	93	333	286	86	8	20-130	50
2-Methylnaphthalene	ND	333	351	105	333	326	98	7	30-150	50
1-Methylnaphthalene	ND	333	344	103	333	320	96	7	30-150	50
N-Nitrosodimethylamine	ND	333	328	99	333	295	89	11	30-150	50
Pyrene	ND	333	350	105	333	343	103	2	20-150	50
Azobenzene	ND	333	272	82	333	254	76	7	30-150	50
Benzo (e) pyrene	ND	333	343	103	333	397	119	14	30-150	50
Biphenyl	ND	333	265	79	333	278	83	5	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	254	76	333	246	74	40-130
2-Fluorobiphenyl	333	269	81	333	264	79	45-130
Terphenyl-d14	333	318	95	333	330	99	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D191  
METHOD: METHOD 3550B/8270C SIM

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MATRIX: SOIL % MOISTURE: 15.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-502-SA5C-SB-0.0-0.5  
LAB SAMP ID: D191-02 D191-02M D191-02S  
LAB FILE ID: REL097 REL094 REL095  
DATE EXTRACTED: 05/01/1211:42 05/01/1211:42 05/01/1211:42 DATE COLLECTED: 04/20/12  
DATE ANALYZED: 05/03/1217:34 05/03/1216:15 05/03/1216:41 DATE RECEIVED: 04/20/12  
PREP. BATCH: SVE001S SVE001S SVE001S  
CALIB. REF: RDL204 RDL204 RDL204

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	395	290	73	395	255	65	13	10-130	50
Acenaphthylene	ND	395	316	80	395	283	71	11	20-130	50
Anthracene	ND	395	309	78	395	316	80	2	20-130	50
Benzo (a) anthracene	3.06J	395	412	104	395	425	107	3	30-130	50
Benzo (a) pyrene	ND	395	432	109	395	439	111	2	30-130	50
Benzo (b) fluoranthene	7.43J	395	468	117	395	471	117	1	30-130	50
Benzo (k) fluoranthene	ND	395	425	108	395	434	110	2	30-130	50
Benzo (g, h, i) perylene	4.99J	395	414	104	395	444	111	7	30-140	50
Chrysene	4.85J	395	414	103	395	424	106	2	20-130	50
Dibenzo (a, h) anthracene	ND	395	449	114	395	469	119	4	30-130	50
Fluoranthene	11.5J	395	428	105	395	450	111	5	30-150	50
Fluorene	ND	395	315	80	395	303	77	4	20-130	50
Indeno (1, 2, 3-cd) pyrene	5.04J	395	435	109	395	455	114	4	20-160	50
Naphthalene	ND	395	256	65	395	215	54	17	10-130	50
Phenanthrene	4.99J	395	324	81	395	336	84	4	20-130	50
2-Methylnaphthalene	ND	395	304	77	395	250	63	19	30-150	50
1-Methylnaphthalene	ND	395	301	76	395	247	62	20	30-150	50
N-Nitrosodimethylamine	ND	395	308	78	395	270	68	13	20-150	50
Pyrene	7.88J	395	382	95	395	403	100	5	10-160	50
Azobenzene	ND	395	263	67	395	251	63	5	30-150	50
Benzo (e) pyrene	5.40J	395	436	109	395	407	102	7	30-150	50
Biphenyl	ND	395	244	62	395	197	50	21	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	395	235	60	395	195	49	40-130
2-Fluorobiphenyl	395	223	56	395	181	46	45-130
Terphenyl-d14	395	334	85	395	326	82	45-135

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 04/20/12
Project    : SSFL PHASE 3                       Date Received: 04/20/12
Batch No.  : 12D191                             Date Extracted: 04/30/12 15:43
Sample ID  : SL-501-SA5C-SB-0.0-0.5           Date Analyzed: 05/01/12 20:47
Lab Samp ID: D191-01                           Dilution Factor: 1
Lab File ID: KE01012A                          Matrix          : SOIL
Ext Btch ID: CPD070S                            % Moisture     : 9.7
Calib. Ref.: KE01002A                          Instrument ID   : GCT071
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	41   (34)	22	11   11	
AROCLOR 1260	(28)   41	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.66)   13.51	14.76	(106)   91.5	45-120
TETRACHLORO-M-XYLENE	(16.14)   9.706	14.76	(109)   65.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 04/20/12
Project     : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.   : 12D191                           Date Extracted: 04/30/12 15:43
Sample ID   : SL-502-SA5C-SB-0.0-0.5          Date Analyzed: 05/01/12 21:40
Lab Samp ID : D191-02                           Dilution Factor: 1
Lab File ID : KE01013A                         Matrix          : SOIL
Ext Btch ID : CPD070S                          % Moisture     : 15.7
Calib. Ref. : KE01002A                        Instrument ID   : GCT071
=====
  
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	47	24   24	
AROCLOR 5442	(ND)   ND	47	24   24	
AROCLOR 5460	(ND)   ND	47	24   24	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.66)   12.11	15.81	(105)   76.6	45-120
TETRACHLORO-M-XYLENE	(15.93)   10.71	15.81	(101)   67.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-802-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 15:59
Lab Samp ID  : D191-03                          Dilution Factor: 1
Lab File ID  : KE01032A                        Matrix          : SOIL
Ext Btch ID  : CPD070S                          % Moisture     : 13.0
Calib. Ref.  : KE01029A                        Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	23.13   (14.52)	15.32	151*   (94.8)	45-120
TETRACHLORO-M-XYLENE	(22.96)   15.23	15.32	(150)   99.4	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-507-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 16:52
Lab Samp ID  : D191-04                           Dilution Factor: 1
Lab File ID  : KE01033A                          Matrix          : SOIL
Ext Btch ID  : CPD070S                           % Moisture     : 9.4
Calib. Ref.  : KE01029A                          Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	22.36   (15.83)	14.71	152*   (108)	45-120
TETRACHLORO-M-XYLENE	(22.62)   14.98	14.71	(154)   102	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-508-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 17:45
Lab Samp ID  : D191-05                          Dilution Factor: 1
Lab File ID  : KE01034A                         Matrix          : SOIL
Ext Btch ID  : CPD070S                          % Moisture     : 8.5
Calib. Ref.  : KE01029A                         Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	22.90   (16.13)	14.57	157*   (111)	45-120
TETRACHLORO-M-XYLENE	23.45   (15.37)	14.57	161*   (105)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-509-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 18:38
Lab Samp ID  : D191-06                          Dilution Factor: 1
Lab File ID  : KE01035A                        Matrix          : SOIL
Ext Btch ID  : CPD070S                          % Moisture     : 7.2
Calib. Ref.  : KE01029A                        Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(23.82)   17.93	14.36	(166*)   125*	45-120
TETRACHLORO-M-XYLENE	(22.71)   14.48	14.36	(158)   101	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-574-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 19:31
Lab Samp ID  : D191-07                          Dilution Factor: 1
Lab File ID  : KE01036A                        Matrix          : SOIL
Ext Btch ID  : CPD070S                         % Moisture     : 14.3
Calib. Ref.  : KE01029A                       Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(15.74)   11.38	15.55	(101)   73.2	45-120
TETRACHLORO-M-XYLENE	(17.07)   11.87	15.55	(110)   76.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-633-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 20:25
Lab Samp ID  : D191-08                          Dilution Factor: 1
Lab File ID  : KE01037A                        Matrix          : SOIL
Ext Btch ID  : CPD070S                         % Moisture     : 14.5
Calib. Ref.  : KE01029A                       Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.66)   9.876	15.59	(100)   63.3	45-120
TETRACHLORO-M-XYLENE	(16.53)   12.45	15.59	(106)   79.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-633-SA5C-SB-2.0-3.0          Date Analyzed: 05/02/12 21:18
Lab Samp ID  : D191-09                          Dilution Factor: 1
Lab File ID  : KE01038A                        Matrix          : SOIL
Ext Btch ID  : CPD070S                          % Moisture     : 15.1
Calib. Ref.  : KE01029A                        Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	47	24   24	
AROCLOR 5442	(ND)   ND	47	24   24	
AROCLOR 5460	(ND)   ND	47	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(16.06)   9.995	15.70	(102)   63.7	45-120
TETRACHLORO-M-XYLENE	(15.26)   11.39	15.70	(97.2)   72.5	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-634-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 22:11
Lab Samp ID  : D191-10                          Dilution Factor: 1
Lab File ID  : KE01039A                        Matrix          : SOIL
Ext Btch ID  : CPD070S                         % Moisture     : 15.0
Calib. Ref. : KE01029A                        Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	47	24   24	
AROCLOR 5442	(ND)   ND	47	24   24	
AROCLOR 5460	(ND)   ND	47	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	23.19   (16.37)	15.68	148*   (104)	45-120
TETRACHLORO-M-XYLENE	(24.46)   16.09	15.68	(156)   103	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
Batch No.    : 12D191                           Date Extracted: 04/30/12 15:43
Sample ID    : SL-634-SA5C-SB-2.0-3.0          Date Analyzed: 05/02/12 23:04
Lab Samp ID  : D191-11                          Dilution Factor: 1
Lab File ID  : KE01040A                        Matrix          : SOIL
Ext Btch ID  : CPD070S                          % Moisture     : 16.4
Calib. Ref.  : KE01029A                        Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	48	24   24	
AROCLOR 5442	(ND)   ND	48	24   24	
AROCLOR 5460	(ND)   ND	48	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.48)   10.45	15.94	(103)   65.5	45-120
TETRACHLORO-M-XYLENE	(14.71)   11.12	15.94	(92.3)   69.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D191                           Date Extracted: 04/30/12 15:43
Sample ID    : MBLK1S                           Date Analyzed: 05/01/12 18:08
Lab Samp ID  : 60D070SB                         Dilution Factor: 1
Lab File ID  : KE01009A                         Matrix          : SOIL
Ext Btch ID  : CPD070S                          % Moisture     : NA
Calib. Ref.  : KE01002A                         Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIIPHENYL	22.14   (14.21)	13.33	166*   (107)	45-120
TETRACHLORO-M-XYLENE	(21.00)   16.55	13.33	(158)   124	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D191  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60D070SB 60D070SL 60D070SC  
LAB FILE ID: KE01009A KE01010A KE01011A  
DATE EXTRACTED: 04/30/1215:43 04/30/1215:43 04/30/1215:43 DATE COLLECTED: NA  
DATE ANALYZED: 05/01/1218:08 05/01/1219:01 05/01/1219:54 DATE RECEIVED: 04/30/12  
PREP. BATCH: CPD070S CPD070S CPD070S  
CALIB. REF: KE01002A KE01002A KE01002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(146)   112	(88)   67	167	(149)   129	(89)   77	(2)   14	50-130	50
Aroclor 1260	(ND)   ND	167	169   (173)	101   (104)	167	173   (179)	104   (107)	2   (3)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(89.6)   87.8	(108)   105	83.3	86.0   (90.4)	103   (109)	4   (3)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(14.70)   12.30	(110)   92.2	13.33	(14.82)   11.44	(111)   85.8	45-120
Tetrachloro-m-xylene	13.33	(12.82)   9.740	(96.2)   73.1	13.33	(13.12)   10.44	(98.5)   78.3	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D191  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 15.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-502-SA5C-SB-0.0-0.5  
LAB SAMP ID: D191-02 D191-02M D191-02S  
LAB FILE ID: KE01013A KE01014A KE01015A  
DATE EXTRACTED: 04/30/1215:43 04/30/1215:43 04/30/1215:43 DATE COLLECTED: 04/20/12  
DATE ANALYZED: 05/01/1221:40 05/01/1222:33 05/01/1223:26 DATE RECEIVED: 04/20/12  
PREP. BATCH: CPD070S CPD070S CPD070S  
CALIB. REF: KE01002A KE01002A KE01002A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	198	(178)   135	(90)   68	198	(174)   144	(88)   73	(2)   6	20-160	50
Aroclor 1260	(ND)   ND	198	209   (212)	106   (107)	198	207   (247)	105   (125)	1   (15)	20-160	50
Aroclor 5460	(ND)   ND	98.9	100   (102)	101   (103)	98.9	97.8   (104)	99   (105)	2   (2)	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	15.81	(17.66)   11.51	(112)   72.8	15.81	(17.34)   11.43	(110)   72.3	45-120
Tetrachloro-m-xylene	15.81	(16.94)   13.04	(107)   82.5	15.81	(16.67)   12.56	(105)   79.4	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
SDG NO.     : 12D191                            Date Extracted: 04/25/12 10:46
Sample ID   : SL-501-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 13:19
Lab Samp ID : D191-01W                          Dilution Factor: 0.980
Lab File ID : 98E03027                          Matrix          : SOIL
Ext Btch ID : IMD037S                            % Moisture     : 9.7
Calib. Ref. : 98E03017                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11900	109	13.0
Antimony	0.203J	0.543	0.109
Arsenic	5.04	0.543	0.217
Barium	78.2	0.543	0.217
Beryllium	0.519J	0.543	0.0543
Boron	ND	5.43	2.71
Cadmium	0.437J	0.543	0.0543
Calcium	3160	21.7	10.9
Chromium	17.7	0.543	0.217
Cobalt	5.56	0.543	0.0543
Copper	37.6	0.543	0.217
Iron	18900	109	10.9
Lead	9.77	0.543	0.109
Magnesium	4440	10.9	5.43
Manganese	261	0.543	0.271
Molybdenum	0.393J	0.543	0.0543
Nickel	11.6	0.543	0.217
Potassium	3300	109	32.6
Selenium	ND	0.543	0.217
Silver	1.80	0.543	0.0543
Sodium	73.1J	109	54.3
Strontium	17.6	0.543	0.271
Thallium	0.241J	0.434	0.0543
Tin	ND	10.9	5.43
Titanium	860	1.09	0.543
Vanadium	29.6	0.543	0.0543
Zinc	78.8	5.43	1.63
Lithium	25.8	2.17	1.09
Phosphorus	388	13.0	6.51
Zirconium	ND	5.43	2.71

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/20/12
Project     : SSFL PHASE 3                     Date Received: 04/20/12
SDG NO.    : 12D191                           Date Extracted: 04/25/12 10:46
Sample ID   : SL-502-SA5C-SB-0.0-0.5         Date Analyzed: 05/03/12 13:10
Lab Samp ID: D191-02W                         Dilution Factor: 1.00
Lab File ID: 98E03025                        Matrix          : SOIL
Ext Btch ID: IMD037S                          % Moisture     : 15.7
Calib. Ref.: 98E03017                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20000	119	14.2
Antimony	0.222J	0.593	0.119
Arsenic	5.69	0.593	0.237
Barium	120	0.593	0.237
Beryllium	0.765	0.593	0.0593
Boron	3.73J	5.93	2.97
Cadmium	0.350J	0.593	0.0593
Calcium	3760	23.7	11.9
Chromium	23.4	0.593	0.237
Cobalt	6.79	0.593	0.0593
Copper	13.2	0.593	0.237
Iron	22400	119	11.9
Lead	12.1	0.593	0.119
Magnesium	4640	11.9	5.93
Manganese	297	0.593	0.297
Molybdenum	0.492J	0.593	0.0593
Nickel	13.7	0.593	0.237
Potassium	3470	119	35.6
Selenium	ND	0.593	0.237
Silver	0.390J	0.593	0.0593
Sodium	77.6J	119	59.3
Strontium	28.7	0.593	0.297
Thallium	0.273J	0.474	0.0593
Tin	ND	11.9	5.93
Titanium	856	1.19	0.593
Vanadium	42.8	0.593	0.0593
Zinc	58.5	5.93	1.78
Lithium	23.5	2.37	1.19
Phosphorus	241	14.2	7.12
Zirconium	ND	5.93	2.97

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 04/20/12
Project      : SSFL PHASE 3                     Date Received: 04/20/12
SDG NO.     : 12D191                           Date Extracted: 04/25/12 10:46
Sample ID   : SL-802-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 13:38
Lab Samp ID : D191-03W                         Dilution Factor: 0.980
Lab File ID : 98E03031                        Matrix          : SOIL
Ext Btch ID : IMD037S                          % Moisture     : 13.0
Calib. Ref. : 98E03029                        Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15900	113	13.5
Antimony	0.178J	0.563	0.113
Arsenic	4.85	0.563	0.225
Barium	100	0.563	0.225
Beryllium	0.643	0.563	0.0563
Boron	2.84J	5.63	2.82
Cadmium	0.305J	0.563	0.0563
Calcium	3030	22.5	11.3
Chromium	19.9	0.563	0.225
Cobalt	6.49	0.563	0.0563
Copper	11.3	0.563	0.225
Iron	20600	113	11.3
Lead	9.38	0.563	0.113
Magnesium	4500	11.3	5.63
Manganese	311	0.563	0.282
Molybdenum	0.419J	0.563	0.0563
Nickel	11.8	0.563	0.225
Potassium	3430	113	33.8
Selenium	ND	0.563	0.225
Silver	0.322J	0.563	0.0563
Sodium	70.9J	113	56.3
Strontium	21.7	0.563	0.282
Thallium	0.265J	0.451	0.0563
Tin	ND	11.3	5.63
Titanium	876	1.13	0.563
Vanadium	36.4	0.563	0.0563
Zinc	57.3	5.63	1.69
Lithium	25.0	2.25	1.13
Phosphorus	278	13.5	6.76
Zirconium	ND	5.63	2.82

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/20/12
Project    : SSFL PHASE 3                     Date Received: 04/20/12
SDG NO.    : 12D191                           Date Extracted: 04/25/12 10:46
Sample ID  : SL-507-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 13:42
Lab Samp ID: D191-04W                         Dilution Factor: 0.985
Lab File ID: 98E03032                        Matrix          : SOIL
Ext Btch ID: IMD037S                          % Moisture     : 9.4
Calib. Ref.: 98E03029                        Instrument ID   : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15700	109	13.0
Antimony	0.209J	0.544	0.109
Arsenic	3.91	0.544	0.217
Barium	106	0.544	0.217
Beryllium	0.584	0.544	0.0544
Boron	3.68J	5.44	2.72
Cadmium	0.417J	0.544	0.0544
Calcium	2780	21.7	10.9
Chromium	20.7	0.544	0.217
Cobalt	8.70	0.544	0.0544
Copper	12.8	0.544	0.217
Iron	18900	109	10.9
Lead	10.3	0.544	0.109
Magnesium	4070	10.9	5.44
Manganese	451	0.544	0.272
Molybdenum	0.640	0.544	0.0544
Nickel	13.9	0.544	0.217
Potassium	4180	109	32.6
Selenium	ND	0.544	0.217
Silver	ND	0.544	0.0544
Sodium	72.5J	109	54.4
Strontium	23.9	0.544	0.272
Thallium	0.288J	0.435	0.0544
Tin	ND	10.9	5.44
Titanium	879	1.09	0.544
Vanadium	39.3	0.544	0.0544
Zinc	50.9	5.44	1.63
Lithium	12.8	2.17	1.09
Phosphorus	218	13.0	6.52
Zirconium	ND	5.44	2.72

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/20/12
Project    : SSFL PHASE 3                     Date Received: 04/20/12
SDG NO.    : 12D191                           Date Extracted: 04/25/12 10:46
Sample ID  : SL-508-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 13:47
Lab Samp ID: D191-05W                         Dilution Factor: 0.990
Lab File ID: 98E03033                        Matrix          : SOIL
Ext Btch ID: IMD037S                          % Moisture     : 8.5
Calib. Ref.: 98E03029                        Instrument ID   : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14800	108	13.0
Antimony	0.182J	0.541	0.108
Arsenic	3.02	0.541	0.216
Barium	121	0.541	0.216
Beryllium	0.473J	0.541	0.0541
Boron	3.17J	5.41	2.70
Cadmium	0.326J	0.541	0.0541
Calcium	3780	21.6	10.8
Chromium	17.6	0.541	0.216
Cobalt	7.62	0.541	0.0541
Copper	11.2	0.541	0.216
Iron	18400	108	10.8
Lead	11.7	0.541	0.108
Magnesium	4540	10.8	5.41
Manganese	352	0.541	0.270
Molybdenum	0.419J	0.541	0.0541
Nickel	11.3	0.541	0.216
Potassium	3840	108	32.5
Selenium	ND	0.541	0.216
Silver	ND	0.541	0.0541
Sodium	164	108	54.1
Strontium	25.2	0.541	0.270
Thallium	0.240J	0.433	0.0541
Tin	ND	10.8	5.41
Titanium	972	1.08	0.541
Vanadium	36.5	0.541	0.0541
Zinc	80.9	5.41	1.62
Lithium	14.0	2.16	1.08
Phosphorus	363	13.0	6.49
Zirconium	ND	5.41	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/20/12
Project    : SSFL PHASE 3                     Date Received: 04/20/12
SDG NO.    : 12D191                           Date Extracted: 04/25/12 10:46
Sample ID: SL-509-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 13:52
Lab Samp ID: D191-06W                       Dilution Factor: 0.990
Lab File ID: 98E03034                       Matrix          : SOIL
Ext Btch ID: IMD037S                         % Moisture     : 7.2
Calib. Ref.: 98E03029                       Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14100	107	12.8
Antimony	0.176J	0.533	0.107
Arsenic	3.16	0.533	0.213
Barium	118	0.533	0.213
Beryllium	0.492J	0.533	0.0533
Boron	2.78J	5.33	2.67
Cadmium	0.626	0.533	0.0533
Calcium	2820	21.3	10.7
Chromium	21.3	0.533	0.213
Cobalt	7.38	0.533	0.0533
Copper	12.8	0.533	0.213
Iron	18500	107	10.7
Lead	57.2	0.533	0.107
Magnesium	4280	10.7	5.33
Manganese	331	0.533	0.267
Molybdenum	0.606	0.533	0.0533
Nickel	12.5	0.533	0.213
Potassium	4230	107	32.0
Selenium	ND	0.533	0.213
Silver	ND	0.533	0.0533
Sodium	107	107	53.3
Strontium	21.8	0.533	0.267
Thallium	0.260J	0.427	0.0533
Tin	ND	10.7	5.33
Titanium	967	1.07	0.533
Vanadium	36.9	0.533	0.0533
Zinc	81.1	5.33	1.60
Lithium	12.4	2.13	1.07
Phosphorus	336	12.8	6.40
Zirconium	ND	5.33	2.67

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/20/12
Project     : SSFL PHASE 3                     Date Received: 04/20/12
SDG NO.    : 12D191                           Date Extracted: 04/25/12 10:46
Sample ID:  SL-574-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 13:56
Lab Samp ID: D191-07W                         Dilution Factor: 0.966
Lab File ID: 98E03035                        Matrix          : SOIL
Ext Btch ID: IMD037S                          % Moisture     : 14.3
Calib. Ref.: 98E03029                        Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18300	113	13.5
Antimony	0.523J	0.564	0.113
Arsenic	4.41	0.564	0.225
Barium	121	0.564	0.225
Beryllium	0.709	0.564	0.0564
Boron	5.24J	5.64	2.82
Cadmium	0.381J	0.564	0.0564
Calcium	4660	22.5	11.3
Chromium	22.7	0.564	0.225
Cobalt	8.13	0.564	0.0564
Copper	13.1	0.564	0.225
Iron	22000	113	11.3
Lead	11.9	0.564	0.113
Magnesium	4830	11.3	5.64
Manganese	382	0.564	0.282
Molybdenum	0.576	0.564	0.0564
Nickel	14.9	0.564	0.225
Potassium	4080	113	33.8
Selenium	ND	0.564	0.225
Silver	ND	0.564	0.0564
Sodium	82.7J	113	56.4
Strontium	32.2	0.564	0.282
Thallium	0.302J	0.451	0.0564
Tin	ND	11.3	5.64
Titanium	814	1.13	0.564
Vanadium	44.9	0.564	0.0564
Zinc	58.7	5.64	1.69
Lithium	15.0	2.25	1.13
Phosphorus	265	13.5	6.76
Zirconium	ND	5.64	2.82

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 04/25/12
SDG NO.    : 12D191                             Date Extracted: 04/25/12 10:46
Sample ID  : MBLK1S                             Date Analyzed: 05/03/12 12:43
Lab Samp ID: IMD037SQ                           Dilution Factor: 1
Lab File ID: 98E03019                           Matrix          : SOIL
Ext Btch ID: IMD037S                             % Moisture      : NA
Calib. Ref.: 98E03017                           Instrument ID   : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D191  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMD037SQ IMD037SX IMD037SY  
LAB FILE ID: 98E03019 98E03020 98E03021  
DATIME EXTRACTD: 04/25/1210:46 04/25/1210:46 04/25/1210:46 DATE COLLECTED: NA  
DATIME ANALYZD: 05/03/1212:43 05/03/1212:48 05/03/1212:52 DATE RECEIVED: 04/25/12  
PREP. BATCH: NA NA NA  
CALIB. REF: 98E03017 98E03017 98E03017

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2600	104	2500	2540	102	2	80-120	20
Antimony	ND	25.0	25.6	103	25.0	25.8	103	1	80-120	20
Arsenic	ND	25.0	25.3	101	25.0	24.8	99	2	80-120	20
Barium	ND	25.0	25.4	102	25.0	25.7	103	1	80-120	20
Beryllium	ND	25.0	25.5	102	25.0	25.4	101	1	80-120	20
Boron	ND	25.0	26.0	104	25.0	25.6	102	1	80-120	20
Cadmium	ND	25.0	25.0	100	25.0	25.1	100	0	80-120	20
Calcium	ND	2500	2670	107	2500	2690	107	1	80-120	20
Chromium	ND	25.0	25.5	102	25.0	25.0	100	2	80-120	20
Cobalt	ND	25.0	25.7	103	25.0	25.5	102	1	80-120	20
Copper	ND	25.0	25.4	102	25.0	25.0	100	2	80-120	20
Iron	ND	2500	2640	106	2500	2620	105	1	80-120	20
Lead	ND	25.0	25.6	102	25.0	25.6	102	0	80-120	20
Magnesium	ND	2500	2600	104	2500	2560	102	2	80-120	20
Manganese	ND	25.0	26.0	104	25.0	25.6	103	2	80-120	20
Molybdenum	ND	25.0	25.0	100	25.0	24.9	100	0	80-120	20
Nickel	ND	25.0	25.2	101	25.0	24.7	99	2	80-120	20
Potassium	ND	2500	2660	107	2500	2650	106	1	80-120	20
Selenium	ND	25.0	24.8	99	25.0	24.5	98	1	80-120	20
Silver	ND	25.0	25.1	101	25.0	25.6	102	2	80-120	20
Sodium	ND	2500	2590	104	2500	2570	103	1	80-120	20
Strontium	ND	25.0	25.9	103	25.0	25.6	103	1	80-120	20
Thallium	ND	25.0	26.1	104	25.0	25.6	102	2	80-120	20
Tin	ND	25.0	28.1	112	25.0	27.9	111	1	80-120	20
Titanium	ND	25.0	26.0	104	25.0	25.5	102	2	80-120	20
Vanadium	ND	25.0	25.4	102	25.0	25.1	100	1	80-120	20
Zinc	ND	50.0	50.0	100	50.0	51.7	103	3	80-120	20
Lithium	ND	25.0	25.9	104	25.0	26.0	104	0	80-120	20
Phosphorus	ND	250	245	98	250	242	97	1	80-120	20
Zirconium	ND	25.0	25.4	101	25.0	24.9	100	2	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D191  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 15.7  
DILTN FACTR: 1.00 1.00 0.995  
SAMPLE ID: SL-502-SA5C-SB-0.0-0.5  
CONTROL NO.: D191-02W D191-02M D191-02S  
LAB FILE ID: 98E03025 98E03022 98E03023  
DATIME EXTRACTD: 04/25/1210:46 04/25/1210:46 04/25/1210:46 DATE COLLECTED: 04/20/12  
DATIME ANALYZD: 05/03/1213:10 05/03/1212:57 05/03/1213:01 DATE RECEIVED: 04/20/12  
PREP. BATCH: NA NA NA  
CALIB. REF: 98E03017 98E03017 98E03017

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	20000	2970	23400	117	2950	22900	99	2	75-125	20
Antimony	0.222J	29.7	18.6	62*	29.5	19.7	66*	6	75-125	20
Arsenic	5.69	29.7	33.8	95	29.5	33.6	95	0	75-125	20
Barium	120	29.7	156	121	29.5	156	123	0	75-125	20
Beryllium	0.765	29.7	31.3	103	29.5	31.3	103	0	75-125	20
Boron	3.73J	29.7	32.3	96	29.5	32.1	96	1	75-125	20
Cadmium	0.350J	29.7	29.9	100	29.5	30.4	102	2	75-125	20
Calcium	3760	2970	6700	99	2950	6650	98	1	75-125	20
Chromium	23.4	29.7	52.1	97	29.5	51.8	96	1	75-125	20
Cobalt	6.79	29.7	35.1	96	29.5	34.9	95	1	75-125	20
Copper	13.2	29.7	39.6	89	29.5	40.3	92	2	75-125	20
Iron	22400	2970	26400	133*	2950	25600	108	3	75-125	20
Lead	12.1	29.7	42.4	102	29.5	42.4	103	0	75-125	20
Magnesium	4640	2970	7460	95	2950	7540	98	1	75-125	20
Manganese	297	29.7	354	193*	29.5	338	140*	5	75-125	20
Molybdenum	0.492J	29.7	28.9	96	29.5	29.6	99	2	75-125	20
Nickel	13.7	29.7	41.0	92	29.5	41.3	93	1	75-125	20
Potassium	3470	2970	6510	102	2950	6510	103	0	75-125	20
Selenium	ND	29.7	29.2	99	29.5	28.9	98	1	75-125	20
Silver	0.390J	29.7	30.3	101	29.5	30.9	103	2	75-125	20
Sodium	77.6J	2970	2900	95	2950	2900	96	0	75-125	20
Strontium	28.7	29.7	58.8	101	29.5	57.8	98	2	75-125	20
Thallium	0.273J	29.7	30.0	100	29.5	30.5	102	2	75-125	20
Tin	ND	29.7	34.4	116	29.5	35.2	119	2	75-125	20
Titanium	856	29.7	921	218*	29.5	896	137*	3	75-125	20
Vanadium	42.8	29.7	73.0	102	29.5	71.8	98	2	75-125	20
Zinc	58.5	59.3	114	94	59.0	116	98	2	75-125	20
Lithium	23.5	29.7	57.4	114	29.5	56.5	112	2	75-125	20
Phosphorus	241	297	517	93	295	518	94	0	75-125	20
Zirconium	ND	29.7	18.7	63*	29.5	17.8	60*	5	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D191  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 15.7  
DILT N FACTR: 1.00 1.00  
SAMPLE ID: SL-502-SA5C-SB-0.0-0.5  
CONTROL NO.: D191-02W D191-02A  
LAB FILE ID: 98E03025 98E03024  
DATIME EXTRACTD: 04/25/1210:46 04/25/1210:46 DATE COLLECTED: 04/20/12  
DATIME ANALYZD: 05/03/1213:10 05/03/1213:06 DATE RECEIVED: 04/20/12  
PREP. BATCH: NA NA  
CALIB. REF: 98E03017 98E03017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	20000	2970	22700	94	75-125
Antimony	0.222J	29.7	30.2	101	75-125
Arsenic	5.69	29.7	33.4	94	75-125
Barium	120	29.7	150	102	75-125
Beryllium	0.765	29.7	30.1	99	75-125
Boron	3.73J	29.7	33.1	99	75-125
Cadmium	0.350J	29.7	29.5	98	75-125
Calcium	3760	2970	6670	98	75-125
Chromium	23.4	29.7	50.4	91	75-125
Cobalt	6.79	29.7	33.9	92	75-125
Copper	13.2	29.7	39.2	88	75-125
Iron	22400	2970	25400	98	75-125
Lead	12.1	29.7	41.8	100	75-125
Magnesium	4640	2970	7490	96	75-125
Manganese	297	29.7	325	94	75-125
Molybdenum	0.492J	29.7	30.0	100	75-125
Nickel	13.7	29.7	39.9	88	75-125
Potassium	3470	2970	6550	104	75-125
Selenium	ND	29.7	28.7	97	75-125
Silver	0.390J	29.7	29.7	99	75-125
Sodium	77.6J	2970	2860	94	75-125
Strontium	28.7	29.7	56.9	95	75-125
Thallium	0.273J	29.7	29.8	100	75-125
Tin	ND	29.7	33.8	114	75-125
Titanium	856	29.7	889	112	75-125
Vanadium	42.8	29.7	70.0	92	75-125
Zinc	58.5	59.3	112	90	75-125
Lithium	23.5	29.7	54.4	104	75-125
Phosphorus	241	297	532	98	75-125
Zirconium	ND	29.7	29.8	100	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D191  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 15.7  
 DILUTION FACTOR: 1.00 5.00  
 SAMPLE ID: SL-502-SA5C-SB SL-502-SA5C-SB  
 EMAX SAMP ID: D191-02W D191-02J  
 LAB FILE ID: 98E03025 98E03026  
 DATE EXTRACTED: 04/25/1210:46 04/25/1210:46 DATE COLLECTED: 04/20/12  
 DATE ANALYZED: 05/03/1213:10 05/03/1213:15 DATE RECEIVED: 04/20/12  
 PREP. BATCH: IMD037S IMD037S  
 CALIB. REF: 98E03017 98E03017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	20000	20400	2	10
Antimony	0.222J	ND	NA	10
Arsenic	5.69	5.80	2	10
Barium	120	113	6	10
Beryllium	0.765	0.749J	NA	10
Boron	3.73J	ND	NA	10
Cadmium	0.350J	0.312J	NA	10
Calcium	3760	3920	4	10
Chromium	23.4	24.3	4	10
Cobalt	6.79	7.15	5	10
Copper	13.2	14.3	9	10
Iron	22400	23700	6	10
Lead	12.1	11.9	2	10
Magnesium	4640	4750	2	10
Manganese	297	315	6	10
Molybdenum	0.492J	0.517J	NA	10
Nickel	13.7	14.7	7	10
Potassium	3470	3550	2	10
Selenium	ND	ND	0	10
Silver	0.390J	0.384J	NA	10
Sodium	77.6J	ND	NA	10
Strontium	28.7	28.1	2	10
Thallium	0.273J	ND	NA	10
Tin	ND	ND	0	10
Titanium	856	848	1	10
Vanadium	42.8	43.8	2	10
Zinc	58.5	64.5	10	10
Lithium	23.5	22.2	5	10
Phosphorus	241	243	1	10
Zirconium	ND	ND	0	10

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D191  
=====

Matrix : SOIL  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLD006SB	ND	1	NA	5.00	2.50	04/27/1212:29	04/25/1214:44	ND27016	ND27014	PLD006S	NA	04/25/12
LCS1S	PLD006SL	24.6	1	NA	5.00	2.50	04/27/1212:43	04/25/1214:44	ND27017	ND27014	PLD006S	NA	04/25/12
LCD1S	PLD006SC	25.4	1	NA	5.00	2.50	04/27/1212:57	04/25/1214:44	ND27018	ND27014	PLD006S	NA	04/25/12
SL-502-SA5C-SB-0.0-0.5MS	D191-02M	35.3	1	15.7	5.93	2.97	04/27/1215:28	04/25/1214:44	ND27027	ND27026	PLD006S	04/20/1208:50	04/20/12
SL-502-SA5C-SB-0.0-0.5	D191-02	ND	1	15.7	5.93	2.97	04/27/1215:42	04/25/1214:44	ND27028	ND27026	PLD006S	04/20/1208:50	04/20/12
SL-502-SA5C-SB-0.0-0.5MSDD	D191-02S	34.5	1	15.7	5.93	2.97	04/27/1215:56	04/25/1214:44	ND27029	ND27026	PLD006S	04/20/1208:50	04/20/12
SL-501-SA5C-SB-0.0-0.5	D191-01	ND	1	9.7	5.54	2.77	04/27/1216:11	04/25/1214:44	ND27030	ND27026	PLD006S	04/20/1209:30	04/20/12
SL-802-SA5C-SB-0.0-0.5	D191-03	ND	1	13.0	5.75	2.87	04/27/1216:25	04/25/1214:44	ND27031	ND27026	PLD006S	04/20/1208:55	04/20/12
SL-507-SA5C-SB-0.0-0.5	D191-04	ND	1	9.4	5.52	2.76	04/27/1216:39	04/25/1214:44	ND27032	ND27026	PLD006S	04/20/1210:45	04/20/12
SL-508-SA5C-SB-0.0-0.5	D191-05	ND	1	8.5	5.46	2.73	04/27/1216:53	04/25/1214:44	ND27033	ND27026	PLD006S	04/20/1211:05	04/20/12
SL-509-SA5C-SB-0.0-0.5	D191-06	ND	1	7.2	5.39	2.69	04/27/1217:07	04/25/1214:44	ND27034	ND27026	PLD006S	04/20/1210:05	04/20/12
SL-574-SA5C-SB-0.0-0.5	D191-07	ND	1	14.3	5.83	2.92	04/27/1217:22	04/25/1214:44	ND27035	ND27026	PLD006S	04/20/1213:00	04/20/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D191  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLD006SB PLD006SL PLD006SC  
LAB FILE ID: ND27016 ND27017 ND27018  
DATE EXTRACTED: 04/25/1214:44 04/25/1214:44 04/25/1214:44 DATE COLLECTED: NA  
DATE ANALYZED: 04/27/1212:29 04/27/1212:43 04/27/1212:57 DATE RECEIVED: 04/25/12  
PREP. BATCH: PLD006S PLD006S PLD006S  
CALIB. REF: ND27014 ND27014 ND27014

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	24.6	98	25.0	25.4	101	3	85-115	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D191  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: 15.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-502-SA5C-SB-0.0-0.5  
LAB SAMP ID: D191-02 D191-02M D191-02S  
LAB FILE ID: ND27028 ND27027 ND27029  
DATE EXTRACTED: 04/25/1214:44 04/25/1214:44 04/25/1214:44 DATE COLLECTED: 04/20/12 08:50  
DATE ANALYZED: 04/27/1215:42 04/27/1215:28 04/27/1215:56 DATE RECEIVED: 04/20/12  
PREP. BATCH: PLD006S PLD006S PLD006S  
CALIB. REF: ND27026 ND27026 ND27026

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	29.7	35.3	119	29.7	34.5	116	2	80-120	20

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D191  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-501-SA5C-SB-0.0-0.5	D191-01	7.88	1	NA	NA	NA	04/21/1211:05	04/21/1211:05	12PHD024S01	PHD024S	PHD024S	04/20/1209:30	04/20/12
SL-502-SA5C-SB-0.0-0.5	D191-02	7.37	1	NA	NA	NA	04/21/1211:06	04/21/1211:05	12PHD024S02	PHD024S	PHD024S	04/20/1208:50	04/20/12
SL-502-SA5C-SB-0.0-0.5	DUPD191-02D	7.36	1	NA	NA	NA	04/21/1211:07	04/21/1211:05	12PHD024S03	PHD024S	PHD024S	04/20/1208:50	04/20/12
SL-802-SA5C-SB-0.0-0.5	D191-03	7.50	1	NA	NA	NA	04/21/1211:09	04/21/1211:05	12PHD024S04	PHD024S	PHD024S	04/20/1208:55	04/20/12
SL-507-SA5C-SB-0.0-0.5	D191-04	6.65	1	NA	NA	NA	04/21/1211:12	04/21/1211:05	12PHD024S05	PHD024S	PHD024S	04/20/1210:45	04/20/12
SL-508-SA5C-SB-0.0-0.5	D191-05	7.58	1	NA	NA	NA	04/21/1211:14	04/21/1211:05	12PHD024S06	PHD024S	PHD024S	04/20/1211:05	04/20/12
SL-509-SA5C-SB-0.0-0.5	D191-06	6.39	1	NA	NA	NA	04/21/1211:16	04/21/1211:05	12PHD024S07	PHD024S	PHD024S	04/20/1210:05	04/20/12
SL-574-SA5C-SB-0.0-0.5	D191-07	7.66	1	NA	NA	NA	04/21/1211:18	04/21/1211:05	12PHD024S08	PHD024S	PHD024S	04/20/1213:00	04/20/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12D191	DATE RECEIVED:	04/20/12
SAMPLE ID:	SL-502-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	04/21/1211:05
CONTROL NO.:	D191-02D	DATE ANALYZED:	04/21/1211:07

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	7.37	7.36	0.01	0.10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D191

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE010SB	ND	1	NA	0.100	0.0500	05/14/1215:48	05/14/1212:15	M47E011010	M47E011008	HGE010S	NA	05/14/12
LCS1S	HGE010SL	0.852	1	NA	0.100	0.0500	05/14/1215:50	05/14/1212:15	M47E011011	M47E011008	HGE010S	NA	05/14/12
LCD1S	HGE010SC	0.855	1	NA	0.100	0.0500	05/14/1215:52	05/14/1212:15	M47E011012	M47E011008	HGE010S	NA	05/14/12
SL-502-SA5C-SB-0.0-0.5AS	D191-02A	1.06	1.00	15.7	0.119	0.0593	05/14/1215:54	05/14/1212:15	M47E011013	M47E011008	HGE010S	04/20/12	04/20/12
SL-502-SA5C-SB-0.0-0.5	D191-02	ND	1.00	15.7	0.119	0.0593	05/14/1215:56	05/14/1212:15	M47E011014	M47E011008	HGE010S	04/20/12	04/20/12
SL-502-SA5C-SB-0.0-0.5DL	D191-02J	ND	5.00	15.7	0.593	0.297	05/14/1215:58	05/14/1212:15	M47E011015	M47E011008	HGE010S	04/20/12	04/20/12
SL-502-SA5C-SB-0.0-0.5MS	D191-02M	1.10	1.00	15.7	0.119	0.0593	05/14/1216:00	05/14/1212:15	M47E011016	M47E011008	HGE010S	04/20/12	04/20/12
SL-502-SA5C-SB-0.0-0.5MSDD	D191-02S	1.09	0.992	15.7	0.118	0.0588	05/14/1216:02	05/14/1212:15	M47E011017	M47E011008	HGE010S	04/20/12	04/20/12
SL-501-SA5C-SB-0.0-0.5	D191-01	0.0762J	0.988	9.7	0.109	0.0547	05/14/1216:04	05/14/1212:15	M47E011018	M47E011008	HGE010S	04/20/12	04/20/12
SL-802-SA5C-SB-0.0-0.5	D191-03	ND	0.997	13.0	0.115	0.0573	05/14/1216:06	05/14/1212:15	M47E011019	M47E011008	HGE010S	04/20/12	04/20/12
SL-507-SA5C-SB-0.0-0.5	D191-04	ND	1.00	9.4	0.110	0.0552	05/14/1216:13	05/14/1212:15	M47E011022	M47E011020	HGE010S	04/20/12	04/20/12
SL-508-SA5C-SB-0.0-0.5	D191-05	ND	0.997	8.5	0.109	0.0545	05/14/1216:15	05/14/1212:15	M47E011023	M47E011020	HGE010S	04/20/12	04/20/12
SL-509-SA5C-SB-0.0-0.5	D191-06	ND	0.995	7.2	0.107	0.0536	05/14/1216:17	05/14/1212:15	M47E011024	M47E011020	HGE010S	04/20/12	04/20/12
SL-574-SA5C-SB-0.0-0.5	D191-07	ND	0.997	14.3	0.116	0.0582	05/14/1216:19	05/14/1212:15	M47E011025	M47E011020	HGE010S	04/20/12	04/20/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D191  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE010SB HGE010SL HGE010SC  
LAB FILE ID: M47E011010 M47E011011 M47E011012  
DATIME EXTRCTD: 05/14/1212:15 05/14/1212:15 05/14/1212:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/14/1215:48 05/14/1215:50 05/14/1215:52 DATE RECEIVED: 05/14/12  
PREP. BATCH: HGE010S HGE010S HGE010S  
CALIB. REF: M47E011008 M47E011008 M47E011008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.852	102	.833	.855	103	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D191  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 15.7  
DILTN FACTR: 1.00 1.00 0.992  
SAMPLE ID: SL-502-SA5C-SB-0.0-0.5  
CONTROL NO.: D191-02 D191-02M D191-02S  
LAB FILE ID: M47E011014 M47E011016 M47E011017  
DATIME EXTRCTD: 05/14/1212:15 05/14/1212:15 05/14/1212:15 DATE COLLECTED: 04/20/12  
DATIME ANALYZD: 05/14/1215:56 05/14/1216:00 05/14/1216:02 DATE RECEIVED: 04/20/12  
PREP. BATCH: HGE010S HGE010S HGE010S  
CALIB. REF: M47E011008 M47E011008 M47E011008

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.988	1.1	111	.98	1.09	111	0	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D191  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 15.7  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-502-SA5C-SB-0.0-0.5  
CONTROL NO.: D191-02 D191-02A  
LAB FILE ID: M47E011014 M47E011013  
DATIME EXTRCTD: 05/14/1212:15 05/14/1212:15 DATE COLLECTED: 04/20/12  
DATIME ANALYZD: 05/14/1215:56 05/14/1215:54 DATE RECEIVED: 04/20/12  
PREP. BATCH: HGE010S HGE010S  
CALIB. REF: M47E011008 M47E011008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.988	1.06	107	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D191  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	15.7
DILUTION FACTOR:	1.00	5.00		
SAMPLE ID:	SL-502-SA5C-SB-0.0-	SL-502-SA5C-SB-0.0-		
EMAX SAMP ID:	D191-02	D191-02J		
LAB FILE ID:	M47E011014	M47E011015		
DATE EXTRACTED:	05/14/1212:15	05/14/1212:15	DATE COLLECTED:	04/20/12
DATE ANALYZED:	05/14/1215:56	05/14/1215:58	DATE RECEIVED:	04/20/12
PREP. BATCH:	HGE010S	HGE010S		
CALIB. REF:	M47E011008	M47E011008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D198                           Date Extracted: 04/30/12 11:44
Sample ID:   SL-512-SA5C-SB-0.0-0.5            Date Analyzed: 05/03/12 21:36
Lab Samp ID: D198-01                            Dilution Factor: 1
Lab File ID: REJ074                             Matrix          : SOIL
Ext Btch ID: SVD053S                            % Moisture     : 11.7
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	4.7J	11	2.8
BENZO (A) ANTHRACENE	22	11	2.8
BENZO (A) PYRENE	31	11	2.8
BENZO (B) FLUORANTHENE	39	11	2.8
BENZO (K) FLUORANTHENE	12	11	2.8
BENZO (G, H, I) PERYLENE	31	11	2.8
CHRYSENE	26	11	2.8
DIBENZO (A, H) ANTHRACENE	6.4J	11	2.8
FLUORANTHENE	52	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	19	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	21	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	49	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	25	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	219	377.5	58.0	40-130
2-FLUOROBIPHENYL	208	377.5	55.2	45-130
TERPHENYL-D14	306	377.5	81.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D198                           Date Extracted: 04/30/12 11:44
Sample ID    : SL-520-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 21:55
Lab Samp ID  : D198-06                           Dilution Factor: 3
Lab File ID  : REJ075                             Matrix          : SOIL
Ext Btch ID  : SVD053S                           % Moisture     : 9.5
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	33	8.3
ACENAPHTHYLENE	ND	33	8.3
ANTHRACENE	ND	33	8.3
BENZO (A) ANTHRACENE	ND	33	8.3
BENZO (A) PYRENE	ND	33	8.3
BENZO (B) FLUORANTHENE	9.6J	33	8.3
BENZO (K) FLUORANTHENE	ND	33	8.3
BENZO (G, H, I) PERYLENE	31J	33	8.3
CHRYSENE	ND	33	8.3
DIBENZO (A, H) ANTHRACENE	ND	33	8.3
FLUORANTHENE	ND	33	8.3
FLUORENE	ND	33	8.3
INDENO (1, 2, 3-CD) PYRENE	ND	33	8.3
NAPHTHALENE	ND	33	8.3
PHENANTHRENE	ND	33	8.3
2-METHYLNAPHTHALENE	ND	33	8.3
1-METHYLNAPHTHALENE	ND	33	8.3
N-NITROSODIMETHYLAMINE	ND	33	8.3
PYRENE	ND	33	8.3
AZOBENZENE	ND	17	8.3
BENZO (E) PYRENE	20	17	8.3
BIPHENYL	ND	17	8.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	255	368.3	69.2	40-130
2-FLUOROBIPHENYL	254	368.3	69.0	45-130
TERPHENYL-D14	331	368.3	89.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D198                           Date Extracted: 04/30/12 11:44
Sample ID    : SL-532-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 22:14
Lab Samp ID  : D198-07                          Dilution Factor: 3
Lab File ID  : REJ076                            Matrix          : SOIL
Ext Btch ID  : SVD053S                           % Moisture     : 9.0
Calib. Ref.  : RAJ290                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	32J	33	8.2
ACENAPHTHYLENE	ND	33	8.2
ANTHRACENE	33J	33	8.2
BENZO (A) ANTHRACENE	120	33	8.2
BENZO (A) PYRENE	180	33	8.2
BENZO (B) FLUORANTHENE	260	33	8.2
BENZO (K) FLUORANTHENE	65	33	8.2
BENZO (G, H, I) PERYLENE	150	33	8.2
CHRYSENE	180	33	8.2
DIBENZO (A, H) ANTHRACENE	ND	33	8.2
FLUORANTHENE	380	33	8.2
FLUORENE	22J	33	8.2
INDENO (1, 2, 3-CD) PYRENE	110	33	8.2
NAPHTHALENE	ND	33	8.2
PHENANTHRENE	290	33	8.2
2-METHYLNAPHTHALENE	ND	33	8.2
1-METHYLNAPHTHALENE	ND	33	8.2
N-NITROSODIMETHYLAMINE	ND	33	8.2
PYRENE	340	33	8.2
AZOBENZENE	ND	16	8.2
BENZO (E) PYRENE	150	16	8.2
BIPHENYL	ND	16	8.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	181	366.3	49.5	40-130
2-FLUOROBIPHENYL	184	366.3	50.4	45-130
TERPHENYL-D14	253	366.3	69.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D198                           Date Extracted: 04/30/12 11:44
Sample ID:   SL-533-SA5C-SB-0.0-0.5            Date Analyzed: 05/04/12 21:38
Lab Samp ID: D198-08W                           Dilution Factor: 2
Lab File ID: REJ112                             Matrix          : SOIL
Ext Btch ID: SVD053S                            % Moisture     : 5.4
Calib. Ref.: RAJ290                             Instrument ID  : T-OE4
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.3
ACENAPHTHYLENE	ND	21	5.3
ANTHRACENE	ND	21	5.3
BENZO (A) ANTHRACENE	ND	21	5.3
BENZO (A) PYRENE	ND	21	5.3
BENZO (B) FLUORANTHENE	ND	21	5.3
BENZO (K) FLUORANTHENE	ND	21	5.3
BENZO (G, H, I) PERYLENE	19J	21	5.3
CHRYSENE	ND	21	5.3
DIBENZO (A, H) ANTHRACENE	ND	21	5.3
FLUORANTHENE	ND	21	5.3
FLUORENE	ND	21	5.3
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.3
NAPHTHALENE	ND	21	5.3
PHENANTHRENE	ND	21	5.3
2-METHYLNAPHTHALENE	ND	21	5.3
1-METHYLNAPHTHALENE	ND	21	5.3
N-NITROSODIMETHYLAMINE	ND	21	5.3
PYRENE	ND	21	5.3
AZOBENZENE	ND	11	5.3
BENZO (E) PYRENE	9.5J	11	5.3
BIPHENYL	ND	11	5.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	250	352.3	70.9	40-130
2-FLUOROBIPHENYL	231	352.3	65.6	45-130
TERPHENYL-D14	319	352.3	90.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D198                           Date Extracted: 04/30/12 11:44
Sample ID    : MBLK1S                           Date Analyzed: 05/03/12 11:53
Lab Samp ID  : SVD053SB                         Dilution Factor: 1
Lab File ID  : REJ043                           Matrix          : SOIL
Ext Btch ID  : SVD053S                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	258	333.3	77.5	40-130
2-FLUOROBIPHENYL	242	333.3	72.6	45-130
TERPHENYL-D14	322	333.3	96.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D198  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVD053SB SVD053SL SVD053SC  
LAB FILE ID: REJ043 REJ044 REJ045  
DATE EXTRACTED: 04/30/1211:44 04/30/1211:44 04/30/1211:44 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1211:53 05/03/1212:12 05/03/1212:31 DATE RECEIVED: 04/30/12  
PREP. BATCH: SVD053S SVD053S SVD053S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	279	84	333	286	86	3	10-130	50
Acenaphthylene	ND	333	316	95	333	323	97	2	20-130	50
Anthracene	ND	333	269	81	333	284	85	5	20-130	50
Benzo (a) anthracene	ND	333	310	93	333	343	103	10	30-130	50
Benzo (a) pyrene	ND	333	343	103	333	364	109	6	30-130	50
Benzo (b) fluoranthene	ND	333	355	107	333	391	117	10	40-130	50
Benzo (k) fluoranthene	ND	333	357	107	333	365	110	2	30-140	50
Benzo (g, h, i) perylene	ND	333	370	111	333	383	115	3	30-140	50
Chrysene	ND	333	294	88	333	325	97	10	30-140	50
Dibenzo (a, h) anthracene	ND	333	375	113	333	388	116	3	40-140	50
Fluoranthene	ND	333	319	96	333	348	104	9	30-130	50
Fluorene	ND	333	318	95	333	317	95	1	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	376	113	333	389	117	3	20-160	50
Naphthalene	ND	333	253	76	333	266	80	5	10-130	50
Phenanthrene	ND	333	269	81	333	283	85	5	20-130	50
2-Methylnaphthalene	ND	333	282	85	333	292	87	3	30-150	50
1-Methylnaphthalene	ND	333	281	84	333	291	87	3	30-150	50
N-Nitrosodimethylamine	ND	333	262	79	333	303	91	15	30-150	50
Pyrene	ND	333	304	91	333	335	100	9	20-150	50
Azobenzene	ND	333	262	79	333	309	93	16	30-150	50
Benzo (e) pyrene	ND	333	345	103	333	337	101	2	30-150	50
Biphenyl	ND	333	271	81	333	257	77	5	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	253	76	333	280	84	40-130
2-Fluorobiphenyl	333	242	73	333	235	70	45-130
Terphenyl-d14	333	301	90	333	306	92	45-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D198                           Date Extracted: 04/26/12 10:30
Sample ID:   SL-512-SA5C-SB-0.0-0.5           Date Analyzed: 04/27/12 03:10
Lab Samp ID: D198-01                           Dilution Factor: 1
Lab File ID: LD26046A                          Matrix          : SOIL
Ext Btch ID: DSD043S                           % Moisture     : 11.7
Calib. Ref.: LD26041A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	18	5.7	2.8
EFH(C30-C40)	26	11	5.7
TOTAL EFH(C8-C40)	44	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.8	113.3	68.7	50-150
HEXACOSANE	23.6	28.31	83.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 04/26/12
Batch No.    : 12D198                             Date Extracted: 04/26/12 10:30
Sample ID    : MBLK1S                             Date Analyzed: 04/27/12 02:20
Lab Samp ID  : DSD043SB                           Dilution Factor: 1
Lab File ID  : LD26043A                           Matrix          : SOIL
Ext Btch ID  : DSD043S                             % Moisture      : NA
Calib. Ref.  : LD26041A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.3	100.0	75.3	50-150
HEXACOSANE	20.9	25.00	83.8	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D198  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSD043SB DSD043SL DSD043SC  
LAB FILE ID: LD26043A LD26044A LD26045A  
DATE EXTRACTED: 04/26/1210:30 04/26/1210:30 04/26/1210:30 DATE COLLECTED: NA  
DATE ANALYZED: 04/27/1202:20 04/27/1202:37 04/27/1202:53 DATE RECEIVED: 04/26/12  
PREP. BATCH: DSD043S DSD043S DSD043S  
CALIB. REF: LD26041A LD26041A LD26041A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	461	92	500	443	89	4	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	78.9	79	100	78.8	79	50-150
Hexacosane	25.0	20.9	84	25.0	21.0	84	50-150

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D198                           Date Extracted: 05/01/12 15:20
Sample ID    : SL-512-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 16:55
Lab Samp ID  : D198-01                           Dilution Factor: 1
Lab File ID  : KE03009A                         Matrix          : SOIL
Ext Btch ID  : CPE001SB                         % Moisture     : 11.7
Calib. Ref.  : KE03003A                         Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	13J   (12J)	23	11   11	
AROCLOR 1260	(14J)   23	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.75)   8.846	15.10	(84.5)   58.6	45-120
TETRACHLORO-M-XYLENE	(13.72)   10.37	15.10	(90.9)   68.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D198                           Date Extracted: 05/01/12 15:20
Sample ID    : SL-635-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 17:48
Lab Samp ID  : D198-02                           Dilution Factor: 1
Lab File ID  : KE03010A                          Matrix          : SOIL
Ext Btch ID  : CPE001SB                          % Moisture     : 10.3
Calib. Ref.  : KE03003A                          Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	23   (14J)	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.48)   8.929	14.86	(90.7)   60.1	45-120
TETRACHLORO-M-XYLENE	(14.42)   11.52	14.86	(97.1)   77.5	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D198                           Date Extracted: 05/01/12 15:20
Sample ID    : SL-632-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 18:41
Lab Samp ID  : D198-04                           Dilution Factor: 1
Lab File ID  : KE03011A                         Matrix          : SOIL
Ext Btch ID  : CPE001SB                         % Moisture     : 15.4
Calib. Ref.  : KE03003A                         Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	47	24   24	
AROCLOR 5442	(ND)   ND	47	24   24	
AROCLOR 5460	(ND)   ND	47	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.66)   8.990	15.76	(86.7)   57.1	45-120
TETRACHLORO-M-XYLENE	(14.82)   11.78	15.76	(94.1)   74.8	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D198                           Date Extracted: 05/01/12 15:20
Sample ID:   SL-632-SA5C-SB-2.0-3.0           Date Analyzed: 05/03/12 19:34
Lab Samp ID: D198-05                           Dilution Factor: 1
Lab File ID: KE03012A                          Matrix          : SOIL
Ext Btch ID: CPE001SB                          % Moisture     : 10.0
Calib. Ref.: KE03003A                          Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.83)   10.44	14.81	(100)   70.5	45-120
TETRACHLORO-M-XYLENE	(15.38)   10.64	14.81	(104)   71.8	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D198                           Date Extracted: 05/01/12 15:20
Sample ID    : SL-520-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 20:27
Lab Samp ID  : D198-06                           Dilution Factor: 1
Lab File ID  : KE03013A                          Matrix          : SOIL
Ext Btch ID  : CPE001SB                          % Moisture     : 9.5
Calib. Ref.  : KE03003A                          Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(11.94)   7.596	14.73	(81.1)   51.6	45-120
TETRACHLORO-M-XYLENE	(14.41)   10.98	14.73	(97.8)   74.6	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 04/23/12
Project    : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.  : 12D198                           Date Extracted: 05/01/12 15:20
Sample ID  : SL-532-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 21:21
Lab Samp ID: D198-07                          Dilution Factor: 1
Lab File ID: KE03014A                        Matrix          : SOIL
Ext Btch ID: CPE001SB                       % Moisture     : 9.0
Calib. Ref.: KE03003A                       Instrument ID  : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	56   (34)	22	11   11	
AROCLOR 1260	48   (49)	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(32J)   27J	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.72   (14.73)	14.65	80.0   (101)	45-120
TETRACHLORO-M-XYLENE	(14.27)   10.41	14.65	(97.4)   71.1	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
Batch No.    : 12D198                           Date Extracted: 05/01/12 15:20
Sample ID    : SL-533-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 22:14
Lab Samp ID  : D198-08                           Dilution Factor: 1
Lab File ID  : KE03015A                         Matrix          : SOIL
Ext Btch ID  : CPE001SB                         % Moisture     : 5.4
Calib. Ref.  : KE03003A                         Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.23)   8.303	14.09	(93.9)   58.9	45-120
TETRACHLORO-M-XYLENE	(14.88)   10.81	14.09	(106)   76.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/01/12
Batch No.  : 12D198                             Date Extracted: 05/01/12 15:20
Sample ID  : MBLK1S                             Date Analyzed: 05/03/12 14:15
Lab Samp ID: 60E001SB                           Dilution Factor: 1
Lab File ID: KE03006A                           Matrix          : SOIL
Ext Btch ID: CPE001SB                           % Moisture     : NA
Calib. Ref.: KE03003A                           Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.45)   10.87	13.33	(108)   81.6	45-120
TETRACHLORO-M-XYLENE	(13.78)   12.00	13.33	(103)   90.0	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D198  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E001SB 60E001SL 60E001SC  
LAB FILE ID: KE03006A KE03007A KE03008A  
DATE EXTRACTED: 05/01/1215:20 05/01/1215:20 05/01/1215:20 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1214:15 05/03/1215:09 05/03/1216:02 DATE RECEIVED: 05/01/12  
PREP. BATCH: CPE001SB CPE001SB CPE001SB  
CALIB. REF: KE03003A KE03003A KE03003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(148)   116	(89)   70	167	(153)   121	(92)   73	(3)   4	50-130	50
Aroclor 1260	(ND)   ND	167	178   (191)	107   (115)	167	179   (190)	107   (114)	1   (1)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(89.4)   85.7	(107)   103	83.3	(89.0)   85.1	(107)   102	(0)   1	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(13.91)   10.52	(104)   78.9	13.33	(13.67)   10.32	(103)   77.4	45-120
Tetrachloro-m-xylene	13.33	(12.49)   10.68	(93.7)   80.1	13.33	(13.21)   10.97	(99.1)   82.3	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
SDG NO.     : 12D198                           Date Extracted: 04/27/12 10:38
Sample ID   : SL-512-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 16:18
Lab Samp ID : D198-01                           Dilution Factor: 0.985
Lab File ID : 98E03066                         Matrix          : SOIL
Ext Btch ID : IMD041S                          % Moisture     : 11.7
Calib. Ref. : 98E03058                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15400	112	13.4
Antimony	0.197J	0.558	0.112
Arsenic	4.96	0.558	0.223
Barium	131	0.558	0.223
Beryllium	0.609	0.558	0.0558
Boron	2.84J	5.58	2.79
Cadmium	0.375J	0.558	0.0558
Calcium	4800	22.3	11.2
Chromium	17.9	0.558	0.223
Cobalt	6.60	0.558	0.0558
Copper	10.5	0.558	0.223
Iron	21400	112	11.2
Lead	10.0	0.558	0.112
Magnesium	4130	11.2	5.58
Manganese	302	0.558	0.279
Molybdenum	0.521J	0.558	0.0558
Nickel	10.2	0.558	0.223
Potassium	2770	112	33.5
Selenium	ND	0.558	0.223
Silver	0.788	0.558	0.0558
Sodium	119	112	55.8
Strontium	30.1	0.558	0.279
Thallium	0.218J	0.446	0.0558
Tin	ND	11.2	5.58
Titanium	911	1.12	0.558
Vanadium	37.7	0.558	0.0558
Zinc	77.6	5.58	1.67
Lithium	13.4	2.23	1.12
Phosphorus	562	13.4	6.69
Zirconium	ND	5.58	2.79

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/23/12
SDG NO.     : 12D198                           Date Extracted: 04/27/12 10:38
Sample ID   : SL-520-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 16:23
Lab Samp ID : D198-06                           Dilution Factor: 0.976
Lab File ID : 98E03067                         Matrix          : SOIL
Ext Btch ID : IMD041S                          % Moisture     : 9.5
Calib. Ref. : 98E03058                         Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11800	108	12.9
Antimony	0.169J	0.539	0.108
Arsenic	3.30	0.539	0.216
Barium	105	0.539	0.216
Beryllium	0.478J	0.539	0.0539
Boron	3.01J	5.39	2.70
Cadmium	0.273J	0.539	0.0539
Calcium	2910	21.6	10.8
Chromium	40.1	0.539	0.216
Cobalt	6.08	0.539	0.0539
Copper	12.6	0.539	0.216
Iron	16800	108	10.8
Lead	10.6	0.539	0.108
Magnesium	3200	10.8	5.39
Manganese	276	0.539	0.270
Molybdenum	0.977	0.539	0.0539
Nickel	20.2	0.539	0.216
Potassium	2210	108	32.4
Selenium	ND	0.539	0.216
Silver	0.0578J	0.539	0.0539
Sodium	118	108	53.9
Strontium	26.6	0.539	0.270
Thallium	0.199J	0.431	0.0539
Tin	ND	10.8	5.39
Titanium	747	1.08	0.539
Vanadium	36.4	0.539	0.0539
Zinc	48.4	5.39	1.62
Lithium	10.6	2.16	1.08
Phosphorus	241	12.9	6.47
Zirconium	ND	5.39	2.70

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/23/12
Project     : SSFL PHASE 3                     Date Received: 04/23/12
SDG NO.    : 12D198                           Date Extracted: 04/27/12 10:38
Sample ID:  SL-532-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 16:27
Lab Samp ID: D198-07                          Dilution Factor: 0.971
Lab File ID: 98E03068                         Matrix          : SOIL
Ext Btch ID: IMD041S                          % Moisture     : 9.0
Calib. Ref.: 98E03058                         Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11800	107	12.8
Antimony	1.38	0.534	0.107
Arsenic	2.75	0.534	0.213
Barium	84.1	0.534	0.213
Beryllium	0.378J	0.534	0.0534
Boron	3.19J	5.34	2.67
Cadmium	2.94	0.534	0.0534
Calcium	4800	21.3	10.7
Chromium	25.7	0.534	0.213
Cobalt	6.03	0.534	0.0534
Copper	19.8	0.534	0.213
Iron	17700	107	10.7
Lead	58.1	0.534	0.107
Magnesium	4520	10.7	5.34
Manganese	203	0.534	0.267
Molybdenum	1.10	0.534	0.0534
Nickel	18.4	0.534	0.213
Potassium	2410	107	32.0
Selenium	ND	0.534	0.213
Silver	0.117J	0.534	0.0534
Sodium	179	107	53.4
Strontium	24.5	0.534	0.267
Thallium	0.160J	0.427	0.0534
Tin	ND	10.7	5.34
Titanium	798	1.07	0.534
Vanadium	31.9	0.534	0.0534
Zinc	1100	5.34	1.60
Lithium	12.2	2.13	1.07
Phosphorus	476	12.8	6.40
Zirconium	ND	5.34	2.67

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/23/12
Project    : SSFL PHASE 3                     Date Received: 04/23/12
SDG NO.    : 12D198                           Date Extracted: 04/27/12 10:38
Sample ID: SL-533-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 16:46
Lab Samp ID: D198-08                         Dilution Factor: 0.980
Lab File ID: 98E03072                       Matrix          : SOIL
Ext Btch ID: IMD041S                        % Moisture     : 5.4
Calib. Ref.: 98E03070                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11300	104	12.4
Antimony	0.222J	0.518	0.104
Arsenic	3.76	0.518	0.207
Barium	99.0	0.518	0.207
Beryllium	0.461J	0.518	0.0518
Boron	3.98J	5.18	2.59
Cadmium	0.216J	0.518	0.0518
Calcium	3280	20.7	10.4
Chromium	17.7	0.518	0.207
Cobalt	4.92	0.518	0.0518
Copper	8.14	0.518	0.207
Iron	17200	104	10.4
Lead	6.19	0.518	0.104
Magnesium	3560	10.4	5.18
Manganese	228	0.518	0.259
Molybdenum	0.479J	0.518	0.0518
Nickel	9.21	0.518	0.207
Potassium	2260	104	31.1
Selenium	ND	0.518	0.207
Silver	ND	0.518	0.0518
Sodium	102J	104	51.8
Strontium	35.1	0.518	0.259
Thallium	0.183J	0.414	0.0518
Tin	ND	10.4	5.18
Titanium	720	1.04	0.518
Vanadium	37.2	0.518	0.0518
Zinc	41.9	5.18	1.55
Lithium	14.7	2.07	1.04
Phosphorus	317	12.4	6.22
Zirconium	ND	5.18	2.59

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/27/12
SDG NO.     : 12D198                           Date Extracted: 04/27/12 10:38
Sample ID   : MBLK1S                           Date Analyzed: 05/03/12 18:35
Lab Samp ID : IMD041SQ                         Dilution Factor: 1
Lab File ID : 98E03096                        Matrix          : SOIL
Ext Btch ID : IMD041S                         % Moisture     : NA
Calib. Ref. : 98E03094                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D198  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMD041SQ IMD041SL IMD041SC  
LAB FILE ID: 98E03096 98E03061 98E03062  
DATIME EXTRACTD: 04/27/1210:38 04/27/1210:38 04/27/1210:38 DATE COLLECTED: NA  
DATIME ANALYZD: 05/03/1218:35 05/03/1215:56 05/03/1216:00 DATE RECEIVED: 04/27/12  
PREP. BATCH: NA NA NA  
CALIB. REF: 98E03094 98E03058 98E03058

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2610	105	2500	2710	108	4	80-120	20
Antimony	ND	25.0	25.8	103	25.0	26.0	104	1	80-120	20
Arsenic	ND	25.0	25.0	100	25.0	25.4	102	1	80-120	20
Barium	ND	25.0	26.3	105	25.0	26.5	106	1	80-120	20
Beryllium	ND	25.0	25.0	100	25.0	25.5	102	2	80-120	20
Boron	ND	25.0	25.4	102	25.0	26.3	105	3	80-120	20
Cadmium	ND	25.0	25.1	100	25.0	25.2	101	0	80-120	20
Calcium	ND	2500	2710	108	2500	2780	111	3	80-120	20
Chromium	ND	25.0	24.5	98	25.0	24.9	100	2	80-120	20
Cobalt	ND	25.0	25.4	102	25.0	26.4	106	4	80-120	20
Copper	ND	25.0	23.9	96	25.0	24.2	97	1	80-120	20
Iron	ND	2500	2610	104	2500	2680	107	2	80-120	20
Lead	ND	25.0	25.6	103	25.0	25.9	104	1	80-120	20
Magnesium	ND	2500	2630	105	2500	2740	109	4	80-120	20
Manganese	ND	25.0	25.9	104	25.0	26.7	107	3	80-120	20
Molybdenum	ND	25.0	25.3	101	25.0	25.5	102	1	80-120	20
Nickel	ND	25.0	23.8	95	25.0	24.1	97	1	80-120	20
Potassium	ND	2500	2780	111	2500	2850	114	2	80-120	20
Selenium	ND	25.0	24.6	98	25.0	25.1	100	2	80-120	20
Silver	ND	25.0	25.7	103	25.0	25.8	103	1	80-120	20
Sodium	ND	2500	2590	104	2500	2650	106	2	80-120	20
Strontium	ND	25.0	26.4	105	25.0	26.6	106	1	80-120	20
Thallium	ND	25.0	25.7	103	25.0	26.1	104	1	80-120	20
Tin	ND	25.0	28.1	112	25.0	28.4	114	1	80-120	20
Titanium	ND	25.0	25.7	103	25.0	26.7	107	4	80-120	20
Vanadium	ND	25.0	24.8	99	25.0	25.1	100	1	80-120	20
Zinc	ND	50.0	49.6	99	50.0	50.2	100	1	80-120	20
Lithium	ND	25.0	25.9	103	25.0	26.0	104	1	80-120	20
Phosphorus	ND	250	251	100	250	256	102	2	80-120	20
Zirconium	ND	25.0	25.3	101	25.0	25.9	103	2	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D198  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 11.0  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-193-NBZ-SS-0.0-0.5  
CONTROL NO.: D176-12 D176-12A  
LAB FILE ID: 98E03064 98E03063  
DATIME EXTRACTD: 04/27/1210:38 04/27/1210:38 DATE COLLECTED: 04/19/12  
DATIME ANALYZD: 05/03/1216:09 05/03/1216:05 DATE RECEIVED: 04/19/12  
PREP. BATCH: IMD041S IMD041S  
CALIB. REF: 98E03058 98E03058

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	10100	2790	13100	106	75-125
Antimony	0.147J	27.9	28.3	101	75-125
Arsenic	5.99	27.9	32.2	94	75-125
Barium	77.5	27.9	111	118	75-125
Beryllium	0.400J	27.9	27.9	98	75-125
Boron	ND	27.9	29.8	107	75-125
Cadmium	0.212J	27.9	27.6	98	75-125
Calcium	2420	2790	5480	109	75-125
Chromium	10.7	27.9	36.1	91	75-125
Cobalt	4.31	27.9	30.6	94	75-125
Copper	5.49	27.9	29.8	87	75-125
Iron	16800	2790	19900	111	75-125
Lead	6.82	27.9	34.5	99	75-125
Magnesium	4010	2790	6800	100	75-125
Manganese	260	27.9	291	114	75-125
Molybdenum	0.368J	27.9	28.2	99	75-125
Nickel	7.65	27.9	31.9	87	75-125
Potassium	3440	2790	6450	108	75-125
Selenium	ND	27.9	26.9	96	75-125
Silver	ND	27.9	27.6	99	75-125
Sodium	ND	2790	2830	101	75-125
Strontium	16.6	27.9	44.8	101	75-125
Thallium	0.223J	27.9	28.1	100	75-125
Tin	ND	27.9	31.2	112	75-125
Titanium	807	27.9	855	170*	75-125
Vanadium	25.1	27.9	51.1	93	75-125
Zinc	48.2	55.9	99.3	91	75-125
Lithium	26.4	27.9	55.9	106	75-125
Phosphorus	311	279	623	112	75-125
Zirconium	ND	27.9	26.9	96	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D198  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 11.0  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-193-NBZ-SS- SL-193-NBZ-SS-  
 EMAX SAMP ID: D176-12 D176-12J  
 LAB FILE ID: 98E03064 98E03065  
 DATE EXTRACTED: 04/27/1210:38 04/27/1210:38 DATE COLLECTED: 04/19/12  
 DATE ANALYZED: 05/03/1216:09 05/03/1216:14 DATE RECEIVED: 04/19/12  
 PREP. BATCH: IMD041S IMD041S  
 CALIB. REF: 98E03058 98E03058

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	10100	10300	2	10
Antimony	0.147J	ND	NA	10
Arsenic	5.99	6.07	1	10
Barium	77.5	76.5	1	10
Beryllium	0.400J	0.354J	NA	10
Boron	ND	ND	0	10
Cadmium	0.212J	ND	NA	10
Calcium	2420	2530	4	10
Chromium	10.7	10.8	1	10
Cobalt	4.31	4.49	4	10
Copper	5.49	5.87	7	10
Iron	16800	17400	3	10
Lead	6.82	6.80	0	10
Magnesium	4010	4070	2	10
Manganese	260	271	5	10
Molybdenum	0.368J	0.382J	NA	10
Nickel	7.65	7.91	3	10
Potassium	3440	3410	1	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	ND	ND	0	10
Strontium	16.6	16.4	1	10
Thallium	0.223J	ND	NA	10
Tin	ND	ND	0	10
Titanium	807	793	2	10
Vanadium	25.1	25.4	1	10
Zinc	48.2	51.5	7	10
Lithium	26.4	23.5	11*	10
Phosphorus	311	317	2	10
Zirconium	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12D198  
 =====

Matrix : SOIL  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLD006SB	ND	1	NA	5.00	2.50	04/27/1212:29	04/25/1214:44	ND27016	ND27014	PLD006S	NA	04/25/12
LCS1S	PLD006SL	24.6	1	NA	5.00	2.50	04/27/1212:43	04/25/1214:44	ND27017	ND27014	PLD006S	NA	04/25/12
LCD1S	PLD006SC	25.4	1	NA	5.00	2.50	04/27/1212:57	04/25/1214:44	ND27018	ND27014	PLD006S	NA	04/25/12
SL-512-SA5C-SB-0.0-0.5	D198-01	ND	1	11.7	5.66	2.83	04/27/1217:50	04/25/1214:44	ND27037	ND27036	PLD006S	04/23/1211:20	04/23/12
SL-520-SA5C-SB-0.0-0.5	D198-06	ND	1	9.5	5.52	2.76	04/27/1218:04	04/25/1214:44	ND27038	ND27036	PLD006S	04/23/1214:15	04/23/12
SL-533-SA5C-SB-0.0-0.5	D198-08	ND	1	5.4	5.29	2.64	04/27/1218:18	04/25/1214:44	ND27039	ND27036	PLD006S	04/23/1215:15	04/23/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D198  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLD006SB PLD006SL PLD006SC  
LAB FILE ID: ND27016 ND27017 ND27018  
DATE EXTRACTED: 04/25/1214:44 04/25/1214:44 04/25/1214:44 DATE COLLECTED: NA  
DATE ANALYZED: 04/27/1212:29 04/27/1212:43 04/27/1212:57 DATE RECEIVED: 04/25/12  
PREP. BATCH: PLD006S PLD006S PLD006S  
CALIB. REF: ND27014 ND27014 ND27014

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	24.6	98	25.0	25.4	101	3	85-115	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12D198  
 =====

Matrix : SOIL  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCD013SB	ND	1	NA	1.00	0.500	04/26/1221:13	04/25/1214:21	ID27013	ID27011	HCD013S	NA	04/25/12
MBLK1S	HCD013SQ	ND	1	NA	1.00	0.500	04/26/1221:23	04/25/1214:21	ID27014	ID27011	HCD013S	NA	04/25/12
LCS1S	CSD013SL	8.83	1	NA	1.00	0.500	04/26/1221:34	04/25/1214:21	ID27015	ID27011	HCD013S	NA	04/25/12
LCS1S	CSD013SX	9.01	1	NA	1.00	0.500	04/26/1221:44	04/25/1214:21	ID27016	ID27011	HCD013S	NA	04/25/12
LCS2S	CID013SL	407	20	NA	20.0	10.0	04/26/1221:55	04/25/1214:21	ID27017	ID27011	HCD013S	NA	04/25/12
LCS2S	CID013SX	389	20	NA	20.0	10.0	04/26/1222:05	04/25/1214:21	ID27018	ID27011	HCD013S	NA	04/25/12
SL-520-SA5C-SB-0.0-0.5	D198-06	ND	1	9.5	1.10	0.552	04/27/1209:38	04/25/1214:21	ID27065	ID27061	HCD013S	04/23/1214:15	04/23/12
SL-520-SA5C-SB-0.0-0.5	D198-06R	ND	1	9.5	1.10	0.552	04/27/1209:48	04/25/1214:21	ID27066	ID27061	HCD013S	04/23/1214:15	04/23/12
SL-532-SA5C-SB-0.0-0.5	D198-07	ND	1	9.0	1.10	0.549	04/27/1209:58	04/25/1214:21	ID27067	ID27061	HCD013S	04/23/1213:25	04/23/12
SL-532-SA5C-SB-0.0-0.5	D198-07R	ND	1	9.0	1.10	0.549	04/27/1210:09	04/25/1214:21	ID27068	ID27061	HCD013S	04/23/1213:25	04/23/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D198  
METHOD: 7199

=====

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	20		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	HCD013SQ	CID013SX		
LAB FILE ID:	ID27014	ID27018		
DATE EXTRACTED:	04/25/1214:21	04/25/1214:21	DATE COLLECTED:	NA
DATE ANALYZED:	04/26/1221:23	04/26/1222:05	DATE RECEIVED:	04/25/12
PREP. BATCH:	HCD013S	HCD013S		
CALIB. REF:	ID27011	ID27011		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
-----	-----	-----	-----	-----	-----
Hexavalent Chromium	ND	480	389	81	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D198  
METHOD: 7199

=====

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	1		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	HCD013SQ	CSD013SX		
LAB FILE ID:	ID27014	ID27016		
DATE EXTRACTED:	04/25/1214:21	04/25/1214:21	DATE COLLECTED:	NA
DATE ANALYZED:	04/26/1221:23	04/26/1221:44	DATE RECEIVED:	04/25/12
PREP. BATCH:	HCD013S	HCD013S		
CALIB. REF:	ID27011	ID27011		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	9.01	90	80-120

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D198  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-512-SA5C-SB-0.0-0.5	D198-01	7.82	1	NA	NA	NA	04/24/1215:31	04/24/1215:24	12PHD028S05	PHD028S	PHD028S	04/23/1211:20	04/23/12
SL-520-SA5C-SB-0.0-0.5	D198-06	8.15	1	NA	NA	NA	04/24/1215:32	04/24/1215:24	12PHD028S06	PHD028S	PHD028S	04/23/1214:15	04/23/12
SL-532-SA5C-SB-0.0-0.5	D198-07	7.20	1	NA	NA	NA	04/24/1215:35	04/24/1215:24	12PHD028S07	PHD028S	PHD028S	04/23/1213:25	04/23/12
SL-533-SA5C-SB-0.0-0.5	D198-08	8.04	1	NA	NA	NA	04/24/1215:36	04/24/1215:24	12PHD028S08	PHD028S	PHD028S	04/23/1215:15	04/23/12

METHOD 7471A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D198  
=====

Matrix : SOIL  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE010SB	ND	1	NA	0.100	0.0500	05/14/1215:48	05/14/1212:15	M47E011010	M47E011008	HGE010S	NA	05/14/12
LCS1S	HGE010SL	0.852	1	NA	0.100	0.0500	05/14/1215:50	05/14/1212:15	M47E011011	M47E011008	HGE010S	NA	05/14/12
LCD1S	HGE010SC	0.855	1	NA	0.100	0.0500	05/14/1215:52	05/14/1212:15	M47E011012	M47E011008	HGE010S	NA	05/14/12
SL-512-SA5C-SB-0.0-0.5	D198-01	ND	0.997	11.7	0.113	0.0565	05/14/1216:21	05/14/1212:15	M47E011026	M47E011020	HGE010S	04/23/12	04/23/12
SL-520-SA5C-SB-0.0-0.5	D198-06	ND	1.01	9.5	0.112	0.0558	05/14/1216:23	05/14/1212:15	M47E011027	M47E011020	HGE010S	04/23/12	04/23/12
SL-532-SA5C-SB-0.0-0.5	D198-07	ND	0.997	9.0	0.110	0.0548	05/14/1216:25	05/14/1212:15	M47E011028	M47E011020	HGE010S	04/23/12	04/23/12
SL-533-SA5C-SB-0.0-0.5	D198-08	ND	0.979	5.4	0.103	0.0517	05/14/1216:27	05/14/1212:15	M47E011029	M47E011020	HGE010S	04/23/12	04/23/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D198  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE010SB HGE010SL HGE010SC  
LAB FILE ID: M47E011010 M47E011011 M47E011012  
DATIME EXTRCTD: 05/14/1212:15 05/14/1212:15 05/14/1212:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/14/1215:48 05/14/1215:50 05/14/1215:52 DATE RECEIVED: 05/14/12  
PREP. BATCH: HGE010S HGE010S HGE010S  
CALIB. REF: M47E011008 M47E011008 M47E011008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.852	102	.833	.855	103	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D198  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 15.7  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-502-SA5C-SB-0.0-0.5  
CONTROL NO.: D191-02 D191-02A  
LAB FILE ID: M47E011014 M47E011013  
DATIME EXTRCTD: 05/14/1212:15 05/14/1212:15 DATE COLLECTED: 04/20/12  
DATIME ANALYZD: 05/14/1215:56 05/14/1215:54 DATE RECEIVED: 04/20/12  
PREP. BATCH: HGE010S HGE010S  
CALIB. REF: M47E011008 M47E011008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.988	1.06	107	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D198  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 15.7  
 DILUTION FACTOR: 1.00 5.00  
 SAMPLE ID: SL-502-SA5C-SB-0.0- SL-502-SA5C-SB-0.0-  
 EMAX SAMP ID: D191-02 D191-02J  
 LAB FILE ID: M47E011014 M47E011015  
 DATE EXTRACTED: 05/14/1212:15 05/14/1212:15 DATE COLLECTED: 04/20/12  
 DATE ANALYZED: 05/14/1215:56 05/14/1215:58 DATE RECEIVED: 04/20/12  
 PREP. BATCH: HGE010S HGE010S  
 CALIB. REF: M47E011008 M47E011008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D208                           Date Extracted: 04/30/12 11:44
Sample ID:   SL-524-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 21:57
Lab Samp ID: D208-07                           Dilution Factor: 1
Lab File ID: REJ113                             Matrix          : SOIL
Ext Btch ID: SVD053S                            % Moisture     : 6.3
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	5.6J	11	2.7
BENZO (A) PYRENE	3.4J	11	2.7
BENZO (B) FLUORANTHENE	5.0J	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	14	11	2.7
CHRYSENE	8.8J	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	2.9J	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	12	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	254	355.7	71.4	40-130
2-FLUOROBIPHENYL	245	355.7	68.8	45-130
TERPHENYL-D14	320	355.7	90.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D208                           Date Extracted: 04/30/12 11:44
Sample ID    : SL-525-SA5C-SB-0.0-0.5          Date Analyzed: 05/04/12 22:16
Lab Samp ID  : D208-08                           Dilution Factor: 1
Lab File ID  : REJ114                             Matrix          : SOIL
Ext Btch ID  : SVD053S                           % Moisture     : 5.9
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	7.5J	11	2.7
BENZO (A) PYRENE	14	11	2.7
BENZO (B) FLUORANTHENE	13	11	2.7
BENZO (K) FLUORANTHENE	4.0J	11	2.7
BENZO (G, H, I) PERYLENE	25	11	2.7
CHRYSENE	7.8J	11	2.7
DIBENZO (A, H) ANTHRACENE	3.0J	11	2.7
FLUORANTHENE	5.2J	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	6.8J	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	8.1J	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	15	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	199	354.2	56.3	40-130
2-FLUOROBIPHENYL	204	354.2	57.5	45-130
TERPHENYL-D14	312	354.2	88.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D208                           Date Extracted: 04/30/12 11:44
Sample ID    : MBLK1S                            Date Analyzed: 05/03/12 11:53
Lab Samp ID  : SVD053SB                         Dilution Factor: 1
Lab File ID  : REJ043                            Matrix          : SOIL
Ext Btch ID  : SVD053S                           % Moisture     : NA
Calib. Ref.  : RAJ290                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	258	333.3	77.5	40-130
2-FLUOROBIPHENYL	242	333.3	72.6	45-130
TERPHENYL-D14	322	333.3	96.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D208  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVD053SB SVD053SL SVD053SC  
LAB FILE ID: REJ043 REJ044 REJ045  
DATE EXTRACTED: 04/30/1211:44 04/30/1211:44 04/30/1211:44 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1211:53 05/03/1212:12 05/03/1212:31 DATE RECEIVED: 04/30/12  
PREP. BATCH: SVD053S SVD053S SVD053S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	279	84	333	286	86	3	10-130	50
Acenaphthylene	ND	333	316	95	333	323	97	2	20-130	50
Anthracene	ND	333	269	81	333	284	85	5	20-130	50
Benzo (a) anthracene	ND	333	310	93	333	343	103	10	30-130	50
Benzo (a) pyrene	ND	333	343	103	333	364	109	6	30-130	50
Benzo (b) fluoranthene	ND	333	355	107	333	391	117	10	40-130	50
Benzo (k) fluoranthene	ND	333	357	107	333	365	110	2	30-140	50
Benzo (g, h, i) perylene	ND	333	370	111	333	383	115	3	30-140	50
Chrysene	ND	333	294	88	333	325	97	10	30-140	50
Dibenzo (a, h) anthracene	ND	333	375	113	333	388	116	3	40-140	50
Fluoranthene	ND	333	319	96	333	348	104	9	30-130	50
Fluorene	ND	333	318	95	333	317	95	1	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	376	113	333	389	117	3	20-160	50
Naphthalene	ND	333	253	76	333	266	80	5	10-130	50
Phenanthrene	ND	333	269	81	333	283	85	5	20-130	50
2-Methylnaphthalene	ND	333	282	85	333	292	87	3	30-150	50
1-Methylnaphthalene	ND	333	281	84	333	291	87	3	30-150	50
N-Nitrosodimethylamine	ND	333	262	79	333	303	91	15	30-150	50
Pyrene	ND	333	304	91	333	335	100	9	20-150	50
Azobenzene	ND	333	262	79	333	309	93	16	30-150	50
Benzo (e) pyrene	ND	333	345	103	333	337	101	2	30-150	50
Biphenyl	ND	333	271	81	333	257	77	5	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	253	76	333	280	84	40-130
2-Fluorobiphenyl	333	242	73	333	235	70	45-130
Terphenyl-d14	333	301	90	333	306	92	45-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D208                           Date Extracted: 04/27/12 10:10
Sample ID:   SL-524-SA5C-SB-0.0-0.5            Date Analyzed: 04/28/12 13:51
Lab Samp ID: D208-07                            Dilution Factor: 1
Lab File ID: LD27081A                           Matrix          : SOIL
Ext Btch ID: DSD047S                             % Moisture     : 6.3
Calib. Ref.: LD27075A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	3.3J	5.3	2.7
EFH(C21-C30)	100	5.3	2.7
EFH(C30-C40)	63	11	5.3
TOTAL EFH(C8-C40)	170	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.9	106.7	73.0	50-150
HEXACOSANE	27.3	26.68	102	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D208                           Date Extracted: 04/27/12 10:10
Sample ID:   SL-525-SA5C-SB-0.0-0.5           Date Analyzed: 04/28/12 13:34
Lab Samp ID: D208-08                           Dilution Factor: 1
Lab File ID: LD27080A                          Matrix          : SOIL
Ext Btch ID: DSD047S                           % Moisture     : 5.9
Calib. Ref.: LD27075A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	21	5.3	2.7
EFH(C30-C40)	19	11	5.3
TOTAL EFH(C8-C40)	40	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.4	106.3	70.0	50-150
HEXACOSANE	22.4	26.57	84.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/27/12
Batch No.    : 12D208                           Date Extracted: 04/27/12 10:10
Sample ID    : MBLK1S                            Date Analyzed: 04/28/12 06:46
Lab Samp ID  : DSD047SB                         Dilution Factor: 1
Lab File ID  : LD27056A                         Matrix          : SOIL
Ext Btch ID  : DSD047S                          % Moisture      : NA
Calib. Ref.  : LD27051A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.9	100.0	74.9	50-150
HEXACOSANE	20.4	25.00	81.8	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D208  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSD047SB DSD047SL DSD047SC  
LAB FILE ID: LD27056A LD27054A LD27055A  
DATE EXTRACTED: 04/27/1210:10 04/27/1210:10 04/27/1210:10 DATE COLLECTED: NA  
DATE ANALYZED: 04/28/1206:46 04/28/1206:13 04/28/1206:30 DATE RECEIVED: 04/27/12  
PREP. BATCH: DSD047S DSD047S DSD047S  
CALIB. REF: LD27051A LD27051A LD27051A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	464	93	500	453	91	2	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	78.0	78	100	77.7	78	50-150
Hexacosane	25.0	20.7	83	25.0	20.6	83	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/23/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D208                           Date Extracted: 05/01/12 15:20
Sample ID    : SL-635-SA5C-SB-2.0-3.0          Date Analyzed: 05/04/12 03:32
Lab Samp ID  : D208-01                           Dilution Factor: 1
Lab File ID  : KE03021A                          Matrix          : SOIL
Ext Btch ID  : CPE001S                            % Moisture     : 14.1
Calib. Ref.  : KE03018A                          Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(16.31)   12.16	15.52	(105)   78.4	45-120
TETRACHLORO-M-XYLENE	(16.38)   11.82	15.52	(106)   76.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                       Date Received: 04/24/12
Batch No.    : 12D208                             Date Extracted: 05/01/12 15:20
Sample ID    : SL-556A-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 04:25
Lab Samp ID  : D208-02                            Dilution Factor: 1
Lab File ID  : KE03022A                           Matrix          : SOIL
Ext Btch ID  : CPE001S                             % Moisture     : 8.7
Calib. Ref.  : KE03018A                           Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.08)   9.156	14.60	(96.4)   62.7	45-120
TETRACHLORO-M-XYLENE	(15.13)   11.21	14.60	(104)   76.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D208                           Date Extracted: 05/01/12 15:20
Sample ID    : SL-557A-SA5C-SB-0.0-0.5         Date Analyzed: 05/04/12 05:18
Lab Samp ID  : D208-03                          Dilution Factor: 1
Lab File ID  : KE03023A                        Matrix          : SOIL
Ext Btch ID  : CPE001S                          % Moisture     : 5.0
Calib. Ref.  : KE03018A                        Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.90)   9.036	14.03	(99.1)   64.4	45-120
TETRACHLORO-M-XYLENE	(15.01)   10.24	14.03	(107)   73.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                       Date Received: 04/24/12
Batch No.    : 12D208                             Date Extracted: 05/01/12 15:20
Sample ID    : SL-557B-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 06:11
Lab Samp ID  : D208-04                             Dilution Factor: 1
Lab File ID  : KE03024A                           Matrix          : SOIL
Ext Btch ID  : CPE001S                             % Moisture     : 7.8
Calib. Ref.  : KE03018A                           Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(40)   30	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.92)   8.862	14.46	(96.3)   61.3	45-120
TETRACHLORO-M-XYLENE	(14.96)   11.45	14.46	(103)   79.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D208                           Date Extracted: 05/01/12 15:20
Sample ID:   SL-557C-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 07:04
Lab Samp ID: D208-05                             Dilution Factor: 1
Lab File ID: KE03025A                           Matrix          : SOIL
Ext Btch ID: CPE001S                             % Moisture     : 4.6
Calib. Ref.: KE03018A                           Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(96)   70	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.00)   9.250	13.97	(100)   66.2	45-120
TETRACHLORO-M-XYLENE	(14.87)   10.92	13.97	(106)   78.2	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D208                           Date Extracted: 05/01/12 15:20
Sample ID    : SL-557D-SA5C-SB-0.0-0.5         Date Analyzed: 05/04/12 07:57
Lab Samp ID  : D208-06                           Dilution Factor: 1
Lab File ID  : KE03026A                         Matrix          : SOIL
Ext Btch ID  : CPE001S                          % Moisture     : 5.2
Calib. Ref.  : KE03018A                         Instrument ID   : GCT071
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(68)   43	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.44)   8.383	14.06	(95.6)   59.6	45-120
TETRACHLORO-M-XYLENE	(14.91)   11.63	14.06	(106)   82.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D208                           Date Extracted: 05/01/12 15:20
Sample ID    : SL-524-SA5C-SB-0.0-0.5          Date Analyzed: 05/04/12 08:50
Lab Samp ID  : D208-07                           Dilution Factor: 1
Lab File ID  : KE03027A                         Matrix          : SOIL
Ext Btch ID  : CPE001S                          % Moisture     : 6.3
Calib. Ref.  : KE03018A                         Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	28   (18J)	21	11   11	
AROCLOR 1260	15J   (18J)	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(64)   57	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(12.75)   7.928	14.23	(89.6)   55.7	45-120
TETRACHLORO-M-XYLENE	(14.53)   10.07	14.23	(102)   70.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D208                           Date Extracted: 05/01/12 15:20
Sample ID    : SL-525-SA5C-SB-0.0-0.5          Date Analyzed: 05/04/12 13:16
Lab Samp ID  : D208-08                           Dilution Factor: 1
Lab File ID  : KE03032A                          Matrix          : SOIL
Ext Btch ID  : CPE001S                           % Moisture     : 5.9
Calib. Ref.  : KE03029A                          Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(28)   25	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.47)   8.574	14.17	(95.1)   60.5	45-120
TETRACHLORO-M-XYLENE	(15.16)   11.04	14.17	(107)   77.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                       Date Received: 04/24/12
Batch No.    : 12D208                             Date Extracted: 05/01/12 15:20
Sample ID    : SL-556B-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 14:09
Lab Samp ID  : D208-09                            Dilution Factor: 1
Lab File ID  : KE03033A                          Matrix          : SOIL
Ext Btch ID  : CPE001S                            % Moisture     : 7.2
Calib. Ref.  : KE03029A                          Instrument ID   : GCT071
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.87)   8.839	14.36	(96.6)   61.5	45-120
TETRACHLORO-M-XYLENE	(15.44)   11.09	14.36	(107)   77.2	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D208                           Date Extracted: 05/01/12 15:20
Sample ID    : SL-556C-SA5C-SB-0.0-0.5         Date Analyzed: 05/04/12 15:02
Lab Samp ID  : D208-10                           Dilution Factor: 1
Lab File ID  : KE03034A                          Matrix          : SOIL
Ext Btch ID  : CPE001S                            % Moisture     : 5.0
Calib. Ref.  : KE03029A                          Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.48)   9.198	14.03	(96.1)   65.6	45-120
TETRACHLORO-M-XYLENE	(13.78)   9.502	14.03	(98.2)   67.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
Batch No.    : 12D208                           Date Extracted: 05/01/12 15:20
Sample ID    : SL-556D-SA5C-SB-0.0-0.5         Date Analyzed: 05/04/12 15:56
Lab Samp ID  : D208-11                          Dilution Factor: 1
Lab File ID  : KE03035A                        Matrix          : SOIL
Ext Btch ID  : CPE001S                         % Moisture     : 5.7
Calib. Ref.  : KE03029A                        Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.24)   8.431	14.14	(93.6)   59.6	45-120
TETRACHLORO-M-XYLENE	(14.20)   10.26	14.14	(100)   72.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                       Date Received: 04/24/12
Batch No.    : 12D208                             Date Extracted: 05/01/12 15:20
Sample ID    : SL-856D-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 18:35
Lab Samp ID  : D208-12                             Dilution Factor: 1
Lab File ID  : KE03038A                           Matrix          : SOIL
Ext Btch ID  : CPE001S                             % Moisture     : 7.2
Calib. Ref.  : KE03029A                           Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.23)   9.308	14.36	(99.1)   64.8	45-120
TETRACHLORO-M-XYLENE	(15.69)   10.76	14.36	(109)   74.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.   : 12D208                           Date Extracted: 05/01/12 15:20
Sample ID   : MBLK1S                           Date Analyzed: 05/03/12 14:15
Lab Samp ID: 60E001SB                          Dilution Factor: 1
Lab File ID: KE03006A                          Matrix          : SOIL
Ext Btch ID: CPE001S                           % Moisture      : NA
Calib. Ref.: KE03003A                          Instrument ID   : GCT071
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.45)   10.87	13.33	(108)   81.6	45-120
TETRACHLORO-M-XYLENE	(13.78)   12.00	13.33	(103)   90.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D208  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E001SB 60E001SL 60E001SC  
LAB FILE ID: KE03006A KE03007A KE03008A  
DATE EXTRACTED: 05/01/1215:20 05/01/1215:20 05/01/1215:20 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1214:15 05/03/1215:09 05/03/1216:02 DATE RECEIVED: 05/01/12  
PREP. BATCH: CPE001S CPE001S CPE001S  
CALIB. REF: KE03003A KE03003A KE03003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(148)   116	(89)   70	167	(153)   121	(92)   73	(3)   4	50-130	50
Aroclor 1260	(ND)   ND	167	178   (191)	107   (115)	167	179   (190)	107   (114)	1   (1)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(89.4)   85.7	(107)   103	83.3	(89.0)   85.1	(107)   102	(0)   1	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(13.91)   10.52	(104)   78.9	13.33	(13.67)   10.32	(103)   77.4	45-120
Tetrachloro-m-xylene	13.33	(12.49)   10.68	(93.7)   80.1	13.33	(13.21)   10.97	(99.1)   82.3	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D208  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 5.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-556D-SA5C-SB-0.0-0.5  
LAB SAMP ID: D208-11 D208-11M D208-11S  
LAB FILE ID: KE03035A KE03036A KE03037A  
DATE EXTRACTED: 05/01/1215:20 05/01/1215:20 05/01/1215:20 DATE COLLECTED: 04/24/12  
DATE ANALYZED: 05/04/1215:56 05/04/1216:49 05/04/1217:42 DATE RECEIVED: 04/24/12  
PREP. BATCH: CPE001S CPE001S CPE001S  
CALIB. REF: KE03029A KE03029A KE03029A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   22	177	(168)   143	(95)   68	177	(163)   140	(92)   67	(3)   2	20-160	50
Aroclor 1260	(ND)   ND	177	(192)   154	(109)   87	177	(187)   151	(106)   85	(3)   2	20-160	50
Aroclor 5460	(ND)   ND	88.4	(71.8)   58.0	(81)   66	88.4	(69.5)   59.4	(79)   67	(3)   2	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.14	(13.39)   8.576	(94.7)   60.7	14.14	(13.10)   8.388	(92.7)   59.3	45-120
Tetrachloro-m-xylene	14.14	(15.09)   11.41	(107)   80.7	14.14	(14.82)   11.11	(105)   78.6	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
SDG NO.     : 12D208                           Date Extracted: 04/27/12 10:38
Sample ID   : SL-524-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 16:50
Lab Samp ID : D208-07                           Dilution Factor: 1.00
Lab File ID : 98E03073                         Matrix          : SOIL
Ext Btch ID : IMD041S                          % Moisture     : 6.3
Calib. Ref. : 98E03070                         Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12300	107	12.8
Antimony	0.154J	0.534	0.107
Arsenic	3.04	0.534	0.213
Barium	93.0	0.534	0.213
Beryllium	0.487J	0.534	0.0534
Boron	ND	5.34	2.67
Cadmium	0.274J	0.534	0.0534
Calcium	2180	21.3	10.7
Chromium	14.6	0.534	0.213
Cobalt	5.43	0.534	0.0534
Copper	7.21	0.534	0.213
Iron	15300	107	10.7
Lead	6.69	0.534	0.107
Magnesium	2780	10.7	5.34
Manganese	247	0.534	0.267
Molybdenum	0.505J	0.534	0.0534
Nickel	8.37	0.534	0.213
Potassium	2220	107	32.0
Selenium	ND	0.534	0.213
Silver	ND	0.534	0.0534
Sodium	125	107	53.4
Strontium	23.6	0.534	0.267
Thallium	0.201J	0.427	0.0534
Tin	ND	10.7	5.34
Titanium	727	1.07	0.534
Vanadium	30.0	0.534	0.0534
Zinc	41.6	5.34	1.60
Lithium	10.1	2.13	1.07
Phosphorus	198	12.8	6.40
Zirconium	ND	5.34	2.67

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 04/24/12
Project      : SSFL PHASE 3                     Date Received: 04/24/12
SDG NO.     : 12D208                           Date Extracted: 04/27/12 10:38
Sample ID   : SL-525-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 16:55
Lab Samp ID : D208-08                          Dilution Factor: 0.976
Lab File ID : 98E03074                        Matrix          : SOIL
Ext Btch ID : IMD041S                         % Moisture     : 5.9
Calib. Ref. : 98E03070                       Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14900	104	12.4
Antimony	0.172J	0.519	0.104
Arsenic	3.60	0.519	0.207
Barium	103	0.519	0.207
Beryllium	0.594	0.519	0.0519
Boron	3.26J	5.19	2.59
Cadmium	0.316J	0.519	0.0519
Calcium	2800	20.7	10.4
Chromium	16.7	0.519	0.207
Cobalt	6.02	0.519	0.0519
Copper	7.72	0.519	0.207
Iron	18000	104	10.4
Lead	8.23	0.519	0.104
Magnesium	3220	10.4	5.19
Manganese	258	0.519	0.259
Molybdenum	0.539	0.519	0.0519
Nickel	9.13	0.519	0.207
Potassium	2120	104	31.1
Selenium	ND	0.519	0.207
Silver	ND	0.519	0.0519
Sodium	112	104	51.9
Strontium	24.0	0.519	0.259
Thallium	0.237J	0.415	0.0519
Tin	ND	10.4	5.19
Titanium	854	1.04	0.519
Vanadium	33.6	0.519	0.0519
Zinc	47.8	5.19	1.56
Lithium	12.2	2.07	1.04
Phosphorus	154	12.4	6.22
Zirconium	ND	5.19	2.59

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 04/27/12
SDG NO.    : 12D208                           Date Extracted: 04/27/12 10:38
Sample ID   : MBLK1S                           Date Analyzed: 05/03/12 18:35
Lab Samp ID: IMD041SQ                           Dilution Factor: 1
Lab File ID: 98E03096                           Matrix          : SOIL
Ext Btch ID: IMD041S                             % Moisture      : NA
Calib. Ref.: 98E03094                           Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D208  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMD041SQ IMD041SL IMD041SC  
LAB FILE ID: 98E03096 98E03061 98E03062  
DATIME EXTRACTD: 04/27/1210:38 04/27/1210:38 04/27/1210:38 DATE COLLECTED: NA  
DATIME ANALYZD: 05/03/1218:35 05/03/1215:56 05/03/1216:00 DATE RECEIVED: 04/27/12  
PREP. BATCH: NA NA NA  
CALIB. REF: 98E03094 98E03058 98E03058

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2610	105	2500	2710	108	4	80-120	20
Antimony	ND	25.0	25.8	103	25.0	26.0	104	1	80-120	20
Arsenic	ND	25.0	25.0	100	25.0	25.4	102	1	80-120	20
Barium	ND	25.0	26.3	105	25.0	26.5	106	1	80-120	20
Beryllium	ND	25.0	25.0	100	25.0	25.5	102	2	80-120	20
Boron	ND	25.0	25.4	102	25.0	26.3	105	3	80-120	20
Cadmium	ND	25.0	25.1	100	25.0	25.2	101	0	80-120	20
Calcium	ND	2500	2710	108	2500	2780	111	3	80-120	20
Chromium	ND	25.0	24.5	98	25.0	24.9	100	2	80-120	20
Cobalt	ND	25.0	25.4	102	25.0	26.4	106	4	80-120	20
Copper	ND	25.0	23.9	96	25.0	24.2	97	1	80-120	20
Iron	ND	2500	2610	104	2500	2680	107	2	80-120	20
Lead	ND	25.0	25.6	103	25.0	25.9	104	1	80-120	20
Magnesium	ND	2500	2630	105	2500	2740	109	4	80-120	20
Manganese	ND	25.0	25.9	104	25.0	26.7	107	3	80-120	20
Molybdenum	ND	25.0	25.3	101	25.0	25.5	102	1	80-120	20
Nickel	ND	25.0	23.8	95	25.0	24.1	97	1	80-120	20
Potassium	ND	2500	2780	111	2500	2850	114	2	80-120	20
Selenium	ND	25.0	24.6	98	25.0	25.1	100	2	80-120	20
Silver	ND	25.0	25.7	103	25.0	25.8	103	1	80-120	20
Sodium	ND	2500	2590	104	2500	2650	106	2	80-120	20
Strontium	ND	25.0	26.4	105	25.0	26.6	106	1	80-120	20
Thallium	ND	25.0	25.7	103	25.0	26.1	104	1	80-120	20
Tin	ND	25.0	28.1	112	25.0	28.4	114	1	80-120	20
Titanium	ND	25.0	25.7	103	25.0	26.7	107	4	80-120	20
Vanadium	ND	25.0	24.8	99	25.0	25.1	100	1	80-120	20
Zinc	ND	50.0	49.6	99	50.0	50.2	100	1	80-120	20
Lithium	ND	25.0	25.9	103	25.0	26.0	104	1	80-120	20
Phosphorus	ND	250	251	100	250	256	102	2	80-120	20
Zirconium	ND	25.0	25.3	101	25.0	25.9	103	2	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D208  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 11.0  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-193-NBZ-SS-0.0-0.5  
CONTROL NO.: D176-12 D176-12A  
LAB FILE ID: 98E03064 98E03063  
DATIME EXTRACTD: 04/27/1210:38 04/27/1210:38 DATE COLLECTED: 04/19/12  
DATIME ANALYZD: 05/03/1216:09 05/03/1216:05 DATE RECEIVED: 04/19/12  
PREP. BATCH: IMD041S IMD041S  
CALIB. REF: 98E03058 98E03058

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	10100	2790	13100	106	75-125
Antimony	0.147J	27.9	28.3	101	75-125
Arsenic	5.99	27.9	32.2	94	75-125
Barium	77.5	27.9	111	118	75-125
Beryllium	0.400J	27.9	27.9	98	75-125
Boron	ND	27.9	29.8	107	75-125
Cadmium	0.212J	27.9	27.6	98	75-125
Calcium	2420	2790	5480	109	75-125
Chromium	10.7	27.9	36.1	91	75-125
Cobalt	4.31	27.9	30.6	94	75-125
Copper	5.49	27.9	29.8	87	75-125
Iron	16800	2790	19900	111	75-125
Lead	6.82	27.9	34.5	99	75-125
Magnesium	4010	2790	6800	100	75-125
Manganese	260	27.9	291	114	75-125
Molybdenum	0.368J	27.9	28.2	99	75-125
Nickel	7.65	27.9	31.9	87	75-125
Potassium	3440	2790	6450	108	75-125
Selenium	ND	27.9	26.9	96	75-125
Silver	ND	27.9	27.6	99	75-125
Sodium	ND	2790	2830	101	75-125
Strontium	16.6	27.9	44.8	101	75-125
Thallium	0.223J	27.9	28.1	100	75-125
Tin	ND	27.9	31.2	112	75-125
Titanium	807	27.9	855	170*	75-125
Vanadium	25.1	27.9	51.1	93	75-125
Zinc	48.2	55.9	99.3	91	75-125
Lithium	26.4	27.9	55.9	106	75-125
Phosphorus	311	279	623	112	75-125
Zirconium	ND	27.9	26.9	96	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D208  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 11.0  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-193-NBZ-SS- SL-193-NBZ-SS-  
 EMAX SAMP ID: D176-12 D176-12J  
 LAB FILE ID: 98E03064 98E03065  
 DATE EXTRACTED: 04/27/1210:38 04/27/1210:38 DATE COLLECTED: 04/19/12  
 DATE ANALYZED: 05/03/1216:09 05/03/1216:14 DATE RECEIVED: 04/19/12  
 PREP. BATCH: IMD041S IMD041S  
 CALIB. REF: 98E03058 98E03058

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	10100	10300	2	10
Antimony	0.147J	ND	NA	10
Arsenic	5.99	6.07	1	10
Barium	77.5	76.5	1	10
Beryllium	0.400J	0.354J	NA	10
Boron	ND	ND	0	10
Cadmium	0.212J	ND	NA	10
Calcium	2420	2530	4	10
Chromium	10.7	10.8	1	10
Cobalt	4.31	4.49	4	10
Copper	5.49	5.87	7	10
Iron	16800	17400	3	10
Lead	6.82	6.80	0	10
Magnesium	4010	4070	2	10
Manganese	260	271	5	10
Molybdenum	0.368J	0.382J	NA	10
Nickel	7.65	7.91	3	10
Potassium	3440	3410	1	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	ND	ND	0	10
Strontium	16.6	16.4	1	10
Thallium	0.223J	ND	NA	10
Tin	ND	ND	0	10
Titanium	807	793	2	10
Vanadium	25.1	25.4	1	10
Zinc	48.2	51.5	7	10
Lithium	26.4	23.5	11*	10
Phosphorus	311	317	2	10
Zirconium	ND	ND	0	10

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D208  
=====

Matrix : SOIL  
Instrument ID : NA  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-524-SA5C-SB-0.0-0.5	D208-07	7.16	1	NA	NA	NA	04/25/1217:25	04/25/1217:25	12PHD029S01	PHD029S	PHD029S	04/24/1215:10	04/24/12
SL-525-SA5C-SB-0.0-0.5	D208-08	7.98	1	NA	NA	NA	04/25/1217:29	04/25/1217:25	12PHD029S02	PHD029S	PHD029S	04/24/1214:50	04/24/12
SL-525-SA5C-SB-0.0-0.5DUP	D208-08D	8.02	1	NA	NA	NA	04/25/1217:31	04/25/1217:25	12PHD029S03	PHD029S	PHD029S	04/24/1214:50	04/24/12

METHOD 7471A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D208  
=====

Matrix : SOIL  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE011SB	ND	1	NA	0.100	0.0500	05/14/1216:52	05/14/1212:30	M47E011041	M47E011032	HGE011S	NA	05/14/12
LCS1S	HGE011SL	0.872	1	NA	0.100	0.0500	05/14/1216:54	05/14/1212:30	M47E011042	M47E011032	HGE011S	NA	05/14/12
LCD1S	HGE011SC	0.867	1	NA	0.100	0.0500	05/14/1216:57	05/14/1212:30	M47E011043	M47E011032	HGE011S	NA	05/14/12
SL-525-SA5C-SB-0.0-0.5	D208-08	0.405	0.998	5.9	0.106	0.0530	05/14/1217:31	05/14/1212:30	M47E011059	M47E011056	HGE011S	04/24/12	04/24/12
SL-524-SA5C-SB-0.0-0.5DL	D208-07T	5.34	10.0	6.3	1.07	0.534	05/14/1218:48	05/14/1212:30	M47E011094	M47E011092	HGE011S	04/24/12	04/24/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D208  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE011SB HGE011SL HGE011SC  
LAB FILE ID: M47E011041 M47E011042 M47E011043  
DATIME EXTRCTD: 05/14/1212:30 05/14/1212:30 05/14/1212:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/14/1216:52 05/14/1216:54 05/14/1216:57 DATE RECEIVED: 05/14/12  
PREP. BATCH: HGE011S HGE011S HGE011S  
CALIB. REF: M47E011032 M47E011032 M47E011032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.872	105	.833	.867	104	1	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D208  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
CONTROL NO.: D256-02 D256-02A  
LAB FILE ID: M47E011047 M47E011046  
DATIME EXTRCTD: 05/14/1212:30 05/14/1212:30 DATE COLLECTED: 04/26/12  
DATIME ANALYZD: 05/14/1217:05 05/14/1217:03 DATE RECEIVED: 04/26/12  
PREP. BATCH: HGE011S HGE011S  
CALIB. REF: M47E011044 M47E011044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.899	.948	105	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D208  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 7.5  
 DILUTION FACTOR: 0.998 4.99  
 SAMPLE ID: SL-695-SA5C-SB-0.0- SL-695-SA5C-SB-0.0-  
 EMAX SAMP ID: D256-02 D256-02J  
 LAB FILE ID: M47E011047 M47E011048  
 DATE EXTRACTED: 05/14/1212:30 05/14/1212:30 DATE COLLECTED: 04/26/12  
 DATE ANALYZED: 05/14/1217:05 05/14/1217:07 DATE RECEIVED: 04/26/12  
 PREP. BATCH: HGE011S HGE011S  
 CALIB. REF: M47E011044 M47E011044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID    : SL-522-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 18:55
Lab Samp ID  : D231-01                          Dilution Factor: 1
Lab File ID  : REL100                            Matrix          : SOIL
Ext Btch ID  : SVE001S                          % Moisture     : 7.9
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	176	361.9	48.6	40-130
2-FLUOROBIPHENYL	189	361.9	52.3	45-130
TERPHENYL-D14	328	361.9	90.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-527-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 19:21
Lab Samp ID: D231-02                           Dilution Factor: 1
Lab File ID: REL101                            Matrix          : SOIL
Ext Btch ID: SVE001S                          % Moisture     : 7.2
Calib. Ref.: RDL204                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	243	359.2	67.7	40-130
2-FLUOROBIPHENYL	257	359.2	71.5	45-130
TERPHENYL-D14	338	359.2	94.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-528-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 19:48
Lab Samp ID: D231-03                           Dilution Factor: 1
Lab File ID: REL102                             Matrix          : SOIL
Ext Btch ID: SVE001S                           % Moisture     : 5.4
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.6
ACENAPHTHYLENE	ND	11	2.6
ANTHRACENE	ND	11	2.6
BENZO (A) ANTHRACENE	ND	11	2.6
BENZO (A) PYRENE	ND	11	2.6
BENZO (B) FLUORANTHENE	ND	11	2.6
BENZO (K) FLUORANTHENE	ND	11	2.6
BENZO (G, H, I) PERYLENE	ND	11	2.6
CHRYSENE	ND	11	2.6
DIBENZO (A, H) ANTHRACENE	ND	11	2.6
FLUORANTHENE	ND	11	2.6
FLUORENE	ND	11	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.6
NAPHTHALENE	ND	11	2.6
PHENANTHRENE	ND	11	2.6
2-METHYLNAPHTHALENE	ND	11	2.6
1-METHYLNAPHTHALENE	ND	11	2.6
N-NITROSODIMETHYLAMINE	ND	11	2.6
PYRENE	ND	11	2.6
AZOBENZENE	ND	5.3	2.6
BENZO (E) PYRENE	ND	5.3	2.6
BIPHENYL	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	181	352.3	51.4	40-130
2-FLUOROBIPHENYL	197	352.3	55.8	45-130
TERPHENYL-D14	313	352.3	88.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-529-SA5C-SB-0.0-0.5            Date Analyzed: 05/03/12 21:35
Lab Samp ID: D231-04                            Dilution Factor: 1
Lab File ID: REL106                             Matrix          : SOIL
Ext Btch ID: SVE001S                           % Moisture     : 5.3
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.6
ACENAPHTHYLENE	ND	11	2.6
ANTHRACENE	ND	11	2.6
BENZO (A) ANTHRACENE	ND	11	2.6
BENZO (A) PYRENE	ND	11	2.6
BENZO (B) FLUORANTHENE	4.7J	11	2.6
BENZO (K) FLUORANTHENE	ND	11	2.6
BENZO (G, H, I) PERYLENE	ND	11	2.6
CHRYSENE	ND	11	2.6
DIBENZO (A, H) ANTHRACENE	ND	11	2.6
FLUORANTHENE	2.8J	11	2.6
FLUORENE	ND	11	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.6
NAPHTHALENE	ND	11	2.6
PHENANTHRENE	ND	11	2.6
2-METHYLNAPHTHALENE	ND	11	2.6
1-METHYLNAPHTHALENE	ND	11	2.6
N-NITROSODIMETHYLAMINE	ND	11	2.6
PYRENE	ND	11	2.6
AZOBENZENE	ND	5.3	2.6
BENZO (E) PYRENE	5.2J	5.3	2.6
BIPHENYL	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	177	352.0	50.2	40-130
2-FLUOROBIPHENYL	190	352.0	54.0	45-130
TERPHENYL-D14	273	352.0	77.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-530-SA5C-SB-0.0-0.5            Date Analyzed: 05/05/12 02:10
Lab Samp ID: D231-05                           Dilution Factor: 1
Lab File ID: REL134                             Matrix          : SOIL
Ext Btch ID: SVE001S                            % Moisture     : 6.4
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	3.8J	11	2.7
BENZO (B) FLUORANTHENE	6.7J	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	3.3J	11	2.7
CHRYSENE	2.8J	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	4.9J	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	4.0J	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	7.1	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	240	356.1	67.4	40-130
2-FLUOROBIPHENYL	233	356.1	65.3	45-130
TERPHENYL-D14	350	356.1	98.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-623-SA5C-SB-0.0-0.5            Date Analyzed: 05/05/12 02:37
Lab Samp ID: D231-06W                           Dilution Factor: 1
Lab File ID: REL135                             Matrix          : SOIL
Ext Btch ID: SVE001S                           % Moisture     : 6.7
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	23	11	2.7
BENZO (A) PYRENE	27	11	2.7
BENZO (B) FLUORANTHENE	37	11	2.7
BENZO (K) FLUORANTHENE	14	11	2.7
BENZO (G, H, I) PERYLENE	10J	11	2.7
CHRYSENE	27	11	2.7
DIBENZO (A, H) ANTHRACENE	2.9J	11	2.7
FLUORANTHENE	44	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	7.1J	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	17	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	39	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	28	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	223	357.2	62.3	40-130
2-FLUOROBIPHENYL	226	357.2	63.4	45-130
TERPHENYL-D14	345	357.2	96.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-523-SA5C-SB-0.0-0.5           Date Analyzed: 05/05/12 03:03
Lab Samp ID: D231-07                           Dilution Factor: 2
Lab File ID: REL136                             Matrix          : SOIL
Ext Btch ID: SVE001S                            % Moisture      : 4.3
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.2
ACENAPHTHYLENE	ND	21	5.2
ANTHRACENE	ND	21	5.2
BENZO (A) ANTHRACENE	ND	21	5.2
BENZO (A) PYRENE	ND	21	5.2
BENZO (B) FLUORANTHENE	ND	21	5.2
BENZO (K) FLUORANTHENE	ND	21	5.2
BENZO (G, H, I) PERYLENE	8.2J	21	5.2
CHRYSENE	ND	21	5.2
DIBENZO (A, H) ANTHRACENE	ND	21	5.2
FLUORANTHENE	ND	21	5.2
FLUORENE	ND	21	5.2
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.2
NAPHTHALENE	ND	21	5.2
PHENANTHRENE	ND	21	5.2
2-METHYLNAPHTHALENE	ND	21	5.2
1-METHYLNAPHTHALENE	ND	21	5.2
N-NITROSODIMETHYLAMINE	ND	21	5.2
PYRENE	ND	21	5.2
AZOBENZENE	ND	10	5.2
BENZO (E) PYRENE	9.4J	10	5.2
BIPHENYL	ND	10	5.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	233	348.3	66.8	40-130
2-FLUOROBIPHENYL	217	348.3	62.2	45-130
TERPHENYL-D14	310	348.3	89.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-523-SA5C-SB-0.0-0.5           Date Analyzed: 05/09/12 20:23
Lab Samp ID: D231-07W                          Dilution Factor: 2
Lab File ID: REL157                             Matrix          : SOIL
Ext Btch ID: SVE001S                            % Moisture     : 4.3
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.2
ACENAPHTHYLENE	ND	21	5.2
ANTHRACENE	ND	21	5.2
BENZO (A) ANTHRACENE	ND	21	5.2
BENZO (A) PYRENE	ND	21	5.2
BENZO (B) FLUORANTHENE	ND	21	5.2
BENZO (K) FLUORANTHENE	ND	21	5.2
BENZO (G, H, I) PERYLENE	10J	21	5.2
CHRYSENE	ND	21	5.2
DIBENZO (A, H) ANTHRACENE	ND	21	5.2
FLUORANTHENE	5.4J	21	5.2
FLUORENE	ND	21	5.2
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.2
NAPHTHALENE	ND	21	5.2
PHENANTHRENE	ND	21	5.2
2-METHYLNAPHTHALENE	ND	21	5.2
1-METHYLNAPHTHALENE	ND	21	5.2
N-NITROSODIMETHYLAMINE	ND	21	5.2
PYRENE	ND	21	5.2
AZOBENZENE	ND	10	5.2
BENZO (E) PYRENE	12	10	5.2
BIPHENYL	ND	10	5.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	258	348.3	74.1	40-130
2-FLUOROBIPHENYL	266	348.3	76.5	45-130
TERPHENYL-D14	324	348.3	93.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID    : SL-526-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 19:30
Lab Samp ID  : D231-08W                         Dilution Factor: 1
Lab File ID  : REL155                           Matrix          : SOIL
Ext Btch ID  : SVE001S                          % Moisture     : 9.7
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	2.9J	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	3.5J	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	4.8J	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	217	369.1	58.9	40-130
2-FLUOROBIPHENYL	228	369.1	61.7	45-130
TERPHENYL-D14	312	369.1	84.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-531-SA5C-SB-0.0-0.5           Date Analyzed: 05/09/12 19:57
Lab Samp ID: D231-09W                           Dilution Factor: 1
Lab File ID: REL156                             Matrix          : SOIL
Ext Btch ID: SVE001S                            % Moisture     : 7.4
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	3.2J	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	3.0J	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	5.5	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	183	359.9	50.8	40-130
2-FLUOROBIPHENYL	236	359.9	65.7	45-130
TERPHENYL-D14	380	359.9	106	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-698-SA5C-SB-0.0-0.5           Date Analyzed: 05/05/12 04:25
Lab Samp ID: D231-10                           Dilution Factor: 2
Lab File ID: REL139                             Matrix          : SOIL
Ext Btch ID: SVE001S                           % Moisture     : 7.4
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.4
ACENAPHTHYLENE	ND	22	5.4
ANTHRACENE	ND	22	5.4
BENZO (A) ANTHRACENE	6.8J	22	5.4
BENZO (A) PYRENE	15J	22	5.4
BENZO (B) FLUORANTHENE	20J	22	5.4
BENZO (K) FLUORANTHENE	16J	22	5.4
BENZO (G, H, I) PERYLENE	8.4J	22	5.4
CHRYSENE	8.6J	22	5.4
DIBENZO (A, H) ANTHRACENE	ND	22	5.4
FLUORANTHENE	14J	22	5.4
FLUORENE	ND	22	5.4
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.4
NAPHTHALENE	ND	22	5.4
PHENANTHRENE	ND	22	5.4
2-METHYLNAPHTHALENE	ND	22	5.4
1-METHYLNAPHTHALENE	ND	22	5.4
N-NITROSODIMETHYLAMINE	ND	22	5.4
PYRENE	11J	22	5.4
AZOBENZENE	ND	11	5.4
BENZO (E) PYRENE	20	11	5.4
BIPHENYL	ND	11	5.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	237	359.9	65.8	40-130
2-FLUOROBIPHENYL	238	359.9	66.2	45-130
TERPHENYL-D14	343	359.9	95.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-698-SA5C-SB-0.0-0.5            Date Analyzed: 05/09/12 20:49
Lab Samp ID: D231-10W                           Dilution Factor: 2
Lab File ID: REL158                             Matrix          : SOIL
Ext Btch ID: SVE001S                           % Moisture     : 7.4
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.4
ACENAPHTHYLENE	ND	22	5.4
ANTHRACENE	ND	22	5.4
BENZO (A) ANTHRACENE	6.6J	22	5.4
BENZO (A) PYRENE	18J	22	5.4
BENZO (B) FLUORANTHENE	23	22	5.4
BENZO (K) FLUORANTHENE	18J	22	5.4
BENZO (G, H, I) PERYLENE	12J	22	5.4
CHRYSENE	8.1J	22	5.4
DIBENZO (A, H) ANTHRACENE	5.5J	22	5.4
FLUORANTHENE	19J	22	5.4
FLUORENE	ND	22	5.4
INDENO (1, 2, 3-CD) PYRENE	7.1J	22	5.4
NAPHTHALENE	ND	22	5.4
PHENANTHRENE	ND	22	5.4
2-METHYLNAPHTHALENE	ND	22	5.4
1-METHYLNAPHTHALENE	ND	22	5.4
N-NITROSODIMETHYLAMINE	ND	22	5.4
PYRENE	14J	22	5.4
AZOBENZENE	ND	11	5.4
BENZO (E) PYRENE	26	11	5.4
BIPHENYL	ND	11	5.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	248	359.9	69.0	40-130
2-FLUOROBIPHENYL	267	359.9	74.3	45-130
TERPHENYL-D14	386	359.9	107	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-699-SA5C-SB-0.0-0.5           Date Analyzed: 05/05/12 04:52
Lab Samp ID: D231-11                           Dilution Factor: 2
Lab File ID: REL140                             Matrix          : SOIL
Ext Btch ID: SVE001S                           % Moisture     : 8.9
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	8.4J	22	5.5
BENZO (A) ANTHRACENE	92	22	5.5
BENZO (A) PYRENE	110	22	5.5
BENZO (B) FLUORANTHENE	200	22	5.5
BENZO (K) FLUORANTHENE	72	22	5.5
BENZO (G, H, I) PERYLENE	28	22	5.5
CHRYSENE	73	22	5.5
DIBENZO (A, H) ANTHRACENE	11J	22	5.5
FLUORANTHENE	170	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	29	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	33	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	130	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	90	11	5.5
BIPHENYL	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	251	365.9	68.5	40-130
2-FLUOROBIPHENYL	230	365.9	62.9	45-130
TERPHENYL-D14	278	365.9	75.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID:   SL-699-SA5C-SB-0.0-0.5            Date Analyzed: 05/09/12 21:15
Lab Samp ID: D231-11W                           Dilution Factor: 2
Lab File ID: REL159                             Matrix          : SOIL
Ext Btch ID: SVE001S                            % Moisture     : 8.9
Calib. Ref.: RDL204                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	11J	22	5.5
BENZO (A) ANTHRACENE	100	22	5.5
BENZO (A) PYRENE	120	22	5.5
BENZO (B) FLUORANTHENE	220	22	5.5
BENZO (K) FLUORANTHENE	73	22	5.5
BENZO (G, H, I) PERYLENE	34	22	5.5
CHRYSENE	92	22	5.5
DIBENZO (A, H) ANTHRACENE	11J	22	5.5
FLUORANTHENE	230	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	31	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	39	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	180	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	110	11	5.5
BIPHENYL	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	260	365.9	71.0	40-130
2-FLUOROBIPHENYL	282	365.9	77.2	45-130
TERPHENYL-D14	361	365.9	98.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 11:42
Sample ID    : MBLK1S                           Date Analyzed: 05/03/12 14:29
Lab Samp ID  : SVE001SB                         Dilution Factor: 1
Lab File ID  : REL090                           Matrix          : SOIL
Ext Btch ID  : SVE001S                           % Moisture     : NA
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	241	333.3	72.3	40-130
2-FLUOROBIPHENYL	253	333.3	76.0	45-130
TERPHENYL-D14	299	333.3	89.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D231  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE001SB SVE001SL SVE001SC  
LAB FILE ID: REL090 REL088 REL089  
DATE EXTRACTED: 05/01/1211:42 05/01/1211:42 05/01/1211:42 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1214:29 05/03/1213:40 05/03/1214:03 DATE RECEIVED: 05/01/12  
PREP. BATCH: SVE001S SVE001S SVE001S  
CALIB. REF: RDL204 RDL204 RDL204

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	321	96	333	302	91	6	10-130	50
Acenaphthylene	ND	333	351	105	333	327	98	7	20-130	50
Anthracene	ND	333	300	90	333	283	85	6	20-130	50
Benzo (a) anthracene	ND	333	372	112	333	366	110	2	30-130	50
Benzo (a) pyrene	ND	333	407	122	333	394	118	3	30-130	50
Benzo (b) fluoranthene	ND	333	406	122	333	428	128	5	40-130	50
Benzo (k) fluoranthene	ND	333	375	112	333	375	113	0	30-140	50
Benzo (g, h, i) perylene	ND	333	457	137	333	444	133	3	30-140	50
Chrysene	ND	333	348	104	333	341	102	2	30-140	50
Dibenzo (a, h) anthracene	ND	333	466	140	333	452	136	3	40-140	50
Fluoranthene	ND	333	382	115	333	374	112	2	30-130	50
Fluorene	ND	333	340	102	333	319	96	6	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	466	140	333	452	136	3	20-160	50
Naphthalene	ND	333	311	93	333	289	87	7	10-130	50
Phenanthrene	ND	333	309	93	333	286	86	8	20-130	50
2-Methylnaphthalene	ND	333	351	105	333	326	98	7	30-150	50
1-Methylnaphthalene	ND	333	344	103	333	320	96	7	30-150	50
N-Nitrosodimethylamine	ND	333	328	99	333	295	89	11	30-150	50
Pyrene	ND	333	350	105	333	343	103	2	20-150	50
Azobenzene	ND	333	272	82	333	254	76	7	30-150	50
Benzo (e) pyrene	ND	333	343	103	333	397	119	14	30-150	50
Biphenyl	ND	333	265	79	333	278	83	5	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	254	76	333	246	74	40-130
2-Fluorobiphenyl	333	269	81	333	264	79	45-130
Terphenyl-d14	333	318	95	333	330	99	45-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

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=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 10:45
Sample ID:   SL-527-SA5C-SB-0.0-0.5            Date Analyzed: 05/02/12 04:19
Lab Samp ID: D231-02                            Dilution Factor: 1
Lab File ID: LE01039A                          Matrix          : SOIL
Ext Btch ID: DSE001S                            % Moisture     : 7.2
Calib. Ref.: LE01034A                          Instrument ID  : GCT105
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.9	107.8	69.5	50-150
HEXACOSANE	21.3	26.94	78.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 10:45
Sample ID:   SL-528-SA5C-SB-0.0-0.5           Date Analyzed: 05/02/12 04:37
Lab Samp ID: D231-03                           Dilution Factor: 1
Lab File ID: LE01040A                          Matrix          : SOIL
Ext Btch ID: DSE001S                            % Moisture     : 5.4
Calib. Ref.: LE01034A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.6
EFH(C12-C14)	ND	5.3	2.6
EFH(C15-C20)	ND	5.3	2.6
EFH(C21-C30)	ND	5.3	2.6
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.8	105.7	74.6	50-150
HEXACOSANE	22.3	26.43	84.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 10:45
Sample ID    : SL-529-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 05:11
Lab Samp ID  : D231-04                           Dilution Factor: 1
Lab File ID  : LE01042A                          Matrix          : SOIL
Ext Btch ID  : DSE001S                           % Moisture     : 5.3
Calib. Ref. : LE01034A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.6
EFH(C12-C14)	ND	5.3	2.6
EFH(C15-C20)	ND	5.3	2.6
EFH(C21-C30)	10	5.3	2.6
EFH(C30-C40)	25	11	5.3
TOTAL EFH(C8-C40)	35	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.4	105.6	68.6	50-150
HEXACOSANE	21.3	26.40	80.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 10:45
Sample ID:   SL-526-SA5C-SB-0.0-0.5           Date Analyzed: 05/02/12 05:28
Lab Samp ID: D231-08                           Dilution Factor: 1
Lab File ID: LE01043A                          Matrix          : SOIL
Ext Btch ID: DSE001S                            % Moisture     : 9.7
Calib. Ref.: LE01034A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	27	5.5	2.8
EFH(C30-C40)	40	11	5.5
TOTAL EFH(C8-C40)	67	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.5	110.7	70.8	50-150
HEXACOSANE	24.0	27.69	86.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/01/12 10:45
Sample ID:   SL-698-SA5C-SB-0.0-0.5            Date Analyzed: 05/02/12 05:45
Lab Samp ID: D231-10                            Dilution Factor: 1
Lab File ID: LE01044A                           Matrix          : SOIL
Ext Btch ID: DSE001S                             % Moisture     : 7.4
Calib. Ref.: LE01034A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	50	5.4	2.7
EFH(C30-C40)	78	11	5.4
TOTAL EFH(C8-C40)	130	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.8	108.0	72.0	50-150
HEXACOSANE	25.1	27.00	92.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                       Date Received: 04/25/12
Batch No.    : 12D231                             Date Extracted: 05/01/12 10:45
Sample ID:   SL-699-SA5C-SB-0.0-0.5              Date Analyzed: 05/02/12 06:01
Lab Samp ID: D231-11                             Dilution Factor: 1
Lab File ID: LE01045A                            Matrix          : SOIL
Ext Btch ID: DSE001S                             % Moisture     : 8.9
Calib. Ref.: LE01034A                            Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	28	5.5	2.7
EFH(C30-C40)	62	11	5.5
TOTAL EFH(C8-C40)	90	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.1	109.8	70.2	50-150
HEXACOSANE	24.7	27.44	90.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/01/12
Batch No.    : 12D231                             Date Extracted: 05/01/12 10:45
Sample ID    : MBLK1S                             Date Analyzed: 05/02/12 03:29
Lab Samp ID  : DSE001SB                           Dilution Factor: 1
Lab File ID  : LE01036A                           Matrix          : SOIL
Ext Btch ID  : DSE001S                             % Moisture      : NA
Calib. Ref.  : LE01034A                           Instrument ID    : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.6	100.0	71.6	50-150
HEXACOSANE	19.8	25.00	79.0	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D231  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE001SB DSE001SL DSE001SC  
LAB FILE ID: LE01036A LE01037A LE01038A  
DATE EXTRACTED: 05/01/1210:45 05/01/1210:45 05/01/1210:45 DATE COLLECTED: NA  
DATE ANALYZED: 05/02/1203:29 05/02/1203:45 05/02/1204:03 DATE RECEIVED: 05/01/12  
PREP. BATCH: DSE001S DSE001S DSE001S  
CALIB. REF: LE01034A LE01034A LE01034A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	498	100	500	474	95	5	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	81.6	82	100	76.5	76	50-150
Hexacosane	25.0	21.4	86	25.0	20.1	80	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/02/12 16:51
Sample ID    : SL-522-SA5C-SB-0.0-0.5          Date Analyzed: 05/08/12 23:18
Lab Samp ID  : D231-01                          Dilution Factor: 1
Lab File ID  : SE08011A                        Matrix          : SOIL
Ext Btch ID  : CPE002S                          % Moisture     : 7.9
Calib. Ref.  : SE08002A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.21   (13.53)	14.47	91.3   (93.5)	45-120
TETRACHLORO-M-XYLENE	(11.94)   11.36	14.47	(82.5)   78.5	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 04/25/12
Project    : SSFL PHASE 3                       Date Received: 04/25/12
Batch No.  : 12D231                             Date Extracted: 05/02/12 16:51
Sample ID  : SL-527-SA5C-SB-0.0-0.5           Date Analyzed: 05/08/12 23:53
Lab Samp ID: D231-02                           Dilution Factor: 1
Lab File ID: SE08012A                          Matrix          : SOIL
Ext Btch ID: CPE002S                           % Moisture     : 7.2
Calib. Ref.: SE08002A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.57   (13.66)	14.36	94.5   (95.1)	45-120
TETRACHLORO-M-XYLENE	(11.24)   10.76	14.36	(78.3)   74.9	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 04/25/12
Project    : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.  : 12D231                           Date Extracted: 05/02/12 16:51
Sample ID  : SL-528-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 00:27
Lab Samp ID: D231-03                          Dilution Factor: 1
Lab File ID: SE08013A                         Matrix          : SOIL
Ext Btch ID: CPE002S                          % Moisture     : 5.4
Calib. Ref.: SE08002A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.26   (13.54)	14.09	94.1   (96.1)	45-120
TETRACHLORO-M-XYLENE	(12.01)   11.56	14.09	(85.3)   82.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/02/12 16:51
Sample ID    : SL-529-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 01:01
Lab Samp ID  : D231-04                          Dilution Factor: 1
Lab File ID  : SE08014A                        Matrix          : SOIL
Ext Btch ID  : CPE002S                          % Moisture     : 5.3
Calib. Ref.  : SE08002A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.60   (13.98)	14.08	89.5   (99.3)	45-120
TETRACHLORO-M-XYLENE	(12.37)   11.78	14.08	(87.9)   83.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/02/12 16:51
Sample ID    : SL-530-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 01:35
Lab Samp ID  : D231-05                          Dilution Factor: 1
Lab File ID  : SE08015A                        Matrix          : SOIL
Ext Btch ID  : CPE002S                          % Moisture     : 6.4
Calib. Ref.  : SE08002A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.56   (12.65)	14.24	81.1   (88.9)	45-120
TETRACHLORO-M-XYLENE	(12.61)   12.31	14.24	(88.5)   86.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/02/12 16:51
Sample ID    : SL-623-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 02:09
Lab Samp ID  : D231-06                           Dilution Factor: 1
Lab File ID  : SE08016A                          Matrix          : SOIL
Ext Btch ID  : CPE002S                            % Moisture     : 6.7
Calib. Ref.  : SE08002A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.74   (12.78)	14.29	82.1   (89.4)	45-120
TETRACHLORO-M-XYLENE	(12.63)   12.21	14.29	(88.4)   85.5	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/02/12 16:51
Sample ID    : SL-523-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 02:44
Lab Samp ID  : D231-07                           Dilution Factor: 1
Lab File ID  : SE08017A                           Matrix          : SOIL
Ext Btch ID  : CPE002S                            % Moisture     : 4.3
Calib. Ref.  : SE08002A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	10.24   (11.04)	13.93	73.5   (79.3)	45-120
TETRACHLORO-M-XYLENE	(11.55)   11.40	13.93	(82.9)   81.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/02/12 16:51
Sample ID    : SL-526-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 03:18
Lab Samp ID  : D231-08                           Dilution Factor: 1
Lab File ID  : SE08018A                          Matrix          : SOIL
Ext Btch ID  : CPE002S                            % Moisture     : 9.7
Calib. Ref.  : SE08002A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.23   (12.93)	14.76	82.8   (87.6)	45-120
TETRACHLORO-M-XYLENE	(13.28)   13.06	14.76	(90.0)   88.5	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/25/12
Project      : SSFL PHASE 3                     Date Received: 04/25/12
Batch No.    : 12D231                           Date Extracted: 05/02/12 16:51
Sample ID    : SL-531-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 03:52
Lab Samp ID  : D231-09                           Dilution Factor: 1
Lab File ID  : SE08019A                          Matrix          : SOIL
Ext Btch ID  : CPE002S                           % Moisture     : 7.4
Calib. Ref.  : SE08002A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	10.84   (11.67)	14.40	75.3   (81.1)	45-120
TETRACHLORO-M-XYLENE	(12.69)   12.54	14.40	(88.1)   87.1	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/02/12
Batch No.    : 12D231                             Date Extracted: 05/02/12 16:51
Sample ID    : MBLK1S                             Date Analyzed: 05/08/12 19:53
Lab Samp ID  : 60E002SB                           Dilution Factor: 1
Lab File ID  : SE08005A                           Matrix          : SOIL
Ext Btch ID  : CPE002S                             % Moisture      : NA
Calib. Ref.  : SE08002A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.84   (13.93)	13.33	104   (105)	45-120
TETRACHLORO-M-XYLENE	(12.01)   11.31	13.33	(90.1)   84.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D231  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E002SB 60E002SL 60E002SC  
LAB FILE ID: SE08005A SE08006A SE08007A  
DATE EXTRACTED: 05/02/1216:51 05/02/1216:51 05/02/1216:51 DATE COLLECTED: NA  
DATE ANALYZED: 05/08/1219:53 05/08/1220:27 05/08/1221:01 DATE RECEIVED: 05/02/12  
PREP. BATCH: CPE002S CPE002S CPE002S  
CALIB. REF: SE08002A SE08002A SE08002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(161)   156	(97)   94	167	(159)   153	(95)   92	(1)   2	50-130	50
Aroclor 1260	(ND)   ND	167	165   (166)	99   (100)	167	162   (164)	97   (98)	2   (1)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(92.1)   81.3	(111)   98	83.3	(86.5)   76.8	(104)   92	(6)   6	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	13.53   (13.62)	101   (102)	13.33	13.16   (13.27)	98.7   (99.5)	45-120
Tetrachloro-m-xylene	13.33	(11.58)   10.91	(86.9)   81.8	13.33	(11.43)   10.75	(85.7)   80.6	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/25/12
Project    : SSFL PHASE 3                     Date Received: 04/25/12
SDG NO.    : 12D231                           Date Extracted: 05/01/12 10:30
Sample ID: SL-522-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 17:52
Lab Samp ID: D231-01                         Dilution Factor: 1.00
Lab File ID: 98E04036                       Matrix          : SOIL
Ext Btch ID: IMD048S                        % Moisture     : 7.9
Calib. Ref.: 98E04030                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13300	109	13.0
Antimony	0.213J	0.543	0.109
Arsenic	4.21	0.543	0.217
Barium	136	0.543	0.217
Beryllium	0.645	0.543	0.0543
Boron	3.60J	5.43	2.71
Cadmium	0.396J	0.543	0.0543
Calcium	2380	21.7	10.9
Chromium	18.9	0.543	0.217
Cobalt	7.44	0.543	0.0543
Copper	11.8	0.543	0.217
Iron	19200	109	10.9
Lead	8.68	0.543	0.109
Magnesium	3620	10.9	5.43
Manganese	463	0.543	0.271
Molybdenum	0.754	0.543	0.0543
Nickel	12.5	0.543	0.217
Potassium	3310	109	32.6
Selenium	ND	0.543	0.217
Silver	ND	0.543	0.0543
Sodium	74.5J	109	54.3
Strontium	23.9	0.543	0.271
Thallium	0.305J	0.434	0.0543
Tin	ND	10.9	5.43
Titanium	895	1.09	0.543
Vanadium	37.5	0.543	0.0543
Zinc	53.8	5.43	1.63
Lithium	12.8	2.17	1.09
Phosphorus	222	13.0	6.51
Zirconium	ND	5.43	2.71

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/25/12
Project    : SSFL PHASE 3                     Date Received: 04/25/12
SDG NO.    : 12D231                           Date Extracted: 05/01/12 10:30
Sample ID  : SL-527-SA5C-SB-0.0-0.5          Date Analyzed: 05/04/12 17:56
Lab Samp ID: D231-02                           Dilution Factor: 0.957
Lab File ID: 98E04037                          Matrix          : SOIL
Ext Btch ID: IMD048S                           % Moisture     : 7.2
Calib. Ref.: 98E04030                          Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14500	103	12.4
Antimony	0.185J	0.516	0.103
Arsenic	4.11	0.516	0.206
Barium	96.9	0.516	0.206
Beryllium	0.660	0.516	0.0516
Boron	ND	5.16	2.58
Cadmium	0.113J	0.516	0.0516
Calcium	1740	20.6	10.3
Chromium	17.8	0.516	0.206
Cobalt	6.90	0.516	0.0516
Copper	5.70	0.516	0.206
Iron	18600	103	10.3
Lead	6.47	0.516	0.103
Magnesium	3020	10.3	5.16
Manganese	263	0.516	0.258
Molybdenum	0.608	0.516	0.0516
Nickel	8.60	0.516	0.206
Potassium	1590	103	30.9
Selenium	ND	0.516	0.206
Silver	0.0563J	0.516	0.0516
Sodium	139	103	51.6
Strontium	20.0	0.516	0.258
Thallium	0.251J	0.412	0.0516
Tin	ND	10.3	5.16
Titanium	873	1.03	0.516
Vanadium	36.5	0.516	0.0516
Zinc	32.7	5.16	1.55
Lithium	11.3	2.06	1.03
Phosphorus	143	12.4	6.19
Zirconium	ND	5.16	2.58

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/25/12
Project     : SSFL PHASE 3                     Date Received: 04/25/12
SDG NO.    : 12D231                           Date Extracted: 05/01/12 10:30
Sample ID:  SL-528-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 18:01
Lab Samp ID: D231-03                          Dilution Factor: 0.976
Lab File ID: 98E04038                         Matrix          : SOIL
Ext Btch ID: IMD048S                          % Moisture     : 5.4
Calib. Ref.: 98E04030                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11400	103	12.4
Antimony	0.204J	0.516	0.103
Arsenic	3.29	0.516	0.206
Barium	97.5	0.516	0.206
Beryllium	0.547	0.516	0.0516
Boron	3.16J	5.16	2.58
Cadmium	0.214J	0.516	0.0516
Calcium	1950	20.6	10.3
Chromium	15.6	0.516	0.206
Cobalt	6.00	0.516	0.0516
Copper	8.31	0.516	0.206
Iron	15700	103	10.3
Lead	6.42	0.516	0.103
Magnesium	2810	10.3	5.16
Manganese	326	0.516	0.258
Molybdenum	0.698	0.516	0.0516
Nickel	9.30	0.516	0.206
Potassium	2270	103	31.0
Selenium	ND	0.516	0.206
Silver	ND	0.516	0.0516
Sodium	139	103	51.6
Strontium	19.0	0.516	0.258
Thallium	0.233J	0.413	0.0516
Tin	ND	10.3	5.16
Titanium	789	1.03	0.516
Vanadium	30.5	0.516	0.0516
Zinc	35.7	5.16	1.55
Lithium	9.66	2.06	1.03
Phosphorus	170	12.4	6.19
Zirconium	ND	5.16	2.58

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/25/12
Project     : SSFL PHASE 3                     Date Received: 04/25/12
SDG NO.    : 12D231                           Date Extracted: 05/01/12 10:30
Sample ID:  SL-529-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 18:06
Lab Samp ID: D231-04                          Dilution Factor: 0.995
Lab File ID: 98E04039                         Matrix          : SOIL
Ext Btch ID: IMD048S                          % Moisture     : 5.3
Calib. Ref.: 98E04030                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12400	105	12.6
Antimony	0.220J	0.525	0.105
Arsenic	3.68	0.525	0.210
Barium	112	0.525	0.210
Beryllium	0.559	0.525	0.0525
Boron	3.46J	5.25	2.63
Cadmium	0.260J	0.525	0.0525
Calcium	2420	21.0	10.5
Chromium	15.8	0.525	0.210
Cobalt	6.40	0.525	0.0525
Copper	9.77	0.525	0.210
Iron	17600	105	10.5
Lead	8.20	0.525	0.105
Magnesium	3590	10.5	5.25
Manganese	333	0.525	0.263
Molybdenum	0.701	0.525	0.0525
Nickel	9.78	0.525	0.210
Potassium	2780	105	31.5
Selenium	ND	0.525	0.210
Silver	ND	0.525	0.0525
Sodium	116	105	52.5
Strontium	20.9	0.525	0.263
Thallium	0.257J	0.420	0.0525
Tin	ND	10.5	5.25
Titanium	913	1.05	0.525
Vanadium	35.2	0.525	0.0525
Zinc	67.3	5.25	1.58
Lithium	11.8	2.10	1.05
Phosphorus	247	12.6	6.30
Zirconium	ND	5.25	2.63

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/25/12
Project    : SSFL PHASE 3                       Date Received: 04/25/12
SDG NO.    : 12D231                             Date Extracted: 05/01/12 10:30
Sample ID  : SL-530-SA5C-SB-0.0-0.5            Date Analyzed: 05/04/12 18:10
Lab Samp ID: D231-05                             Dilution Factor: 0.976
Lab File ID: 98E04040                           Matrix          : SOIL
Ext Btch ID: IMD048S                             % Moisture     : 6.4
Calib. Ref.: 98E04030                           Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14900	104	12.5
Antimony	0.182J	0.521	0.104
Arsenic	3.74	0.521	0.209
Barium	122	0.521	0.209
Beryllium	0.565	0.521	0.0521
Boron	2.82J	5.21	2.61
Cadmium	0.200J	0.521	0.0521
Calcium	2910	20.9	10.4
Chromium	17.1	0.521	0.209
Cobalt	5.45	0.521	0.0521
Copper	8.41	0.521	0.209
Iron	18700	104	10.4
Lead	7.16	0.521	0.104
Magnesium	4030	10.4	5.21
Manganese	242	0.521	0.261
Molybdenum	0.400J	0.521	0.0521
Nickel	9.99	0.521	0.209
Potassium	2780	104	31.3
Selenium	ND	0.521	0.209
Silver	ND	0.521	0.0521
Sodium	106	104	52.1
Strontium	22.1	0.521	0.261
Thallium	0.230J	0.417	0.0521
Tin	ND	10.4	5.21
Titanium	958	1.04	0.521
Vanadium	36.0	0.521	0.0521
Zinc	49.3	5.21	1.56
Lithium	17.1	2.09	1.04
Phosphorus	296	12.5	6.26
Zirconium	ND	5.21	2.61

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/25/12
Project    : SSFL PHASE 3                     Date Received: 04/25/12
SDG NO.    : 12D231                           Date Extracted: 05/01/12 10:30
Sample ID: SL-623-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 18:47
Lab Samp ID: D231-06                         Dilution Factor: 0.995
Lab File ID: 98E04048                       Matrix          : SOIL
Ext Btch ID: IMD048S                        % Moisture     : 6.7
Calib. Ref.: 98E04042                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11700	107	12.8
Antimony	0.234J	0.533	0.107
Arsenic	4.61	0.533	0.213
Barium	125	0.533	0.213
Beryllium	0.468J	0.533	0.0533
Boron	3.59J	5.33	2.67
Cadmium	0.225J	0.533	0.0533
Calcium	2830	21.3	10.7
Chromium	15.3	0.533	0.213
Cobalt	5.88	0.533	0.0533
Copper	10.1	0.533	0.213
Iron	17300	107	10.7
Lead	6.53	0.533	0.107
Magnesium	3920	10.7	5.33
Manganese	300	0.533	0.267
Molybdenum	0.544	0.533	0.0533
Nickel	9.40	0.533	0.213
Potassium	3230	107	32.0
Selenium	ND	0.533	0.213
Silver	ND	0.533	0.0533
Sodium	124	107	53.3
Strontium	25.3	0.533	0.267
Thallium	0.232J	0.427	0.0533
Tin	ND	10.7	5.33
Titanium	976	1.07	0.533
Vanadium	33.8	0.533	0.0533
Zinc	54.1	5.33	1.60
Lithium	12.6	2.13	1.07
Phosphorus	348	12.8	6.40
Zirconium	ND	5.33	2.67

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/25/12
Project     : SSFL PHASE 3                     Date Received: 04/25/12
SDG NO.    : 12D231                           Date Extracted: 05/01/12 10:30
Sample ID:  SL-523-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 18:52
Lab Samp ID: D231-07                          Dilution Factor: 0.980
Lab File ID: 98E04049                         Matrix          : SOIL
Ext Btch ID: IMD048S                          % Moisture     : 4.3
Calib. Ref.: 98E04042                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8530	102	12.3
Antimony	0.221J	0.512	0.102
Arsenic	2.56	0.512	0.205
Barium	80.5	0.512	0.205
Beryllium	0.358J	0.512	0.0512
Boron	3.26J	5.12	2.56
Cadmium	0.192J	0.512	0.0512
Calcium	2350	20.5	10.2
Chromium	14.8	0.512	0.205
Cobalt	3.98	0.512	0.0512
Copper	7.06	0.512	0.205
Iron	13000	102	10.2
Lead	4.88	0.512	0.102
Magnesium	2580	10.2	5.12
Manganese	201	0.512	0.256
Molybdenum	0.426J	0.512	0.0512
Nickel	7.29	0.512	0.205
Potassium	1830	102	30.7
Selenium	ND	0.512	0.205
Silver	ND	0.512	0.0512
Sodium	84.8J	102	51.2
Strontium	30.0	0.512	0.256
Thallium	0.150J	0.410	0.0512
Tin	ND	10.2	5.12
Titanium	563	1.02	0.512
Vanadium	31.1	0.512	0.0512
Zinc	33.6	5.12	1.54
Lithium	8.59	2.05	1.02
Phosphorus	256	12.3	6.14
Zirconium	ND	5.12	2.56

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/25/12
Project     : SSFL PHASE 3                     Date Received: 04/25/12
SDG NO.    : 12D231                           Date Extracted: 05/01/12 10:30
Sample ID: SL-526-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 18:56
Lab Samp ID: D231-08                         Dilution Factor: 0.962
Lab File ID: 98E04050                       Matrix          : SOIL
Ext Btch ID: IMD048S                        % Moisture     : 9.7
Calib. Ref.: 98E04042                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13300	107	12.8
Antimony	0.260J	0.533	0.107
Arsenic	3.89	0.533	0.213
Barium	106	0.533	0.213
Beryllium	0.634	0.533	0.0533
Boron	4.82J	5.33	2.66
Cadmium	0.223J	0.533	0.0533
Calcium	2770	21.3	10.7
Chromium	17.0	0.533	0.213
Cobalt	6.83	0.533	0.0533
Copper	8.84	0.533	0.213
Iron	17600	107	10.7
Lead	7.47	0.533	0.107
Magnesium	3350	10.7	5.33
Manganese	288	0.533	0.266
Molybdenum	0.594	0.533	0.0533
Nickel	9.80	0.533	0.213
Potassium	2340	107	32.0
Selenium	ND	0.533	0.213
Silver	ND	0.533	0.0533
Sodium	91.2J	107	53.3
Strontium	23.5	0.533	0.266
Thallium	0.245J	0.426	0.0533
Tin	ND	10.7	5.33
Titanium	798	1.07	0.533
Vanadium	34.2	0.533	0.0533
Zinc	43.7	5.33	1.60
Lithium	11.4	2.13	1.07
Phosphorus	180	12.8	6.39
Zirconium	ND	5.33	2.66

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/25/12
Project     : SSFL PHASE 3                     Date Received: 04/25/12
SDG NO.    : 12D231                           Date Extracted: 05/01/12 10:30
Sample ID: SL-531-SA5C-SB-0.0-0.5             Date Analyzed: 05/04/12 19:01
Lab Samp ID: D231-09                           Dilution Factor: 0.985
Lab File ID: 98E04051                         Matrix          : SOIL
Ext Btch ID: IMD048S                          % Moisture     : 7.4
Calib. Ref.: 98E04042                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11800	106	12.8
Antimony	0.216J	0.532	0.106
Arsenic	4.16	0.532	0.213
Barium	110	0.532	0.213
Beryllium	0.588	0.532	0.0532
Boron	3.19J	5.32	2.66
Cadmium	0.328J	0.532	0.0532
Calcium	2190	21.3	10.6
Chromium	16.8	0.532	0.213
Cobalt	6.38	0.532	0.0532
Copper	9.76	0.532	0.213
Iron	17800	106	10.6
Lead	8.21	0.532	0.106
Magnesium	3230	10.6	5.32
Manganese	378	0.532	0.266
Molybdenum	0.733	0.532	0.0532
Nickel	10.6	0.532	0.213
Potassium	3210	106	31.9
Selenium	ND	0.532	0.213
Silver	ND	0.532	0.0532
Sodium	63.9J	106	53.2
Strontium	20.9	0.532	0.266
Thallium	0.271J	0.425	0.0532
Tin	ND	10.6	5.32
Titanium	805	1.06	0.532
Vanadium	34.5	0.532	0.0532
Zinc	47.2	5.32	1.60
Lithium	12.0	2.13	1.06
Phosphorus	256	12.8	6.38
Zirconium	ND	5.32	2.66

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/01/12
SDG NO.    : 12D231                             Date Extracted: 05/01/12 10:30
Sample ID: MBLK1S                               Date Analyzed: 05/04/12 16:39
Lab Samp ID: IMD048SB                           Dilution Factor: 1
Lab File ID: 98E04020                           Matrix          : SOIL
Ext Btch ID: IMD048S                             % Moisture      : NA
Calib. Ref.: 98E04018                           Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D231  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMD048SB IMD048SL IMD048SC  
LAB FILE ID: 98E04020 98E04021 98E04022  
DATIME EXTRACTD: 05/01/1210:30 05/01/1210:30 05/01/1210:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/04/1216:39 05/04/1216:44 05/04/1216:48 DATE RECEIVED: 05/01/12  
PREP. BATCH: IMD048S IMD048S IMD048S  
CALIB. REF: 98E04018 98E04018 98E04018

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2500	100	2500	2490	100	1	80-120	20
Antimony	ND	25.0	26.8	107	25.0	26.4	106	2	80-120	20
Arsenic	ND	25.0	25.6	102	25.0	25.1	100	2	80-120	20
Barium	ND	25.0	26.2	105	25.0	25.7	103	2	80-120	20
Beryllium	ND	25.0	26.7	107	25.0	25.9	104	3	80-120	20
Boron	ND	25.0	26.8	107	25.0	26.3	105	2	80-120	20
Cadmium	ND	25.0	25.9	104	25.0	25.5	102	2	80-120	20
Calcium	ND	2500	2720	109	2500	2680	107	1	80-120	20
Chromium	ND	25.0	26.1	104	25.0	25.3	101	3	80-120	20
Cobalt	ND	25.0	25.7	103	25.0	25.4	102	1	80-120	20
Copper	ND	25.0	26.1	104	25.0	25.3	101	3	80-120	20
Iron	ND	2500	2700	108	2500	2640	106	2	80-120	20
Lead	ND	25.0	26.6	106	25.0	26.3	105	1	80-120	20
Magnesium	ND	2500	2510	100	2500	2500	100	0	80-120	20
Manganese	ND	25.0	25.6	102	25.0	25.3	101	1	80-120	20
Molybdenum	ND	25.0	25.8	103	25.0	25.4	102	2	80-120	20
Nickel	ND	25.0	25.9	104	25.0	25.2	101	3	80-120	20
Potassium	ND	2500	2700	108	2500	2610	104	3	80-120	20
Selenium	ND	25.0	25.4	102	25.0	24.7	99	3	80-120	20
Silver	ND	25.0	25.7	103	25.0	25.5	102	1	80-120	20
Sodium	ND	2500	2620	105	2500	2570	103	2	80-120	20
Strontium	ND	25.0	26.2	105	25.0	25.8	103	2	80-120	20
Thallium	ND	25.0	26.5	106	25.0	26.2	105	1	80-120	20
Tin	ND	25.0	28.6	115	25.0	28.3	113	1	80-120	20
Titanium	ND	25.0	25.6	102	25.0	25.1	100	2	80-120	20
Vanadium	ND	25.0	26.1	104	25.0	25.3	101	3	80-120	20
Zinc	ND	50.0	51.0	102	50.0	50.1	100	2	80-120	20
Lithium	ND	25.0	26.9	107	25.0	25.9	104	4	80-120	20
Phosphorus	ND	250	240	96	250	237	95	2	80-120	20
Zirconium	ND	25.0	25.9	104	25.0	25.4	101	2	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D231  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
CONTROL NO.: D256-02 D256-02A  
LAB FILE ID: 98E04026 98E04025  
DATIME EXTRACTD: 05/01/1210:30 05/01/1210:30 DATE COLLECTED: 04/26/12  
DATIME ANALYZD: 05/04/1217:06 05/04/1217:02 DATE RECEIVED: 04/26/12  
PREP. BATCH: IMD048S IMD048S  
CALIB. REF: 98E04018 98E04018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	15000	2690	17700	100	75-125
Antimony	0.200J	26.9	28.0	103	75-125
Arsenic	4.01	26.9	29.7	96	75-125
Barium	105	26.9	133	106	75-125
Beryllium	0.621	26.9	27.3	99	75-125
Boron	ND	26.9	28.9	108	75-125
Cadmium	0.168J	26.9	27.0	100	75-125
Calcium	2280	2690	4890	97	75-125
Chromium	19.0	26.9	43.4	91	75-125
Cobalt	5.22	26.9	29.8	92	75-125
Copper	7.51	26.9	31.4	89	75-125
Iron	19200	2690	21700	90	75-125
Lead	5.72	26.9	33.0	101	75-125
Magnesium	3790	2690	6300	93	75-125
Manganese	233	26.9	253	75	75-125
Molybdenum	0.461J	26.9	27.3	100	75-125
Nickel	9.97	26.9	33.9	89	75-125
Potassium	1860	2690	4570	101	75-125
Selenium	ND	26.9	25.9	96	75-125
Silver	ND	26.9	26.2	97	75-125
Sodium	181	2690	2710	94	75-125
Strontium	21.1	26.9	47.6	99	75-125
Thallium	0.263J	26.9	27.6	102	75-125
Tin	ND	26.9	30.5	114	75-125
Titanium	939	26.9	961	80	75-125
Vanadium	36.0	26.9	60.7	92	75-125
Zinc	42.8	53.8	92.8	93	75-125
Lithium	16.6	26.9	45.1	106	75-125
Phosphorus	155	269	414	96	75-125
Zirconium	ND	26.9	28.3	105	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D231  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.5  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-695-SA5C-SB SL-695-SA5C-SB  
 EMAX SAMP ID: D256-02 D256-02J  
 LAB FILE ID: 98E04026 98E04027  
 DATE EXTRACTED: 05/01/1210:30 05/01/1210:30 DATE COLLECTED: 04/26/12  
 DATE ANALYZED: 05/04/1217:06 05/04/1217:11 DATE RECEIVED: 04/26/12  
 PREP. BATCH: IMD048S IMD048S  
 CALIB. REF: 98E04018 98E04018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	15000	16100	7	10
Antimony	0.200J	ND	NA	10
Arsenic	4.01	4.15	4	10
Barium	105	105	0	10
Beryllium	0.621	0.617J	NA	10
Boron	ND	ND	0	10
Cadmium	0.168J	ND	NA	10
Calcium	2280	2470	8	10
Chromium	19.0	20.4	7	10
Cobalt	5.22	5.67	9	10
Copper	7.51	8.46	13*	10
Iron	19200	21000	9	10
Lead	5.72	5.89	3	10
Magnesium	3790	4040	7	10
Manganese	233	253	9	10
Molybdenum	0.461J	0.472J	NA	10
Nickel	9.97	10.8	8	10
Potassium	1860	1990	7	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	181	ND	NA	10
Strontium	21.1	21.1	0	10
Thallium	0.263J	0.286J	NA	10
Tin	ND	ND	0	10
Titanium	939	972	3	10
Vanadium	36.0	38.0	6	10
Zinc	42.8	44.2	3	10
Lithium	16.6	16.7	1	10
Phosphorus	155	161	4	10
Zirconium	ND	ND	0	10

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D231  
=====

Matrix : SOIL  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLD007SB	ND	1	NA	5.00	2.50	04/27/1218:32	04/27/1214:50	ND27040	ND27036	PLD007S	NA	04/27/12
LCS1S	PLD007SL	23.2	1	NA	5.00	2.50	04/27/1218:47	04/27/1214:50	ND27041	ND27036	PLD007S	NA	04/27/12
LCD1S	PLD007SC	25.9	1	NA	5.00	2.50	04/27/1219:01	04/27/1214:50	ND27042	ND27036	PLD007S	NA	04/27/12
MBLK2S	PLD007SQ	ND	1	NA	5.00	2.50	04/27/1219:15	04/27/1214:50	ND27043	ND27036	PLD007S	NA	04/27/12
SL-522-SA5C-SB-0.0-0.5	D231-01	ND	1	7.9	5.43	2.71	04/27/1219:57	04/27/1214:50	ND27046	ND27044	PLD007S	04/25/1211:20	04/25/12
SL-530-SA5C-SB-0.0-0.5	D231-05	ND	1	6.4	5.34	2.67	04/27/1220:11	04/27/1214:50	ND27047	ND27044	PLD007S	04/25/1210:30	04/25/12
SL-623-SA5C-SB-0.0-0.5	D231-06	ND	1	6.7	5.36	2.68	04/27/1220:26	04/27/1214:50	ND27048	ND27044	PLD007S	04/25/1209:55	04/25/12
SL-523-SA5C-SB-0.0-0.5	D231-07	ND	1	4.3	5.22	2.61	04/27/1220:40	04/27/1214:50	ND27049	ND27044	PLD007S	04/25/1214:00	04/25/12
SL-526-SA5C-SB-0.0-0.5	D231-08	ND	1	9.7	5.54	2.77	04/27/1220:54	04/27/1214:50	ND27050	ND27044	PLD007S	04/25/1214:35	04/25/12
SL-531-SA5C-SB-0.0-0.5	D231-09	ND	1	7.4	5.40	2.70	04/27/1221:08	04/27/1214:50	ND27051	ND27044	PLD007S	04/25/1213:25	04/25/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D231  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLD007SB PLD007SL PLD007SC  
LAB FILE ID: ND27040 ND27041 ND27042  
DATE EXTRACTED: 04/27/1214:50 04/27/1214:50 04/27/1214:50 DATE COLLECTED: NA  
DATE ANALYZED: 04/27/1218:32 04/27/1218:47 04/27/1219:01 DATE RECEIVED: 04/27/12  
PREP. BATCH: PLD007S PLD007S PLD007S  
CALIB. REF: ND27036 ND27036 ND27036

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	23.2	93	25.0	25.9	104	11	85-115	20

## METHOD 9045D

PH

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12D231  
 =====

Matrix : SOIL  
 Instrument ID : 53  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-522-SA5C-SB-0.0-0.5	D231-01	6.99	1	NA	NA	NA	04/26/1216:52	04/26/1216:52	12PHD031S01	PHD031S	PHD031S	04/25/1211:20	04/25/12
SL-527-SA5C-SB-0.0-0.5	D231-02	6.68	1	NA	NA	NA	04/26/1217:00	04/26/1216:52	12PHD031S02	PHD031S	PHD031S	04/25/1208:40	04/25/12
SL-528-SA5C-SB-0.0-0.5	D231-03	7.93	1	NA	NA	NA	04/26/1217:02	04/26/1216:52	12PHD031S03	PHD031S	PHD031S	04/25/1209:10	04/25/12
SL-529-SA5C-SB-0.0-0.5	D231-04	7.64	1	NA	NA	NA	04/26/1217:04	04/26/1216:52	12PHD031S04	PHD031S	PHD031S	04/25/1209:30	04/25/12
SL-530-SA5C-SB-0.0-0.5	D231-05	7.33	1	NA	NA	NA	04/26/1217:07	04/26/1216:52	12PHD031S05	PHD031S	PHD031S	04/25/1210:30	04/25/12
SL-623-SA5C-SB-0.0-0.5	D231-06	7.79	1	NA	NA	NA	04/26/1217:10	04/26/1216:52	12PHD031S06	PHD031S	PHD031S	04/25/1209:55	04/25/12
SL-523-SA5C-SB-0.0-0.5	D231-07	7.59	1	NA	NA	NA	04/26/1217:14	04/26/1216:52	12PHD031S07	PHD031S	PHD031S	04/25/1214:00	04/25/12
SL-526-SA5C-SB-0.0-0.5	D231-08	7.72	1	NA	NA	NA	04/26/1217:20	04/26/1216:52	12PHD031S08	PHD031S	PHD031S	04/25/1214:35	04/25/12
SL-531-SA5C-SB-0.0-0.5	D231-09	6.93	1	NA	NA	NA	04/26/1217:25	04/26/1216:52	12PHD031S09	PHD031S	PHD031S	04/25/1213:25	04/25/12
SL-531-SA5C-SB-0.0-0.5DUP	D231-09D	6.95	1	NA	NA	NA	04/26/1217:27	04/26/1216:52	12PHD031S10	PHD031S	PHD031S	04/25/1213:25	04/25/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12D231	DATE RECEIVED:	04/25/12
SAMPLE ID:	SL-531-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	04/26/1216:52
CONTROL NO.:	D231-09D	DATE ANALYZED:	04/26/1217:27

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	6.93	6.95	-0.02	0.10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D231

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE010SB	ND	1	NA	0.100	0.0500	05/14/1215:48	05/14/1212:15	M47E011010	M47E011008	HGE010S	NA	05/14/12
LCS1S	HGE010SL	0.852	1	NA	0.100	0.0500	05/14/1215:50	05/14/1212:15	M47E011011	M47E011008	HGE010S	NA	05/14/12
LCD1S	HGE010SC	0.855	1	NA	0.100	0.0500	05/14/1215:52	05/14/1212:15	M47E011012	M47E011008	HGE010S	NA	05/14/12
SL-522-SA5C-SB-0.0-0.5	D231-01	ND	0.990	7.9	0.107	0.0537	05/14/1216:29	05/14/1212:15	M47E011030	M47E011020	HGE010S	04/25/12	04/25/12
SL-527-SA5C-SB-0.0-0.5	D231-02	ND	0.993	7.2	0.107	0.0535	05/14/1216:31	05/14/1212:15	M47E011031	M47E011020	HGE010S	04/25/12	04/25/12
SL-528-SA5C-SB-0.0-0.5	D231-03	0.266	1.00	5.4	0.106	0.0529	05/14/1216:37	05/14/1212:15	M47E011034	M47E011032	HGE010S	04/25/12	04/25/12
SL-529-SA5C-SB-0.0-0.5	D231-04	0.269	0.993	5.3	0.105	0.0524	05/14/1216:39	05/14/1212:15	M47E011035	M47E011032	HGE010S	04/25/12	04/25/12
SL-530-SA5C-SB-0.0-0.5	D231-05	ND	0.993	6.4	0.106	0.0530	05/14/1216:42	05/14/1212:15	M47E011036	M47E011032	HGE010S	04/25/12	04/25/12
SL-623-SA5C-SB-0.0-0.5	D231-06	0.0588J	1.00	6.7	0.107	0.0536	05/14/1216:44	05/14/1212:15	M47E011037	M47E011032	HGE010S	04/25/12	04/25/12
SL-523-SA5C-SB-0.0-0.5	D231-07	ND	0.993	4.3	0.104	0.0519	05/14/1216:46	05/14/1212:15	M47E011038	M47E011032	HGE010S	04/25/12	04/25/12
SL-526-SA5C-SB-0.0-0.5	D231-08	0.0782J	0.990	9.7	0.110	0.0548	05/14/1216:48	05/14/1212:15	M47E011039	M47E011032	HGE010S	04/25/12	04/25/12
SL-531-SA5C-SB-0.0-0.5	D231-09	ND	0.985	7.4	0.106	0.0532	05/14/1216:50	05/14/1212:15	M47E011040	M47E011032	HGE010S	04/25/12	04/25/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D231  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE010SB HGE010SL HGE010SC  
LAB FILE ID: M47E011010 M47E011011 M47E011012  
DATIME EXTRCTD: 05/14/1212:15 05/14/1212:15 05/14/1212:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/14/1215:48 05/14/1215:50 05/14/1215:52 DATE RECEIVED: 05/14/12  
PREP. BATCH: HGE010S HGE010S HGE010S  
CALIB. REF: M47E011008 M47E011008 M47E011008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.852	102	.833	.855	103	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D231  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 15.7  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-502-SA5C-SB-0.0-0.5  
CONTROL NO.: D191-02 D191-02A  
LAB FILE ID: M47E011014 M47E011013  
DATIME EXTRCTD: 05/14/1212:15 05/14/1212:15 DATE COLLECTED: 04/20/12  
DATIME ANALYZD: 05/14/1215:56 05/14/1215:54 DATE RECEIVED: 04/20/12  
PREP. BATCH: HGE010S HGE010S  
CALIB. REF: M47E011008 M47E011008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.988	1.06	107	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D231  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 15.7  
 DILUTION FACTOR: 1.00 5.00  
 SAMPLE ID: SL-502-SA5C-SB-0.0- SL-502-SA5C-SB-0.0-  
 EMAX SAMP ID: D191-02 D191-02J  
 LAB FILE ID: M47E011014 M47E011015  
 DATE EXTRACTED: 05/14/1212:15 05/14/1212:15 DATE COLLECTED: 04/20/12  
 DATE ANALYZED: 05/14/1215:56 05/14/1215:58 DATE RECEIVED: 04/20/12  
 PREP. BATCH: HGE010S HGE010S  
 CALIB. REF: M47E011008 M47E011008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D231

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE010SB	ND	1	NA	0.100	0.0500	05/14/1215:48	05/14/1212:15	M47E011010	M47E011008	HGE010S	NA	05/14/12
LCS1S	HGE010SL	0.852	1	NA	0.100	0.0500	05/14/1215:50	05/14/1212:15	M47E011011	M47E011008	HGE010S	NA	05/14/12
LCD1S	HGE010SC	0.855	1	NA	0.100	0.0500	05/14/1215:52	05/14/1212:15	M47E011012	M47E011008	HGE010S	NA	05/14/12
SL-522-SA5C-SB-0.0-0.5	D231-01	ND	0.990	7.9	0.107	0.0537	05/14/1216:29	05/14/1212:15	M47E011030	M47E011020	HGE010S	04/25/12	04/25/12
SL-527-SA5C-SB-0.0-0.5	D231-02	ND	0.993	7.2	0.107	0.0535	05/14/1216:31	05/14/1212:15	M47E011031	M47E011020	HGE010S	04/25/12	04/25/12
SL-528-SA5C-SB-0.0-0.5	D231-03	0.266	1.00	5.4	0.106	0.0529	05/14/1216:37	05/14/1212:15	M47E011034	M47E011032	HGE010S	04/25/12	04/25/12
SL-529-SA5C-SB-0.0-0.5	D231-04	0.269	0.993	5.3	0.105	0.0524	05/14/1216:39	05/14/1212:15	M47E011035	M47E011032	HGE010S	04/25/12	04/25/12
SL-530-SA5C-SB-0.0-0.5	D231-05	ND	0.993	6.4	0.106	0.0530	05/14/1216:42	05/14/1212:15	M47E011036	M47E011032	HGE010S	04/25/12	04/25/12
SL-623-SA5C-SB-0.0-0.5	D231-06	0.0588J	1.00	6.7	0.107	0.0536	05/14/1216:44	05/14/1212:15	M47E011037	M47E011032	HGE010S	04/25/12	04/25/12
SL-523-SA5C-SB-0.0-0.5	D231-07	ND	0.993	4.3	0.104	0.0519	05/14/1216:46	05/14/1212:15	M47E011038	M47E011032	HGE010S	04/25/12	04/25/12
SL-526-SA5C-SB-0.0-0.5	D231-08	0.0782J	0.990	9.7	0.110	0.0548	05/14/1216:48	05/14/1212:15	M47E011039	M47E011032	HGE010S	04/25/12	04/25/12
SL-531-SA5C-SB-0.0-0.5	D231-09	ND	0.985	7.4	0.106	0.0532	05/14/1216:50	05/14/1212:15	M47E011040	M47E011032	HGE010S	04/25/12	04/25/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D231  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE010SB HGE010SL HGE010SC  
LAB FILE ID: M47E011010 M47E011011 M47E011012  
DATIME EXTRCTD: 05/14/1212:15 05/14/1212:15 05/14/1212:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/14/1215:48 05/14/1215:50 05/14/1215:52 DATE RECEIVED: 05/14/12  
PREP. BATCH: HGE010S HGE010S HGE010S  
CALIB. REF: M47E011008 M47E011008 M47E011008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.852	102	.833	.855	103	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D231  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 15.7  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-502-SA5C-SB-0.0-0.5  
CONTROL NO.: D191-02 D191-02A  
LAB FILE ID: M47E011014 M47E011013  
DATIME EXTRCTD: 05/14/1212:15 05/14/1212:15 DATE COLLECTED: 04/20/12  
DATIME ANALYZD: 05/14/1215:56 05/14/1215:54 DATE RECEIVED: 04/20/12  
PREP. BATCH: HGE010S HGE010S  
CALIB. REF: M47E011008 M47E011008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.988	1.06	107	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D231  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 15.7  
 DILUTION FACTOR: 1.00 5.00  
 SAMPLE ID: SL-502-SA5C-SB-0.0- SL-502-SA5C-SB-0.0-  
 EMAX SAMP ID: D191-02 D191-02J  
 LAB FILE ID: M47E011014 M47E011015  
 DATE EXTRACTED: 05/14/1212:15 05/14/1212:15 DATE COLLECTED: 04/20/12  
 DATE ANALYZED: 05/14/1215:56 05/14/1215:58 DATE RECEIVED: 04/20/12  
 PREP. BATCH: HGE010S HGE010S  
 CALIB. REF: M47E011008 M47E011008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 7470A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D256  
=====

Matrix : WATER  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGE013WB	ND	1	NA	0.000500	0.000100	05/15/1217:07	05/15/1212:30	M47E012010	M47E012008	HGE013W	NA	05/15/12
LCS1W	HGE013WL	0.00517	1	NA	0.000500	0.000100	05/15/1217:09	05/15/1212:30	M47E012011	M47E012008	HGE013W	NA	05/15/12
LCD1W	HGE013WC	0.00518	1	NA	0.000500	0.000100	05/15/1217:11	05/15/1212:30	M47E012012	M47E012008	HGE013W	NA	05/15/12
EB-042612	D256-08	ND	1	NA	0.000500	0.000100	05/15/1217:27	05/15/1212:30	M47E012019	M47E012008	HGE013W	04/26/12	04/26/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D256  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGE013WB HGE013WL HGE013WC  
LAB FILE ID: M47E012010 M47E012011 M47E012012  
DATIME EXTRCTD: 05/15/1212:30 05/15/1212:30 05/15/1212:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/15/1217:07 05/15/1217:09 05/15/1217:11 DATE RECEIVED: 05/15/12  
PREP. BATCH: HGE013W HGE013W HGE013W  
CALIB. REF: M47E012008 M47E012008 M47E012008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00517	103	.005	.00518	104	0	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D256

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF		MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection	Received
													DATETIME	DATETIME
MBLK1S	HGD031SB	ND	1	NA		0.100	0.0500	05/01/1212:16	04/30/1217:30	M47E001010	M47E001008	HGD031S	NA	04/30/12
LCS1S	HGD031SL	0.877	1	NA		0.100	0.0500	05/01/1212:18	04/30/1217:30	M47E001011	M47E001008	HGD031S	NA	04/30/12
LCD1S	HGD031SC	0.872	1	NA		0.100	0.0500	05/01/1212:20	04/30/1217:30	M47E001012	M47E001008	HGD031S	NA	04/30/12
I-647-HB03-SS0.0AS	D215-01A	0.946	0.998	6.6		0.107	0.0534	05/01/1212:22	04/30/1217:30	M47E001013	M47E001008	HGD031S	04/24/12	04/25/12
I-647-HB03-SS0.0	D215-01	ND	0.998	6.6		0.107	0.0534	05/01/1212:24	04/30/1217:30	M47E001014	M47E001008	HGD031S	04/24/12	04/25/12
I-647-HB03-SS0.0DL	D215-01J	ND	4.99	6.6		0.534	0.267	05/01/1212:26	04/30/1217:30	M47E001015	M47E001008	HGD031S	04/24/12	04/25/12
SL-709-SA5C-SB-0.0-0.5	D256-10	0.574	1.00	4.7		0.105	0.0525	05/01/1213:10	04/30/1217:30	M47E001036	M47E001032	HGD031S	04/26/12	04/26/12
MBLK2S	HGE011SB	ND	1	NA		0.100	0.0500	05/14/1216:52	05/14/1212:30	M47E011041	M47E011032	HGE011S	NA	05/14/12
LCS2S	HGE011SL	0.872	1	NA		0.100	0.0500	05/14/1216:54	05/14/1212:30	M47E011042	M47E011032	HGE011S	NA	05/14/12
LCD2S	HGE011SC	0.867	1	NA		0.100	0.0500	05/14/1216:57	05/14/1212:30	M47E011043	M47E011032	HGE011S	NA	05/14/12
SL-695-SA5C-SB-0.0-0.5AS	D256-02A	0.948	0.998	7.5		0.108	0.0539	05/14/1217:03	05/14/1212:30	M47E011046	M47E011044	HGE011S	04/26/12	04/26/12
SL-695-SA5C-SB-0.0-0.5	D256-02	ND	0.998	7.5		0.108	0.0539	05/14/1217:05	05/14/1212:30	M47E011047	M47E011044	HGE011S	04/26/12	04/26/12
SL-695-SA5C-SB-0.0-0.5DL	D256-02J	ND	4.99	7.5		0.539	0.270	05/14/1217:07	05/14/1212:30	M47E011048	M47E011044	HGE011S	04/26/12	04/26/12
SL-695-SA5C-SB-0.0-0.5MS	D256-02M	0.987	0.998	7.5		0.108	0.0539	05/14/1217:09	05/14/1212:30	M47E011049	M47E011044	HGE011S	04/26/12	04/26/12
SL-695-SA5C-SB-0.0-0.5MSDD	D256-02S	0.973	1.00	7.5		0.108	0.0541	05/14/1217:11	05/14/1212:30	M47E011050	M47E011044	HGE011S	04/26/12	04/26/12
SL-571-SA5C-SB-0.0-0.5	D256-01	ND	0.979	14.4		0.114	0.0572	05/14/1217:13	05/14/1212:30	M47E011051	M47E011044	HGE011S	04/26/12	04/26/12
SL-995-SA5C-SB-0.0-0.5	D256-03	ND	0.990	7.2		0.107	0.0533	05/14/1217:16	05/14/1212:30	M47E011052	M47E011044	HGE011S	04/26/12	04/26/12
SL-702-SA5C-SB-0.0-0.5	D256-06	ND	0.984	6.3		0.105	0.0525	05/14/1217:18	05/14/1212:30	M47E011053	M47E011044	HGE011S	04/26/12	04/26/12
SL-703-SA5C-SB-0.0-0.5	D256-07	ND	0.998	8.4		0.109	0.0545	05/14/1217:21	05/14/1212:30	M47E011054	M47E011044	HGE011S	04/26/12	04/26/12
SL-711-SA5C-SB-0.0-0.5	D256-11	ND	1.00	5.8		0.106	0.0531	05/14/1217:23	05/14/1212:30	M47E011055	M47E011044	HGE011S	04/26/12	04/26/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D256  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGD031SB HGD031SL HGD031SC  
LAB FILE ID: M47E001010 M47E001011 M47E001012  
DATIME EXTRCTD: 04/30/1217:30 04/30/1217:30 04/30/1217:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/01/1212:16 05/01/1212:18 05/01/1212:20 DATE RECEIVED: 04/30/12  
PREP. BATCH: HGD031S HGD031S HGD031S  
CALIB. REF: M47E001008 M47E001008 M47E001008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.877	105	.833	.872	105	1	85-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D256  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK2S  
CONTROL NO.: HGE011SB HGE011SL HGE011SC  
LAB FILE ID: M47E011041 M47E011042 M47E011043  
DATIME EXTRCTD: 05/14/1212:30 05/14/1212:30 05/14/1212:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/14/1216:52 05/14/1216:54 05/14/1216:57 DATE RECEIVED: 05/14/12  
PREP. BATCH: HGE011S HGE011S HGE011S  
CALIB. REF: M47E011032 M47E011032 M47E011032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.872	105	.833	.867	104	1	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D256  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILTN FACTR: 0.998 0.998 1.00  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
CONTROL NO.: D256-02 D256-02M D256-02S  
LAB FILE ID: M47E011047 M47E011049 M47E011050  
DATIME EXTRCTD: 05/14/1212:30 05/14/1212:30 05/14/1212:30 DATE COLLECTED: 04/26/12  
DATIME ANALYZD: 05/14/1217:05 05/14/1217:09 05/14/1217:11 DATE RECEIVED: 04/26/12  
PREP. BATCH: HGE011S HGE011S HGE011S  
CALIB. REF: M47E011044 M47E011044 M47E011044

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.899	.987	110	.901	.973	108	2	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D256  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 6.6  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: I-647-HB03-SS0.0  
CONTROL NO.: D215-01 D215-01A  
LAB FILE ID: M47E001014 M47E001013  
DATIME EXTRCTD: 04/30/1217:30 04/30/1217:30 DATE COLLECTED: 04/24/12  
DATIME ANALYZD: 05/01/1212:24 05/01/1212:22 DATE RECEIVED: 04/25/12  
PREP. BATCH: HGD031S HGD031S  
CALIB. REF: M47E001008 M47E001008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.89	.946	106	85-115

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D256  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
CONTROL NO.: D256-02 D256-02A  
LAB FILE ID: M47E011047 M47E011046  
DATIME EXTRCTD: 05/14/1212:30 05/14/1212:30 DATE COLLECTED: 04/26/12  
DATIME ANALYZD: 05/14/1217:05 05/14/1217:03 DATE RECEIVED: 04/26/12  
PREP. BATCH: HGE011S HGE011S  
CALIB. REF: M47E011044 M47E011044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.899	.948	105	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D256  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	6.6
DILUTION FACTOR:	0.998	4.99		
SAMPLE ID:	I-647-HB03-SS0.0	I-647-HB03-SS0.0DL		
EMAX SAMP ID:	D215-01	D215-01J		
LAB FILE ID:	M47E001014	M47E001015		
DATE EXTRACTED:	04/30/1217:30	04/30/1217:30	DATE COLLECTED:	04/24/12
DATE ANALYZED:	05/01/1212:24	05/01/1212:26	DATE RECEIVED:	04/25/12
PREP. BATCH:	HGD031S	HGD031S		
CALIB. REF:	M47E001008	M47E001008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D256  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 7.5  
 DILUTION FACTOR: 0.998 4.99  
 SAMPLE ID: SL-695-SA5C-SB-0.0- SL-695-SA5C-SB-0.0-  
 EMAX SAMP ID: D256-02 D256-02J  
 LAB FILE ID: M47E011047 M47E011048  
 DATE EXTRACTED: 05/14/1212:30 05/14/1212:30 DATE COLLECTED: 04/26/12  
 DATE ANALYZED: 05/14/1217:05 05/14/1217:07 DATE RECEIVED: 04/26/12  
 PREP. BATCH: HGE011S HGE011S  
 CALIB. REF: M47E011044 M47E011044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 04/30/12 12:15
Sample ID    : EB-042612                        Date Analyzed: 05/03/12 15:48
Lab Samp ID  : D256-08                          Dilution Factor: 1.09
Lab File ID  : REL093                           Matrix          : WATER
Ext Btch ID  : SVD055W                          % Moisture     : NA
Calib. Ref.  : RDL204                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.22	0.11
ACENAPHTHYLENE	ND	0.22	0.11
ANTHRACENE	ND	0.22	0.11
BENZO (A) ANTHRACENE	ND	0.22	0.11
BENZO (A) PYRENE	ND	0.22	0.11
BENZO (B) FLUORANTHENE	ND	0.22	0.11
BENZO (K) FLUORANTHENE	ND	0.22	0.11
BENZO (G, H, I) PERYLENE	ND	0.22	0.11
CHRYSENE	ND	0.22	0.11
DIBENZO (A, H) ANTHRACENE	ND	0.22	0.11
FLUORANTHENE	ND	0.22	0.11
FLUORENE	ND	0.22	0.11
INDENO (1, 2, 3-CD) PYRENE	ND	0.22	0.11
NAPHTHALENE	ND	0.22	0.11
PHENANTHRENE	ND	0.22	0.11
2-METHYLNAPHTHALENE	ND	0.22	0.11
1-METHYLNAPHTHALENE	ND	0.22	0.11
N-NITROSODIMETHYLAMINE	ND	1.1	0.11
PYRENE	ND	0.22	0.11
AZOBENZENE	ND	1.1	0.11
BENZO (E) PYRENE	ND	0.22	0.11
BIPHENYL	ND	2.2	0.55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	11.5	21.80	52.7	40-130
2-FLUOROBIPHENYL	11.6	21.80	53.1	45-130
TERPHENYL-D14	16.9	21.80	77.7	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D256                           Date Extracted: 04/30/12 12:15
Sample ID    : MBLK1W                           Date Analyzed: 05/03/12 12:25
Lab Samp ID  : SVD055WB                        Dilution Factor: 1
Lab File ID  : REL085                          Matrix          : WATER
Ext Btch ID  : SVD055W                         % Moisture     : NA
Calib. Ref.  : RDL204                          Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	15.8	20.00	79.2	40-130
2-FLUOROBIPHENYL	16.2	20.00	80.9	45-130
TERPHENYL-D14	19.4	20.00	96.8	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVD055WB SVD055WL SVD055WC  
LAB FILE ID: REL085 REL086 REL087  
DATE EXTRACTED: 04/30/1212:15 04/30/1212:15 04/30/1212:15 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1212:25 05/03/1212:44 05/03/1213:10 DATE RECEIVED: 04/30/12  
PREP. BATCH: SVD055W SVD055W SVD055W  
CALIB. REF: RDL204 RDL204 RDL204

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	32.0	80	40.0	31.7	79	1	20-130	30
Acenaphthylene	ND	40.0	34.4	86	40.0	35.6	89	3	30-140	30
Anthracene	ND	40.0	32.1	80	40.0	31.7	79	1	40-130	30
Benzo (a) anthracene	ND	40.0	39.1	98	40.0	37.9	95	3	50-130	30
Benzo (a) pyrene	ND	40.0	43.3	108	40.0	42.2	105	3	50-130	30
Benzo (b) fluoranthene	ND	40.0	42.7	107	40.0	41.8	105	2	50-130	30
Benzo (k) fluoranthene	ND	40.0	42.0	105	40.0	41.7	104	1	50-130	30
Benzo (g, h, i) perylene	ND	40.0	48.7	122	40.0	47.2	118	3	30-150	30
Chrysene	ND	40.0	37.2	93	40.0	35.7	89	4	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	48.6	122	40.0	47.0	117	4	40-140	30
Fluoranthene	ND	40.0	40.8	102	40.0	39.6	99	3	40-130	30
Fluorene	ND	40.0	34.0	85	40.0	33.2	83	3	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	48.5	121	40.0	46.8	117	3	40-130	30
Naphthalene	ND	40.0	29.1	73	40.0	29.7	74	2	20-130	30
Phenanthrene	ND	40.0	32.5	81	40.0	32.3	81	1	40-130	30
2-Methylnaphthalene	ND	40.0	33.9	85	40.0	34.1	85	1	30-150	30
1-Methylnaphthalene	ND	40.0	32.9	82	40.0	33.1	83	1	40-150	30
N-Nitrosodimethylamine	ND	40.0	30.5	76	40.0	30.9	77	2	20-150	30
Pyrene	ND	40.0	36.6	92	40.0	35.7	89	3	40-130	30
Azobenzene	ND	40.0	28.6	72	40.0	29.1	73	2	30-150	30
Benzo (e) pyrene	ND	40.0	43.4	109	40.0	41.2	103	5	30-150	30
Biphenyl	ND	40.0	30.9	77	40.0	29.5	74	5	30-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	13.4	67	20.0	13.4	67	40-130
2-Fluorobiphenyl	20.0	14.9	74	20.0	14.8	74	45-130
Terphenyl-d14	20.0	19.7	99	20.0	19.0	95	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/02/12 13:05
Sample ID    : SL-571-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 15:01
Lab Samp ID  : D256-01                           Dilution Factor: 1
Lab File ID  : REJ053                             Matrix          : SOIL
Ext Btch ID  : SVE004S                           % Moisture     : 14.4
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	3.1J	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	296	389.4	76.0	40-130
2-FLUOROBIPHENYL	235	389.4	60.4	45-130
TERPHENYL-D14	317	389.4	81.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/02/12 13:05
Sample ID    : SL-695-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 15:20
Lab Samp ID  : D256-02                          Dilution Factor: 1
Lab File ID  : REJ054                           Matrix          : SOIL
Ext Btch ID  : SVE004S                          % Moisture     : 7.5
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	215	360.3	59.7	40-130
2-FLUOROBIPHENYL	187	360.3	51.8	45-130
TERPHENYL-D14	278	360.3	77.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/02/12 13:05
Sample ID    : SL-995-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 15:38
Lab Samp ID  : D256-03                          Dilution Factor: 1
Lab File ID  : REJ055                           Matrix          : SOIL
Ext Btch ID  : SVE004S                          % Moisture     : 7.2
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	235	359.2	65.5	40-130
2-FLUOROBIPHENYL	205	359.2	57.1	45-130
TERPHENYL-D14	307	359.2	85.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/02/12 13:05
Sample ID    : SL-701-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 15:57
Lab Samp ID  : D256-05                           Dilution Factor: 1
Lab File ID  : REJ056                             Matrix          : SOIL
Ext Btch ID  : SVE004S                           % Moisture     : 6.2
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	ND	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	187	355.3	52.6	40-130
2-FLUOROBIPHENYL	181	355.3	51.0	45-130
TERPHENYL-D14	294	355.3	82.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/02/12 13:05
Sample ID    : SL-703-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 18:09
Lab Samp ID  : D256-07                          Dilution Factor: 2
Lab File ID  : REJ063                           Matrix          : SOIL
Ext Btch ID  : SVE004S                          % Moisture     : 8.4
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	ND	22	5.5
BENZO (A) ANTHRACENE	ND	22	5.5
BENZO (A) PYRENE	ND	22	5.5
BENZO (B) FLUORANTHENE	5.9J	22	5.5
BENZO (K) FLUORANTHENE	ND	22	5.5
BENZO (G, H, I) PERYLENE	7.0J	22	5.5
CHRYSENE	ND	22	5.5
DIBENZO (A, H) ANTHRACENE	ND	22	5.5
FLUORANTHENE	ND	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	ND	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	ND	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	7.4J	11	5.5
BIPHENYL	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	226	363.9	62.1	40-130
2-FLUOROBIPHENYL	210	363.9	57.7	45-130
TERPHENYL-D14	273	363.9	75.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/02/12 13:05
Sample ID    : SL-711-SA5C-SB-0.0-0.5          Date Analyzed: 05/10/12 23:17
Lab Samp ID  : D256-11W                         Dilution Factor: 1
Lab File ID  : REJ278                           Matrix          : SOIL
Ext Btch ID  : SVE004S                          % Moisture     : 5.8
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	3.8J	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	3.0J	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	2.7J	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	3.0J	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	186	353.8	52.5	40-130
2-FLUOROBIPHENYL	182	353.8	51.3	45-130
TERPHENYL-D14	369	353.8	104	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12D256                           Date Extracted: 05/02/12 13:05
Sample ID    : MBLK1S                            Date Analyzed: 05/03/12 13:27
Lab Samp ID  : SVE004SB                         Dilution Factor: 1
Lab File ID  : REJ048                            Matrix          : SOIL
Ext Btch ID  : SVE004S                           % Moisture     : NA
Calib. Ref.  : RAJ290                            Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	288	333.3	86.3	40-130
2-FLUOROBIPHENYL	266	333.3	79.9	45-130
TERPHENYL-D14	307	333.3	92.1	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE004SB SVE004SL SVE004SC  
LAB FILE ID: REJ048 REJ049 REJ050  
DATE EXTRACTED: 05/02/1213:05 05/02/1213:05 05/02/1213:05 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1213:27 05/03/1213:46 05/03/1214:05 DATE RECEIVED: 05/02/12  
PREP. BATCH: SVE004S SVE004S SVE004S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	297	89	333	283	85	5	10-130	50
Acenaphthylene	ND	333	336	101	333	321	96	5	20-130	50
Anthracene	ND	333	294	88	333	286	86	3	20-130	50
Benzo (a) anthracene	ND	333	335	101	333	297	89	12	30-130	50
Benzo (a) pyrene	ND	333	359	108	333	342	103	5	30-130	50
Benzo (b) fluoranthene	ND	333	391	117	333	356	107	9	40-130	50
Benzo (k) fluoranthene	ND	333	351	105	333	344	103	2	30-140	50
Benzo (g, h, i) perylene	ND	333	379	114	333	365	110	4	30-140	50
Chrysene	ND	333	316	95	333	284	85	11	30-140	50
Dibenzo (a, h) anthracene	ND	333	385	116	333	369	111	4	40-140	50
Fluoranthene	ND	333	342	103	333	313	94	9	30-130	50
Fluorene	ND	333	341	102	333	315	94	8	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	387	116	333	368	110	5	20-160	50
Naphthalene	ND	333	268	80	333	266	80	1	10-130	50
Phenanthrene	ND	333	294	88	333	287	86	2	20-130	50
2-Methylnaphthalene	ND	333	298	89	333	291	87	2	30-150	50
1-Methylnaphthalene	ND	333	297	89	333	291	87	2	30-150	50
N-Nitrosodimethylamine	ND	333	277	83	333	314	94	13	30-150	50
Pyrene	ND	333	328	98	333	299	90	9	20-150	50
Azobenzene	ND	333	290	87	333	333	100	14	30-150	50
Benzo (e) pyrene	ND	333	332	100	333	307	92	8	30-150	50
Biphenyl	ND	333	270	81	333	251	75	7	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	266	80	333	292	88	40-130
2-Fluorobiphenyl	333	255	77	333	237	71	45-130
Terphenyl-d14	333	316	95	333	270	81	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
LAB SAMP ID: D256-02 D256-02M D256-02S  
LAB FILE ID: REJ054 REJ279 REJ052  
DATE EXTRACTED: 05/02/1213:05 05/02/1213:05 05/02/1213:05 DATE COLLECTED: 04/26/12  
DATE ANALYZED: 05/03/1215:20 05/10/1223:36 05/03/1214:42 DATE RECEIVED: 04/26/12  
PREP. BATCH: SVE004S SVE004S SVE004S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	360	247	69	360	268	74	8	10-130	50
Acenaphthylene	ND	360	270	75	360	302	84	11	20-130	50
Anthracene	ND	360	287	80	360	288	80	1	20-130	50
Benzo (a) anthracene	ND	360	303	84	360	322	89	6	30-130	50
Benzo (a) pyrene	ND	360	328	91	360	335	93	2	30-130	50
Benzo (b) fluoranthene	ND	360	365	101	360	356	99	2	30-130	50
Benzo (k) fluoranthene	ND	360	323	90	360	354	98	9	30-130	50
Benzo (g, h, i) perylene	ND	360	354	98	360	363	101	2	30-140	50
Chrysene	ND	360	285	79	360	311	86	9	20-130	50
Dibenzo (a, h) anthracene	ND	360	359	100	360	370	103	3	30-130	50
Fluoranthene	ND	360	331	92	360	337	93	2	30-150	50
Fluorene	ND	360	285	79	360	310	86	8	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	360	358	99	360	367	102	3	20-160	50
Naphthalene	ND	360	202	56	360	223	62	10	10-130	50
Phenanthrene	ND	360	291	81	360	297	82	2	20-130	50
2-Methylnaphthalene	ND	360	234	65	360	258	72	10	30-150	50
1-Methylnaphthalene	ND	360	236	65	360	260	72	10	30-150	50
N-Nitrosodimethylamine	ND	360	234	65	360	277	77	17	20-150	50
Pyrene	ND	360	315	87	360	321	89	2	10-160	50
Azobenzene	ND	360	271	75	360	320	89	17	30-150	50
Benzo (e) pyrene	ND	360	298	83	360	307	85	3	30-150	50
Biphenyl	ND	360	199	55	360	217	60	9	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	360	200	56	360	236	66	40-130
2-Fluorobiphenyl	360	174	48	360	198	55	45-130
Terphenyl-d14	360	261	72	360	263	73	45-135

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 04/27/12 14:35
Sample ID:   SL-571-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 11:26
Lab Samp ID: D256-01                           Dilution Factor: 1
Lab File ID: BD30008A                          Matrix          : SOIL
Ext Btch ID: MED004S                           % Moisture     : 14.4
Calib. Ref.: BD30003A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                       Date Received: 04/26/12
Batch No.    : 12D256                             Date Extracted: 04/27/12 14:35
Sample ID:   SL-703-SA5C-SB-0.0-0.5              Date Analyzed: 04/30/12 11:43
Lab Samp ID: D256-07                             Dilution Factor: 1
Lab File ID: BD30009A                            Matrix          : SOIL
Ext Btch ID: MED004S                              % Moisture     : 8.4
Calib. Ref.: BD30003A                            Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	550	270
ISOPROPANOL	ND	550	270
METHANOL	ND	550	270

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 04/27/12
Batch No.    : 12D256                             Date Extracted: 04/27/12 14:35
Sample ID    : MBLK1S                             Date Analyzed: 04/30/12 10:15
Lab Samp ID  : MED004SB                           Dilution Factor: 1
Lab File ID  : BD30004A                           Matrix          : SOIL
Ext Btch ID  : MED004S                             % Moisture     : NA
Calib. Ref.  : BD30003A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MED004SB MED004SL MED004SY  
LAB FILE ID: BD30004A BD30005A BD30007A  
DATE EXTRACTED: 04/27/1214:35 04/27/1214:35 04/27/1214:35 DATE COLLECTED: NA  
DATE ANALYZED: 04/30/1210:15 04/30/1210:29 04/30/1211:08 DATE RECEIVED: 04/27/12  
PREP. BATCH: MED004S MED004S MED004S  
CALIB. REF: BD30003A BD30003A BD30003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	9490	95	10000	9490	95	0	50-150	50
Isopropanol	ND	10000	10000	100	10000	10400	104	4	50-150	50
Methanol	ND	10000	9820	98	10000	9740	97	1	50-150	50

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 04/26/12
Project     : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.   : 12D256                           Date Extracted: 04/30/12 13:40
Sample ID   : EB-042612                        Date Analyzed: 04/30/12 13:40
Lab Samp ID: D256-08                           Dilution Factor: 1
Lab File ID: BD30013A                          Matrix          : WATER
Ext Btch ID: MED004W                           % Moisture     : NA
Calib. Ref.: BD30003A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.   : 12D256                           Date Extracted: 04/30/12 12:00
Sample ID   : MBLK1W                           Date Analyzed: 04/30/12 12:00
Lab Samp ID: MED004WB                         Dilution Factor: 1
Lab File ID: BD30010A                         Matrix          : WATER
Ext Btch ID: MED004W                          % Moisture     : NA
Calib. Ref.: BD30003A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 8015B

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: MED004WB MED004WL MED004WC  
LAB FILE ID: BD30010A BD30011A BD30012A  
DATE EXTRACTED: 04/30/1212:00 04/30/1212:20 04/30/1213:14 DATE COLLECTED: NA  
DATE ANALYZED: 04/30/1212:00 04/30/1212:20 04/30/1213:14 DATE RECEIVED: 04/30/12  
PREP. BATCH: MED004W MED004W MED004W  
CALIB. REF: BD30003A BD30003A BD30003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	10400	104	10000	9860	99	5	50-150	30
Isopropanol	ND	10000	10800	108	10000	10000	100	8	50-150	30
Methanol	ND	10000	9420	94	10000	8750	88	7	50-150	30

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 04/26/12
Project     : SSFL PHASE 3                       Date Received: 04/26/12
Batch No.   : 12D256                             Date Extracted: 04/27/12 14:30
Sample ID   : SL-571-SA5C-SB-0.0-0.5           Date Analyzed: 04/30/12 11:23
Lab Samp ID: D256-01                             Dilution Factor: 1
Lab File ID: TD30010A                           Matrix          : SOIL
Ext Btch ID: PED005S                             % Moisture     : 14.4
Calib. Ref.: TD30004A                           Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	18	8.8
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                       Date Received: 04/26/12
Batch No.    : 12D256                             Date Extracted: 04/27/12 14:30
Sample ID:   SL-703-SA5C-SB-0.0-0.5              Date Analyzed: 04/30/12 11:39
Lab Samp ID: D256-07                             Dilution Factor: 1
Lab File ID: TD30011A                            Matrix          : SOIL
Ext Btch ID: PED005S                             % Moisture     : 8.4
Calib. Ref.: TD30004A                            Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	8.2
ETHYLENE GLYCOL	ND	11	5.5
PROPYLENE GLYCOL	ND	11	5.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 04/27/12
Batch No.   : 12D256                           Date Extracted: 04/27/12 14:30
Sample ID   : MBLK1S                           Date Analyzed: 04/30/12 09:54
Lab Samp ID: PED005SB                         Dilution Factor: 1
Lab File ID: TD30005A                        Matrix          : SOIL
Ext Btch ID: PED005S                          % Moisture     : NA
Calib. Ref.: TD30004A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PED005SB PED005SL PED005SC  
LAB FILE ID: TD30005A TD30006A TD30007A  
DATE EXTRACTED: 04/27/1214:30 04/27/1214:30 04/27/1214:30 DATE COLLECTED: NA  
DATE ANALYZED: 04/30/1209:54 04/30/1210:13 04/30/1210:31 DATE RECEIVED: 04/27/12  
PREP. BATCH: PED005S PED005S PED005S  
CALIB. REF: TD30004A TD30004A TD30004A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	47.5	95	50.0	47.5	95	0	50-150	50
Ethylene Glycol	ND	50.0	44.1	88	50.0	44.9	90	2	50-150	50
Propylene Glycol	ND	25.0	23.5	94	25.0	24.5	98	4	50-150	50

METHOD 8015M  
GLYCOLS

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 04/30/12 14:03
Sample ID    : EB-042612                        Date Analyzed: 04/30/12 14:03
Lab Samp ID  : D256-08                          Dilution Factor: 1
Lab File ID  : TD30016A                         Matrix          : WATER
Ext Btch ID  : PED007W                          % Moisture     : NA
Calib. Ref.  : TD30012A                         Instrument ID   : GCT050
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.   : 12D256                           Date Extracted: 04/30/12 12:13
Sample ID   : MBLK1W                           Date Analyzed: 04/30/12 12:13
Lab Samp ID: PED007WB                         Dilution Factor: 1
Lab File ID: TD30013A                        Matrix          : WATER
Ext Btch ID: PED007W                          % Moisture     : NA
Calib. Ref.: TD30012A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 8015M

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PED007WB PED007WL PED007WC  
LAB FILE ID: TD30013A TD30014A TD30015A  
DATE EXTRACTED: 04/30/1212:13 04/30/1213:28 04/30/1213:46 DATE COLLECTED: NA  
DATE ANALYZED: 04/30/1212:13 04/30/1213:28 04/30/1213:46 DATE RECEIVED: 04/30/12  
PREP. BATCH: PED007W PED007W PED007W  
CALIB. REF: TD30012A TD30012A TD30012A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	50.0	100	50.0	54.3	109	8	50-150	30
Ethylene Glycol	ND	50.0	45.6	91	50.0	47.7	95	4	50-150	30
Propylene Glycol	ND	25.0	22.8	91	25.0	23.3	93	2	50-150	30

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/01/12 10:45
Sample ID:   SL-571-SA5C-SB-0.0-0.5           Date Analyzed: 05/02/12 09:24
Lab Samp ID: D256-01                            Dilution Factor: 1
Lab File ID: LE01057A                          Matrix          : SOIL
Ext Btch ID: DSE001S                            % Moisture     : 14.4
Calib. Ref.: LE01046A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	8.5	5.8	2.9
EFH(C30-C40)	21	12	5.8
TOTAL EFH(C8-C40)	30	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	83.1	116.8	71.1	50-150
HEXACOSANE	24.2	29.21	82.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/01/12 10:45
Sample ID:   SL-695-SA5C-SB-0.0-0.5            Date Analyzed: 05/02/12 07:43
Lab Samp ID: D256-02                            Dilution Factor: 1
Lab File ID: LE01051A                          Matrix          : SOIL
Ext Btch ID: DSE001S                            % Moisture     : 7.5
Calib. Ref.: LE01046A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	7.1J	11	5.4
TOTAL EFH(C8-C40)	7.1	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.1	108.1	72.2	50-150
HEXACOSANE	22.8	27.03	84.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                       Date Received: 04/26/12
Batch No.    : 12D256                             Date Extracted: 05/01/12 10:45
Sample ID    : SL-995-SA5C-SB-0.0-0.5           Date Analyzed: 05/02/12 08:34
Lab Samp ID  : D256-03                           Dilution Factor: 1
Lab File ID  : LE01054A                          Matrix          : SOIL
Ext Btch ID  : DSE001S                            % Moisture     : 7.2
Calib. Ref.  : LE01046A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.3	107.8	72.7	50-150
HEXACOSANE	22.2	26.94	82.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/01/12 10:45
Sample ID    : SL-697-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 10:15
Lab Samp ID  : D256-04                           Dilution Factor: 1
Lab File ID  : LE01060A                          Matrix          : SOIL
Ext Btch ID  : DSE001S                           % Moisture     : 7.1
Calib. Ref.  : LE01058A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	6.0J	11	5.4
TOTAL EFH(C8-C40)	6.0	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.2	107.6	71.8	50-150
HEXACOSANE	22.0	26.91	81.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/01/12 10:45
Sample ID    : SL-701-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 10:32
Lab Samp ID  : D256-05                           Dilution Factor: 1
Lab File ID  : LE01061A                         Matrix          : SOIL
Ext Btch ID  : DSE001S                          % Moisture     : 6.2
Calib. Ref.  : LE01058A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	ND	5.3	2.7
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.4	106.6	72.6	50-150
HEXACOSANE	22.3	26.65	83.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                       Date Received: 04/26/12
Batch No.    : 12D256                             Date Extracted: 05/01/12 10:45
Sample ID    : SL-703-SA5C-SB-0.0-0.5           Date Analyzed: 05/02/12 12:30
Lab Samp ID  : D256-07                             Dilution Factor: 1
Lab File ID  : LE01068A                           Matrix          : SOIL
Ext Btch ID  : DSE001S                             % Moisture     : 8.4
Calib. Ref.  : LE01058A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	21	5.5	2.7
EFH(C30-C40)	53	11	5.5
TOTAL EFH(C8-C40)	74	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.7	109.2	70.3	50-150
HEXACOSANE	23.8	27.29	87.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/01/12 10:45
Sample ID    : SL-700-SA5C-SB-0.0-0.5          Date Analyzed: 05/02/12 12:47
Lab Samp ID  : D256-09                           Dilution Factor: 1
Lab File ID  : LE01069A                         Matrix          : SOIL
Ext Btch ID  : DSE001S                          % Moisture     : 8.8
Calib. Ref. : LE01058A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	38	5.5	2.7
EFH(C30-C40)	86	11	5.5
TOTAL EFH(C8-C40)	120	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	80.0	109.6	73.0	50-150
HEXACOSANE	25.2	27.41	92.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/01/12 10:45
Sample ID:   SL-711-SA5C-SB-0.0-0.5           Date Analyzed: 05/02/12 12:14
Lab Samp ID: D256-11                           Dilution Factor: 1
Lab File ID: LE01067A                          Matrix          : SOIL
Ext Btch ID: DSE001S                            % Moisture     : 5.8
Calib. Ref.: LE01058A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	6.1	5.3	2.7
EFH(C30-C40)	9.4J	11	5.3
TOTAL EFH(C8-C40)	16	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.9	106.2	70.6	50-150
HEXACOSANE	22.1	26.54	83.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.    : 12D256                           Date Extracted: 05/01/12 10:45
Sample ID    : MBLK1S                            Date Analyzed: 05/02/12 03:29
Lab Samp ID  : DSE001SB                         Dilution Factor: 1
Lab File ID  : LE01036A                        Matrix          : SOIL
Ext Btch ID  : DSE001S                          % Moisture     : NA
Calib. Ref. : LE01034A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.6	100.0	71.6	50-150
HEXACOSANE	19.8	25.00	79.0	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE001SB DSE001SL DSE001SC  
LAB FILE ID: LE01036A LE01037A LE01038A  
DATE EXTRACTED: 05/01/1210:45 05/01/1210:45 05/01/1210:45 DATE COLLECTED: NA  
DATE ANALYZED: 05/02/1203:29 05/02/1203:45 05/02/1204:03 DATE RECEIVED: 05/01/12  
PREP. BATCH: DSE001S DSE001S DSE001S  
CALIB. REF: LE01034A LE01034A LE01034A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	498	100	500	474	95	5	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	81.6	82	100	76.5	76	50-150
Hexacosane	25.0	21.4	86	25.0	20.1	80	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
LAB SAMP ID: D256-02 D256-02M D256-02S  
LAB FILE ID: LE01051A LE01052A LE01053A  
DATE EXTRACTED: 05/01/1210:45 05/01/1210:45 05/01/1210:45 DATE COLLECTED: 04/26/12  
DATE ANALYZED: 05/02/1207:43 05/02/1208:00 05/02/1208:17 DATE RECEIVED: 04/26/12  
PREP. BATCH: DSE001S DSE001S DSE001S  
CALIB. REF: LE01046A LE01046A LE01046A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	7.08	541	520	95	541	497	91	4	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	108	82.2	76	108	79.3	73	50-150
Hexacosane	27.0	21.8	81	27.0	21.8	81	50-150

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 04/27/12 18:30
Sample ID    : EB-042612                        Date Analyzed: 05/01/12 03:03
Lab Samp ID  : D256-08                          Dilution Factor: 1.05
Lab File ID  : LD30045A                         Matrix          : WATER
Ext Btch ID  : DSD049W                          % Moisture     : NA
Calib. Ref.  : LD30040A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.052
EFH(C12-C14)	ND	0.10	0.052
EFH(C15-C20)	ND	0.10	0.052
EFH(C21-C30)	ND	0.10	0.052
EFH(C30-C40)	ND	0.10	0.052
TOTAL EFH(C8-C40)	ND	0.10	0.052

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.884	1.050	84.2	40-130
HEXACOSANE	0.243	0.2625	92.5	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/27/12
Batch No.    : 12D256                           Date Extracted: 04/27/12 18:30
Sample ID    : MBLK1W                           Date Analyzed: 05/01/12 02:12
Lab Samp ID  : DSD049WB                         Dilution Factor: 1
Lab File ID  : LD30042A                        Matrix          : WATER
Ext Btch ID  : DSD049W                         % Moisture      : NA
Calib. Ref.  : LD30040A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.762	1.000	76.2	40-130
HEXACOSANE	0.221	0.2500	88.5	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSD049WB DSD049WL DSD049WC  
LAB FILE ID: LD30042A LD30043A LD30044A  
DATE EXTRACTED: 04/27/1218:30 04/27/1218:30 04/27/1218:30 DATE COLLECTED: NA  
DATE ANALYZED: 05/01/1202:12 05/01/1202:29 05/01/1202:46 DATE RECEIVED: 04/27/12  
PREP. BATCH: DSD049W DSD049W DSD049W  
CALIB. REF: LD30040A LD30040A LD30040A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	5.51	110	5.00	5.22	104	5	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.830	83	1.00	0.837	84	40-130
Hexacosane	0.250	0.216	87	0.250	0.223	89	40-150

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 04/30/12 12:30
Sample ID    : EB-042612                        Date Analyzed: 05/09/12 08:26
Lab Samp ID  : D256-08                          Dilution Factor: 1.11
Lab File ID  : SE08027A                        Matrix          : WATER
Ext Btch ID  : CPD071W                         % Moisture     : NA
Calib. Ref.  : SE08021A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.1	0.56   0.56
AROCLOR 1221	(ND)   ND	1.1	0.56   0.56
AROCLOR 1232	(ND)   ND	1.1	0.56   0.56
AROCLOR 1242	(ND)   ND	1.1	0.56   0.56
AROCLOR 1248	(ND)   ND	1.1	0.56   0.56
AROCLOR 1254	(ND)   ND	1.1	0.56   0.56
AROCLOR 1260	(ND)   ND	1.1	0.56   0.56
AROCLOR 1262	(ND)   ND	1.1	0.56   0.56
AROCLOR 1268	(ND)   ND	1.1	0.56   0.56
AROCLOR 5432	(ND)   ND	2.2	1.1   1.1
AROCLOR 5442	(ND)   ND	2.2	1.1   1.1
AROCLOR 5460	(ND)   ND	2.2	1.1   1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	0.4197   (0.4279)	0.4440	94.5   (96.4)	45-120
TETRACHLORO-M-XYLENE	0.2516   (0.2630)	0.4440	56.7   (59.2)	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.   : 12D256                           Date Extracted: 04/30/12 12:30
Sample ID   : MBLK1W                           Date Analyzed: 05/09/12 06:43
Lab Samp ID: CPD071WB                         Dilution Factor: 1
Lab File ID: SE08024A                         Matrix          : WATER
Ext Btch ID: CPD071W                          % Moisture     : NA
Calib. Ref.: SE08021A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	0.3817   (0.3911)	0.4000	95.4   (97.8)	45-120
TETRACHLORO-M-XYLENE	(0.2967)   0.2925	0.4000	(74.2)   73.1	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPD071WB 60D071WL 60D071WC  
LAB FILE ID: SE08024A SE08025A SE08026A  
DATE EXTRACTED: 04/30/1212:30 04/30/1212:30 04/30/1212:30 DATE COLLECTED: NA  
DATE ANALYZED: 05/09/1206:43 05/09/1207:17 05/09/1207:52 DATE RECEIVED: 04/30/12  
PREP. BATCH: CPD071W CPD071W CPD071W  
CALIB. REF: SE08021A SE08021A SE08021A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	(4.89)   4.67	(98)   93	5.00	(4.92)   4.70	(98)   94	(1)   1	50-130	30
Aroclor 1260	(ND)   ND	5.00	4.87   (4.95)	97   (99)	5.00	4.87   (4.98)	97   (100)	0   (1)	60-150	30
Aroclor 5460	(ND)   ND	2.50	(2.58)   2.27	(103)   91	5.00	(2.64)   2.32	(106)   93	(2)   2	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	0.3798   (0.3953)	95.0   (98.8)	0.4000	0.3781   (0.3904)	94.5   (97.6)	45-120
Tetrachloro-m-xylene	0.4000	0.2832   (0.3180)	70.8   (79.5)	0.4000	0.2775   (0.2986)	69.4   (74.6)	30-140

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/02/12 16:51
Sample ID    : SL-571-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 09:02
Lab Samp ID  : D256-01                          Dilution Factor: 1
Lab File ID  : SE08028A                        Matrix          : SOIL
Ext Btch ID  : CPE002S                         % Moisture     : 14.4
Calib. Ref.  : SE08021A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	59   (61)	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.01   (13.77)	15.57	83.5   (88.4)	45-120
TETRACHLORO-M-XYLENE	12.52   (12.59)	15.57	80.4   (80.9)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/02/12 16:51
Sample ID    : SL-695-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 09:36
Lab Samp ID  : D256-02                           Dilution Factor: 1
Lab File ID  : SE08029A                          Matrix          : SOIL
Ext Btch ID  : CPE002S                           % Moisture     : 7.5
Calib. Ref.  : SE08021A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.25   (13.69)	14.41	91.9   (95.0)	45-120
TETRACHLORO-M-XYLENE	(12.14)   11.77	14.41	(84.2)   81.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                       Date Received: 04/26/12
Batch No.    : 12D256                             Date Extracted: 05/02/12 16:51
Sample ID    : SL-995-SA5C-SB-0.0-0.5           Date Analyzed: 05/09/12 11:19
Lab Samp ID  : D256-03                           Dilution Factor: 1
Lab File ID  : SE08032A                          Matrix          : SOIL
Ext Btch ID  : CPE002S                            % Moisture     : 7.2
Calib. Ref.  : SE08021A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	12.92   (13.27)	14.36	89.9   (92.4)	45-120
TETRACHLORO-M-XYLENE	(11.33)   10.81	14.36	(78.9)   75.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 04/26/12
Project     : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.   : 12D256                           Date Extracted: 05/02/12 16:51
Sample ID   : SL-703-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 11:53
Lab Samp ID : D256-07                           Dilution Factor: 1
Lab File ID : SE08033A                          Matrix          : SOIL
Ext Btch ID : CPE002S                           % Moisture     : 8.4
Calib. Ref. : SE08021A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.21   (12.32)	14.55	77.0   (84.7)	45-120
TETRACHLORO-M-XYLENE	(12.89)   12.61	14.55	(88.6)   86.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/26/12
Project      : SSFL PHASE 3                     Date Received: 04/26/12
Batch No.    : 12D256                           Date Extracted: 05/02/12 16:51
Sample ID    : SL-711-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 12:27
Lab Samp ID  : D256-11                          Dilution Factor: 1
Lab File ID  : SE08034A                        Matrix          : SOIL
Ext Btch ID  : CPE002S                          % Moisture     : 5.8
Calib. Ref.  : SE08021A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.63   (12.95)	14.15	89.3   (91.5)	45-120
TETRACHLORO-M-XYLENE	(11.33)   11.03	14.15	(80.0)   77.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12D256                           Date Extracted: 05/02/12 16:51
Sample ID    : MBLK1S                           Date Analyzed: 05/08/12 19:53
Lab Samp ID  : 60E002SB                         Dilution Factor: 1
Lab File ID  : SE08005A                         Matrix          : SOIL
Ext Btch ID  : CPE002S                          % Moisture     : NA
Calib. Ref.  : SE08002A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIIPHENYL	13.84   (13.93)	13.33	104   (105)	45-120
TETRACHLORO-M-XYLENE	(12.01)   11.31	13.33	(90.1)   84.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E002SB 60E002SL 60E002SC  
LAB FILE ID: SE08005A SE08006A SE08007A  
DATE EXTRACTED: 05/02/1216:51 05/02/1216:51 05/02/1216:51 DATE COLLECTED: NA  
DATE ANALYZED: 05/08/1219:53 05/08/1220:27 05/08/1221:01 DATE RECEIVED: 05/02/12  
PREP. BATCH: CPE002S CPE002S CPE002S  
CALIB. REF: SE08002A SE08002A SE08002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(161)   156	(97)   94	167	(159)   153	(95)   92	(1)   2	50-130	50
Aroclor 1260	(ND)   ND	167	165   (166)	99   (100)	167	162   (164)	97   (98)	2   (1)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(92.1)   81.3	(111)   98	83.3	(86.5)   76.8	(104)   92	(6)   6	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	13.53   (13.62)	101   (102)	13.33	13.16   (13.27)	98.7   (99.5)	45-120
Tetrachloro-m-xylene	13.33	(11.58)   10.91	(86.9)   81.8	13.33	(11.43)   10.75	(85.7)   80.6	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
LAB SAMP ID: D256-02 D256-02M D256-02S  
LAB FILE ID: SE08029A SE08030A SE08031A  
DATE EXTRACTED: 05/02/1216:51 05/02/1216:51 05/02/1216:51 DATE COLLECTED: 04/26/12  
DATE ANALYZED: 05/09/1209:36 05/09/1210:10 05/09/1210:44 DATE RECEIVED: 04/26/12  
PREP. BATCH: CPE002S CPE002S CPE002S  
CALIB. REF: SE08021A SE08021A SE08021A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	180	158   (161)	88   (89)	180	(155)   150	(86)   83	(2)   7	20-160	50
Aroclor 1260	(ND)   ND	180	166   (171)	92   (95)	180	158   (162)	88   (90)	5   (5)	20-160	50
Aroclor 5460	(ND)   ND	90.1	(93.1)   81.9	(103)   91	90.1	(86.7)   75.9	(96)   84	(7)   8	20-160	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.41	12.83   (13.65)	89.0   (94.7)	14.41	12.60   (13.11)	87.4   (91.0)	45-120
Tetrachloro-m-xylene	14.41	(11.82)   11.49	(82.0)   79.7	14.41	(11.20)   10.92	(77.7)   75.8	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/26/12
Project    : SSFL PHASE 3                       Date Received: 04/26/12
SDG NO.    : 12D256                             Date Extracted: 05/01/12 10:30
Sample ID: SL-571-SA5C-SB-0.0-0.5             Date Analyzed: 05/04/12 17:15
Lab Samp ID: D256-01                           Dilution Factor: 0.952
Lab File ID: 98E04028                          Matrix          : SOIL
Ext Btch ID: IMD048S                            % Moisture     : 14.4
Calib. Ref.: 98E04018                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	24300	111	13.3
Antimony	0.224J	0.556	0.111
Arsenic	5.86	0.556	0.222
Barium	153	0.556	0.222
Beryllium	0.788	0.556	0.0556
Boron	ND	5.56	2.78
Cadmium	0.165J	0.556	0.0556
Calcium	2890	22.2	11.1
Chromium	23.3	0.556	0.222
Cobalt	4.32	0.556	0.0556
Copper	6.56	0.556	0.222
Iron	25000	111	11.1
Lead	11.3	0.556	0.111
Magnesium	4010	11.1	5.56
Manganese	159	0.556	0.278
Molybdenum	0.820	0.556	0.0556
Nickel	11.0	0.556	0.222
Potassium	1700	111	33.4
Selenium	ND	0.556	0.222
Silver	0.0629J	0.556	0.0556
Sodium	294	111	55.6
Strontium	31.0	0.556	0.278
Thallium	0.291J	0.445	0.0556
Tin	ND	11.1	5.56
Titanium	968	1.11	0.556
Vanadium	46.7	0.556	0.0556
Zinc	48.6	5.56	1.67
Lithium	17.7	2.22	1.11
Phosphorus	108	13.3	6.67
Zirconium	ND	5.56	2.78

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/26/12
Project     : SSFL PHASE 3                     Date Received: 04/26/12
SDG NO.    : 12D256                           Date Extracted: 05/01/12 10:30
Sample ID:  SL-695-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 17:06
Lab Samp ID: D256-02                          Dilution Factor: 0.995
Lab File ID: 98E04026                         Matrix          : SOIL
Ext Btch ID: IMD048S                           % Moisture     : 7.5
Calib. Ref.: 98E04018                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15000	108	12.9
Antimony	0.200J	0.538	0.108
Arsenic	4.01	0.538	0.215
Barium	105	0.538	0.215
Beryllium	0.621	0.538	0.0538
Boron	ND	5.38	2.69
Cadmium	0.168J	0.538	0.0538
Calcium	2280	21.5	10.8
Chromium	19.0	0.538	0.215
Cobalt	5.22	0.538	0.0538
Copper	7.51	0.538	0.215
Iron	19200	108	10.8
Lead	5.72	0.538	0.108
Magnesium	3790	10.8	5.38
Manganese	233	0.538	0.269
Molybdenum	0.461J	0.538	0.0538
Nickel	9.97	0.538	0.215
Potassium	1860	108	32.3
Selenium	ND	0.538	0.215
Silver	ND	0.538	0.0538
Sodium	181	108	53.8
Strontium	21.1	0.538	0.269
Thallium	0.263J	0.430	0.0538
Tin	ND	10.8	5.38
Titanium	939	1.08	0.538
Vanadium	36.0	0.538	0.0538
Zinc	42.8	5.38	1.61
Lithium	16.6	2.15	1.08
Phosphorus	155	12.9	6.45
Zirconium	ND	5.38	2.69

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/26/12
Project     : SSFL PHASE 3                     Date Received: 04/26/12
SDG NO.    : 12D256                           Date Extracted: 05/01/12 10:30
Sample ID:  SL-995-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 17:34
Lab Samp ID: D256-03                          Dilution Factor: 0.976
Lab File ID: 98E04032                         Matrix          : SOIL
Ext Btch ID: IMD048S                           % Moisture     : 7.2
Calib. Ref.: 98E04030                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13600	105	12.6
Antimony	0.186J	0.526	0.105
Arsenic	4.07	0.526	0.210
Barium	107	0.526	0.210
Beryllium	0.617	0.526	0.0526
Boron	ND	5.26	2.63
Cadmium	0.149J	0.526	0.0526
Calcium	2100	21.0	10.5
Chromium	18.1	0.526	0.210
Cobalt	5.17	0.526	0.0526
Copper	6.58	0.526	0.210
Iron	18300	105	10.5
Lead	6.24	0.526	0.105
Magnesium	3300	10.5	5.26
Manganese	219	0.526	0.263
Molybdenum	0.467J	0.526	0.0526
Nickel	8.58	0.526	0.210
Potassium	1610	105	31.6
Selenium	ND	0.526	0.210
Silver	ND	0.526	0.0526
Sodium	175	105	52.6
Strontium	20.5	0.526	0.263
Thallium	0.248J	0.421	0.0526
Tin	ND	10.5	5.26
Titanium	836	1.05	0.526
Vanadium	36.2	0.526	0.0526
Zinc	37.9	5.26	1.58
Lithium	12.7	2.10	1.05
Phosphorus	112	12.6	6.31
Zirconium	ND	5.26	2.63

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/26/12
Project    : SSFL PHASE 3                     Date Received: 04/26/12
SDG NO.    : 12D256                           Date Extracted: 05/01/12 10:30
Sample ID: SL-702-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 17:38
Lab Samp ID: D256-06                         Dilution Factor: 0.971
Lab File ID: 98E04033                       Matrix          : SOIL
Ext Btch ID: IMD048S                        % Moisture     : 6.3
Calib. Ref.: 98E04030                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12600	104	12.4
Antimony	0.880	0.518	0.104
Arsenic	3.84	0.518	0.207
Barium	109	0.518	0.207
Beryllium	0.605	0.518	0.0518
Boron	ND	5.18	2.59
Cadmium	0.276J	0.518	0.0518
Calcium	2360	20.7	10.4
Chromium	17.2	0.518	0.207
Cobalt	5.88	0.518	0.0518
Copper	10.1	0.518	0.207
Iron	18100	104	10.4
Lead	6.45	0.518	0.104
Magnesium	3660	10.4	5.18
Manganese	275	0.518	0.259
Molybdenum	0.523	0.518	0.0518
Nickel	10.2	0.518	0.207
Potassium	2470	104	31.1
Selenium	ND	0.518	0.207
Silver	ND	0.518	0.0518
Sodium	91.9J	104	51.8
Strontium	19.8	0.518	0.259
Thallium	0.267J	0.415	0.0518
Tin	ND	10.4	5.18
Titanium	884	1.04	0.518
Vanadium	34.0	0.518	0.0518
Zinc	89.5	5.18	1.55
Lithium	14.8	2.07	1.04
Phosphorus	212	12.4	6.22
Zirconium	ND	5.18	2.59

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/26/12
Project    : SSFL PHASE 3                     Date Received: 04/26/12
SDG NO.    : 12D256                           Date Extracted: 05/01/12 10:30
Sample ID  : SL-703-SA5C-SB-0.0-0.5          Date Analyzed: 05/04/12 17:43
Lab Samp ID: D256-07                           Dilution Factor: 0.980
Lab File ID: 98E04034                          Matrix          : SOIL
Ext Btch ID: IMD048S                            % Moisture     : 8.4
Calib. Ref.: 98E04030                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17600	107	12.8
Antimony	0.322J	0.535	0.107
Arsenic	4.43	0.535	0.214
Barium	108	0.535	0.214
Beryllium	0.627	0.535	0.0535
Boron	ND	5.35	2.67
Cadmium	0.166J	0.535	0.0535
Calcium	2500	21.4	10.7
Chromium	18.4	0.535	0.214
Cobalt	4.87	0.535	0.0535
Copper	7.77	0.535	0.214
Iron	21300	107	10.7
Lead	7.22	0.535	0.107
Magnesium	3790	10.7	5.35
Manganese	192	0.535	0.267
Molybdenum	0.478J	0.535	0.0535
Nickel	9.24	0.535	0.214
Potassium	1860	107	32.1
Selenium	ND	0.535	0.214
Silver	ND	0.535	0.0535
Sodium	234	107	53.5
Strontium	21.4	0.535	0.267
Thallium	0.239J	0.428	0.0535
Tin	ND	10.7	5.35
Titanium	880	1.07	0.535
Vanadium	38.1	0.535	0.0535
Zinc	75.9	5.35	1.60
Lithium	15.6	2.14	1.07
Phosphorus	215	12.8	6.42
Zirconium	ND	5.35	2.67

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/26/12
Project     : SSFL PHASE 3                     Date Received: 04/26/12
SDG NO.    : 12D256                           Date Extracted: 05/01/12 10:30
Sample ID:  SL-711-SA5C-SB-0.0-0.5           Date Analyzed: 05/04/12 17:47
Lab Samp ID: D256-11                          Dilution Factor: 0.985
Lab File ID: 98E04035                         Matrix          : SOIL
Ext Btch ID: IMD048S                          % Moisture     : 5.8
Calib. Ref.: 98E04030                         Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8900	105	12.5
Antimony	0.214J	0.523	0.105
Arsenic	3.59	0.523	0.209
Barium	72.0	0.523	0.209
Beryllium	0.376J	0.523	0.0523
Boron	ND	5.23	2.61
Cadmium	0.221J	0.523	0.0523
Calcium	5210	20.9	10.5
Chromium	16.0	0.523	0.209
Cobalt	4.66	0.523	0.0523
Copper	7.77	0.523	0.209
Iron	14000	105	10.5
Lead	4.88	0.523	0.105
Magnesium	3100	10.5	5.23
Manganese	202	0.523	0.261
Molybdenum	0.683	0.523	0.0523
Nickel	10.1	0.523	0.209
Potassium	1780	105	31.4
Selenium	0.272J	0.523	0.209
Silver	ND	0.523	0.0523
Sodium	82.9J	105	52.3
Strontium	22.9	0.523	0.261
Thallium	0.164J	0.418	0.0523
Tin	ND	10.5	5.23
Titanium	642	1.05	0.523
Vanadium	26.5	0.523	0.0523
Zinc	46.2	5.23	1.57
Lithium	13.2	2.09	1.05
Phosphorus	353	12.5	6.27
Zirconium	ND	5.23	2.61

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 05/01/12
SDG NO.    : 12D256                           Date Extracted: 05/01/12 10:30
Sample ID  : MBLK1S                            Date Analyzed: 05/04/12 16:39
Lab Samp ID: IMD048SB                         Dilution Factor: 1
Lab File ID: 98E04020                        Matrix          : SOIL
Ext Btch ID: IMD048S                          % Moisture     : NA
Calib. Ref.: 98E04018                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D256  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMD048SB IMD048SL IMD048SC  
LAB FILE ID: 98E04020 98E04021 98E04022  
DATIME EXTRACTD: 05/01/1210:30 05/01/1210:30 05/01/1210:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/04/1216:39 05/04/1216:44 05/04/1216:48 DATE RECEIVED: 05/01/12  
PREP. BATCH: IMD048S IMD048S IMD048S  
CALIB. REF: 98E04018 98E04018 98E04018

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2500	100	2500	2490	100	1	80-120	20
Antimony	ND	25.0	26.8	107	25.0	26.4	106	2	80-120	20
Arsenic	ND	25.0	25.6	102	25.0	25.1	100	2	80-120	20
Barium	ND	25.0	26.2	105	25.0	25.7	103	2	80-120	20
Beryllium	ND	25.0	26.7	107	25.0	25.9	104	3	80-120	20
Boron	ND	25.0	26.8	107	25.0	26.3	105	2	80-120	20
Cadmium	ND	25.0	25.9	104	25.0	25.5	102	2	80-120	20
Calcium	ND	2500	2720	109	2500	2680	107	1	80-120	20
Chromium	ND	25.0	26.1	104	25.0	25.3	101	3	80-120	20
Cobalt	ND	25.0	25.7	103	25.0	25.4	102	1	80-120	20
Copper	ND	25.0	26.1	104	25.0	25.3	101	3	80-120	20
Iron	ND	2500	2700	108	2500	2640	106	2	80-120	20
Lead	ND	25.0	26.6	106	25.0	26.3	105	1	80-120	20
Magnesium	ND	2500	2510	100	2500	2500	100	0	80-120	20
Manganese	ND	25.0	25.6	102	25.0	25.3	101	1	80-120	20
Molybdenum	ND	25.0	25.8	103	25.0	25.4	102	2	80-120	20
Nickel	ND	25.0	25.9	104	25.0	25.2	101	3	80-120	20
Potassium	ND	2500	2700	108	2500	2610	104	3	80-120	20
Selenium	ND	25.0	25.4	102	25.0	24.7	99	3	80-120	20
Silver	ND	25.0	25.7	103	25.0	25.5	102	1	80-120	20
Sodium	ND	2500	2620	105	2500	2570	103	2	80-120	20
Strontium	ND	25.0	26.2	105	25.0	25.8	103	2	80-120	20
Thallium	ND	25.0	26.5	106	25.0	26.2	105	1	80-120	20
Tin	ND	25.0	28.6	115	25.0	28.3	113	1	80-120	20
Titanium	ND	25.0	25.6	102	25.0	25.1	100	2	80-120	20
Vanadium	ND	25.0	26.1	104	25.0	25.3	101	3	80-120	20
Zinc	ND	50.0	51.0	102	50.0	50.1	100	2	80-120	20
Lithium	ND	25.0	26.9	107	25.0	25.9	104	4	80-120	20
Phosphorus	ND	250	240	96	250	237	95	2	80-120	20
Zirconium	ND	25.0	25.9	104	25.0	25.4	101	2	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D256  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILT N FACTR: 0.995 0.976 0.957  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
CONTROL NO.: D256-02 D256-02M D256-02S  
LAB FILE ID: 98E04026 98E04023 98E04024  
DATIME EXTRACTD: 05/01/1210:30 05/01/1210:30 05/01/1210:30 DATE COLLECTED: 04/26/12  
DATIME ANALYZD: 05/04/1217:06 05/04/1216:53 05/04/1216:57 DATE RECEIVED: 04/26/12  
PREP. BATCH: IMD048S IMD048S IMD048S  
CALIB. REF: 98E04018 98E04018 98E04018

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	15000	2640	18000	111	2590	17500	95	3	75-125	20
Antimony	0.200J	26.4	18.4	69*	25.9	16.2	62*	12	75-125	20
Arsenic	4.01	26.4	29.2	95	25.9	27.8	92	5	75-125	20
Barium	105	26.4	136	117	25.9	132	106	3	75-125	20
Beryllium	0.621	26.4	28.5	106	25.9	27.4	104	4	75-125	20
Boron	ND	26.4	28.7	109	25.9	27.7	107	3	75-125	20
Cadmium	0.168J	26.4	27.2	102	25.9	26.4	101	3	75-125	20
Calcium	2280	2640	4860	98	2590	4780	97	2	75-125	20
Chromium	19.0	26.4	44.0	95	25.9	42.8	92	3	75-125	20
Cobalt	5.22	26.4	30.4	95	25.9	32.2	104	6	75-125	20
Copper	7.51	26.4	31.9	92	25.9	31.0	91	3	75-125	20
Iron	19200	2640	22000	104	2590	20900	63*	5	75-125	20
Lead	5.72	26.4	33.3	105	25.9	32.9	105	1	75-125	20
Magnesium	3790	2640	6200	91	2590	6100	89	2	75-125	20
Manganese	233	26.4	259	100	25.9	299	255*	14	75-125	20
Molybdenum	0.461J	26.4	26.3	98	25.9	25.7	97	2	75-125	20
Nickel	9.97	26.4	34.3	92	25.9	33.8	92	1	75-125	20
Potassium	1860	2640	4480	99	2590	4390	98	2	75-125	20
Selenium	ND	26.4	26.0	99	25.9	25.5	98	2	75-125	20
Silver	ND	26.4	26.5	101	25.9	26.1	101	2	75-125	20
Sodium	181	2640	2690	95	2590	2650	95	2	75-125	20
Strontium	21.1	26.4	47.9	102	25.9	46.6	98	3	75-125	20
Thallium	0.263J	26.4	27.6	103	25.9	26.9	103	2	75-125	20
Tin	ND	26.4	31.1	118	25.9	30.0	116	4	75-125	20
Titanium	939	26.4	953	52*	25.9	931	-31*	2	75-125	20
Vanadium	36.0	26.4	61.8	98	25.9	60.0	93	3	75-125	20
Zinc	42.8	52.8	95.6	100	51.7	91.6	94	4	75-125	20
Lithium	16.6	26.4	46.2	112	25.9	44.6	108	4	75-125	20
Phosphorus	155	264	394	91	259	392	92	1	75-125	20
Zirconium	ND	26.4	21.9	83	25.9	20.9	81	5	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D256  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
CONTROL NO.: D256-02 D256-02A  
LAB FILE ID: 98E04026 98E04025  
DATIME EXTRACTD: 05/01/1210:30 05/01/1210:30 DATE COLLECTED: 04/26/12  
DATIME ANALYZD: 05/04/1217:06 05/04/1217:02 DATE RECEIVED: 04/26/12  
PREP. BATCH: IMD048S IMD048S  
CALIB. REF: 98E04018 98E04018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	15000	2690	17700	100	75-125
Antimony	0.200J	26.9	28.0	103	75-125
Arsenic	4.01	26.9	29.7	96	75-125
Barium	105	26.9	133	106	75-125
Beryllium	0.621	26.9	27.3	99	75-125
Boron	ND	26.9	28.9	108	75-125
Cadmium	0.168J	26.9	27.0	100	75-125
Calcium	2280	2690	4890	97	75-125
Chromium	19.0	26.9	43.4	91	75-125
Cobalt	5.22	26.9	29.8	92	75-125
Copper	7.51	26.9	31.4	89	75-125
Iron	19200	2690	21700	90	75-125
Lead	5.72	26.9	33.0	101	75-125
Magnesium	3790	2690	6300	93	75-125
Manganese	233	26.9	253	75	75-125
Molybdenum	0.461J	26.9	27.3	100	75-125
Nickel	9.97	26.9	33.9	89	75-125
Potassium	1860	2690	4570	101	75-125
Selenium	ND	26.9	25.9	96	75-125
Silver	ND	26.9	26.2	97	75-125
Sodium	181	2690	2710	94	75-125
Strontium	21.1	26.9	47.6	99	75-125
Thallium	0.263J	26.9	27.6	102	75-125
Tin	ND	26.9	30.5	114	75-125
Titanium	939	26.9	961	80	75-125
Vanadium	36.0	26.9	60.7	92	75-125
Zinc	42.8	53.8	92.8	93	75-125
Lithium	16.6	26.9	45.1	106	75-125
Phosphorus	155	269	414	96	75-125
Zirconium	ND	26.9	28.3	105	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D256  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.5  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-695-SA5C-SB SL-695-SA5C-SB  
 EMAX SAMP ID: D256-02 D256-02J  
 LAB FILE ID: 98E04026 98E04027  
 DATE EXTRACTED: 05/01/1210:30 05/01/1210:30 DATE COLLECTED: 04/26/12  
 DATE ANALYZED: 05/04/1217:06 05/04/1217:11 DATE RECEIVED: 04/26/12  
 PREP. BATCH: IMD048S IMD048S  
 CALIB. REF: 98E04018 98E04018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	15000	16100	7	10
Antimony	0.200J	ND	NA	10
Arsenic	4.01	4.15	4	10
Barium	105	105	0	10
Beryllium	0.621	0.617J	NA	10
Boron	ND	ND	0	10
Cadmium	0.168J	ND	NA	10
Calcium	2280	2470	8	10
Chromium	19.0	20.4	7	10
Cobalt	5.22	5.67	9	10
Copper	7.51	8.46	13*	10
Iron	19200	21000	9	10
Lead	5.72	5.89	3	10
Magnesium	3790	4040	7	10
Manganese	233	253	9	10
Molybdenum	0.461J	0.472J	NA	10
Nickel	9.97	10.8	8	10
Potassium	1860	1990	7	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	181	ND	NA	10
Strontium	21.1	21.1	0	10
Thallium	0.263J	0.286J	NA	10
Tin	ND	ND	0	10
Titanium	939	972	3	10
Vanadium	36.0	38.0	6	10
Zinc	42.8	44.2	3	10
Lithium	16.6	16.7	1	10
Phosphorus	155	161	4	10
Zirconium	ND	ND	0	10

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/26/12
Project    : SSFL PHASE 3                     Date Received: 04/26/12
SDG NO.    : 12D256                           Date Extracted: 04/30/12 14:50
Sample ID  : EB-042612                        Date Analyzed: 05/07/12 13:56
Lab Samp ID: D256-08                          Dilution Factor: 1
Lab File ID: 98E05027                        Matrix          : WATER
Ext Btch ID: IMD044W                          % Moisture     : NA
Calib. Ref.: 98E05017                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	0.0440J	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	0.0367J	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.00165	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	0.0732J	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 04/30/12
SDG NO.     : 12D256                           Date Extracted: 04/30/12 14:50
Sample ID   : MBLK1W                            Date Analyzed: 05/07/12 13:42
Lab Samp ID : IMD044WB                         Dilution Factor: 1
Lab File ID : 98E05024                        Matrix          : WATER
Ext Btch ID : IMD044W                          % Moisture     : NA
Calib. Ref. : 98E05017                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D256  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMD044WB IMD044WL IMD044WC  
LAB FILE ID: 98E05024 98E05025 98E05026  
DATIME EXTRACTD: 04/30/1214:50 04/30/1214:50 04/30/1214:50 DATE COLLECTED: NA  
DATIME ANALYZD: 05/07/1213:42 05/07/1213:46 05/07/1213:51 DATE RECEIVED: 04/30/12  
PREP. BATCH: IMD044W IMD044W IMD044W  
CALIB. REF: 98E05017 98E05017 98E05017

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.60	104	2.50	2.70	108	4	80-120	20
Antimony	ND	0.0250	0.0265	106	0.0250	0.0272	109	3	80-120	20
Arsenic	ND	0.0250	0.0256	102	0.0250	0.0268	107	5	80-120	20
Barium	ND	0.0250	0.0265	106	0.0250	0.0271	109	2	80-120	20
Beryllium	ND	0.0250	0.0264	105	0.0250	0.0278	111	5	80-120	20
Boron	ND	0.0250	0.0275	110	0.0250	0.0289	116	5	80-120	20
Cadmium	ND	0.0250	0.0259	104	0.0250	0.0266	106	3	80-120	20
Calcium	ND	2.50	2.71	108	2.50	2.84	114	5	80-120	20
Chromium	ND	0.0250	0.0255	102	0.0250	0.0265	106	4	80-120	20
Cobalt	ND	0.0250	0.0257	103	0.0250	0.0266	107	3	80-120	20
Copper	ND	0.0250	0.0256	102	0.0250	0.0266	106	4	80-120	20
Iron	ND	2.50	2.66	106	2.50	2.78	111	4	80-120	20
Lead	ND	0.0250	0.0263	105	0.0250	0.0273	109	4	80-120	20
Magnesium	ND	2.50	2.61	104	2.50	2.73	109	4	80-120	20
Manganese	ND	0.0250	0.0257	103	0.0250	0.0268	107	4	80-120	20
Molybdenum	ND	0.0250	0.0253	101	0.0250	0.0262	105	4	80-120	20
Nickel	ND	0.0250	0.0259	103	0.0250	0.0263	105	2	80-120	20
Potassium	ND	2.50	2.71	109	2.50	2.84	114	5	80-120	20
Selenium	ND	0.0250	0.0257	103	0.0250	0.0267	107	4	80-120	20
Silver	ND	0.0250	0.0255	102	0.0250	0.0263	105	3	80-120	20
Sodium	ND	2.50	2.63	105	2.50	2.76	110	4	80-120	20
Strontium	ND	0.0250	0.0256	102	0.0250	0.0268	107	5	80-120	20
Thallium	ND	0.0250	0.0260	104	0.0250	0.0271	108	4	80-120	20
Tin	ND	0.0250	0.0267	107	0.0250	0.0276	110	3	80-120	20
Titanium	ND	0.0250	0.0264	105	0.0250	0.0273	109	4	80-120	20
Vanadium	ND	0.0250	0.0253	101	0.0250	0.0264	106	4	80-120	20
Zinc	ND	0.0500	0.0538	108	0.0500	0.0564	113	5	80-120	20
Lithium	ND	0.0250	0.0253	101	0.0250	0.0268	107	6	80-120	20
Phosphorus	ND	0.250	0.253	101	0.250	0.265	106	4	80-120	20
Zirconium	ND	0.0250	0.0257	103	0.0250	0.0269	107	4	80-120	20

METHOD 7471A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D256  
=====

Matrix : SOIL  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF MOIST		RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGD031SB	ND	1	NA	0.100	0.0500	05/01/1212:16	04/30/1217:30	M47E001010	M47E001008	HGD031S	NA	04/30/12
LCS1S	HGD031SL	0.877	1	NA	0.100	0.0500	05/01/1212:18	04/30/1217:30	M47E001011	M47E001008	HGD031S	NA	04/30/12
LCD1S	HGD031SC	0.872	1	NA	0.100	0.0500	05/01/1212:20	04/30/1217:30	M47E001012	M47E001008	HGD031S	NA	04/30/12
I-647-HB03-SS0.0AS	D215-01A	0.946	0.998	6.6	0.107	0.0534	05/01/1212:22	04/30/1217:30	M47E001013	M47E001008	HGD031S	04/24/12	04/25/12
I-647-HB03-SS0.0	D215-01	ND	0.998	6.6	0.107	0.0534	05/01/1212:24	04/30/1217:30	M47E001014	M47E001008	HGD031S	04/24/12	04/25/12
I-647-HB03-SS0.0DL	D215-01J	ND	4.99	6.6	0.534	0.267	05/01/1212:26	04/30/1217:30	M47E001015	M47E001008	HGD031S	04/24/12	04/25/12
SL-709-SA5C-SB-0.0-0.5	D256-10	0.574	1.00	4.7	0.105	0.0525	05/01/1213:10	04/30/1217:30	M47E001036	M47E001032	HGD031S	04/26/12	04/26/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D256  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGD031SB HGD031SL HGD031SC  
LAB FILE ID: M47E001010 M47E001011 M47E001012  
DATIME EXTRCTD: 04/30/1217:30 04/30/1217:30 04/30/1217:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/01/1212:16 05/01/1212:18 05/01/1212:20 DATE RECEIVED: 04/30/12  
PREP. BATCH: HGD031S HGD031S HGD031S  
CALIB. REF: M47E001008 M47E001008 M47E001008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.877	105	.833	.872	105	1	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D256  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 6.6  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: I-647-HB03-SS0.0  
CONTROL NO.: D215-01 D215-01A  
LAB FILE ID: M47E001014 M47E001013  
DATIME EXTRCTD: 04/30/1217:30 04/30/1217:30 DATE COLLECTED: 04/24/12  
DATIME ANALYZD: 05/01/1212:24 05/01/1212:22 DATE RECEIVED: 04/25/12  
PREP. BATCH: HGD031S HGD031S  
CALIB. REF: M47E001008 M47E001008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.89	.946	106	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D256  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	6.6
DILUTION FACTOR:	0.998	4.99		
SAMPLE ID:	I-647-HB03-SS0.0	I-647-HB03-SS0.0DL		
EMAX SAMP ID:	D215-01	D215-01J		
LAB FILE ID:	M47E001014	M47E001015		
DATE EXTRACTED:	04/30/1217:30	04/30/1217:30	DATE COLLECTED:	04/24/12
DATE ANALYZED:	05/01/1212:24	05/01/1212:26	DATE RECEIVED:	04/25/12
PREP. BATCH:	HGD031S	HGD031S		
CALIB. REF:	M47E001008	M47E001008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 7199  
HEXAVALENT CHROMIUM

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D256

Matrix : WATER  
Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCD029WB	ND	1	NA	0.200	0.100	04/27/1211:52	NA	ID27071	ID27069	HCD029W	NA	NA
MBLK1W	HCD029WQ	ND	1	NA	0.200	0.100	04/27/1212:03	NA	ID27072	ID27069	HCD029W	NA	NA
LCS1W	HCD029WL	1.84	1	NA	0.200	0.100	04/27/1212:34	NA	ID27075	ID27069	HCD029W	NA	NA
LCS1W	HCD029WX	1.84	1	NA	0.200	0.100	04/27/1212:44	NA	ID27076	ID27069	HCD029W	NA	NA
LCD1W	HCD029WC	1.89	1	NA	0.200	0.100	04/27/1212:55	NA	ID27077	ID27069	HCD029W	NA	NA
LCD1W	HCD029WY	1.88	1	NA	0.200	0.100	04/27/1213:05	NA	ID27078	ID27069	HCD029W	NA	NA
EB-042612	D256-08	ND	1	NA	0.200	0.100	04/27/1212:13	NA	ID27073	ID27069	HCD029W	04/26/1214:50	04/26/12
EB-042612	D256-08R	ND	1	NA	0.200	0.100	04/27/1212:23	NA	ID27074	ID27069	HCD029W	04/26/1214:50	04/26/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCD029WB HCD029WL HCD029WC  
LAB FILE ID: ID27071 ID27075 ID27077  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 04/27/1211:52 04/27/1212:34 04/27/1212:55 DATE RECEIVED: NA  
PREP. BATCH: HCD029W HCD029W HCD029W  
CALIB. REF: ID27069 ID27069 ID27069

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.84	92	2.00	1.89	94	3	80-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCD029WQ HCD029WX HCD029WY  
LAB FILE ID: ID27072 ID27076 ID27078  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 04/27/1212:03 04/27/1212:44 04/27/1213:05 DATE RECEIVED: NA  
PREP. BATCH: HCD029W HCD029W HCD029W  
CALIB. REF: ID27069 ID27069 ID27069

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.84	92	2.00	1.88	94	2	80-120	20

METHOD 7199  
 HEXAVALENT CHROMIUM

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12D256

Matrix : SOIL  
 Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCE001SB	ND	1	NA	1.00	0.500	05/02/1216:38	05/01/1215:17	IE02013	IE02011	HCE001S	NA	05/01/12
MBLK1S	HCE001SQ	ND	1	NA	1.00	0.500	05/02/1216:48	05/01/1215:17	IE02014	IE02011	HCE001S	NA	05/01/12
LCS1S	CSE001SL	10.6	1	NA	1.00	0.500	05/02/1216:58	05/01/1215:17	IE02015	IE02011	HCE001S	NA	05/01/12
LCS1S	CSE001SX	10.4	1	NA	1.00	0.500	05/02/1217:09	05/01/1215:17	IE02016	IE02011	HCE001S	NA	05/01/12
LCS2S	CIE001SL	366	20	NA	20.0	10.0	05/02/1217:19	05/01/1215:17	IE02017	IE02011	HCE001S	NA	05/01/12
LCS2S	CIE001SX	311	20	NA	20.0	10.0	05/02/1217:30	05/01/1215:17	IE02018	IE02011	HCE001S	NA	05/01/12
SL-695-SA5C-SB-0.0-0.5MS	D256-02M	10.9	1	7.5	1.08	0.541	05/02/1217:40	05/01/1215:17	IE02019	IE02011	HCE001S	04/26/1209:25	04/26/12
SL-695-SA5C-SB-0.0-0.5MS	D256-02M1	9.36	1	7.5	1.08	0.541	05/02/1217:50	05/01/1215:17	IE02020	IE02011	HCE001S	04/26/1209:25	04/26/12
SL-695-SA5C-SB-0.0-0.5MSDD	256-02S	10.3	1	7.5	1.08	0.541	05/02/1218:01	05/01/1215:17	IE02021	IE02011	HCE001S	04/26/1209:25	04/26/12
SL-695-SA5C-SB-0.0-0.5MSDD	256-02S1	10.8	1	7.5	1.08	0.541	05/02/1218:11	05/01/1215:17	IE02022	IE02011	HCE001S	04/26/1209:25	04/26/12
SL-695-SA5C-SB-0.0-0.5MS	D256-02G	435	20	7.5	21.6	10.8	05/02/1218:43	05/01/1215:17	IE02025	IE02023	HCE001S	04/26/1209:25	04/26/12
SL-695-SA5C-SB-0.0-0.5MS	D256-02G1	418	20	7.5	21.6	10.8	05/02/1218:53	05/01/1215:17	IE02026	IE02023	HCE001S	04/26/1209:25	04/26/12
SL-695-SA5C-SB-0.0-0.5MSDD	256-02H	387	20	7.5	21.6	10.8	05/02/1219:03	05/01/1215:17	IE02027	IE02023	HCE001S	04/26/1209:25	04/26/12
SL-695-SA5C-SB-0.0-0.5MSDD	256-02H1	405	20	7.5	21.6	10.8	05/02/1219:14	05/01/1215:17	IE02028	IE02023	HCE001S	04/26/1209:25	04/26/12
SL-695-SA5C-SB-0.0-0.5	D256-02	ND	1	7.5	1.08	0.541	05/02/1219:24	05/01/1215:17	IE02029	IE02023	HCE001S	04/26/1209:25	04/26/12
SL-695-SA5C-SB-0.0-0.5	D256-02R	ND	1	7.5	1.08	0.541	05/02/1219:35	05/01/1215:17	IE02030	IE02023	HCE001S	04/26/1209:25	04/26/12
SL-995-SA5C-SB-0.0-0.5	D256-03	ND	1	7.2	1.08	0.539	05/02/1219:45	05/01/1215:17	IE02031	IE02023	HCE001S	04/26/1209:30	04/26/12
SL-995-SA5C-SB-0.0-0.5	D256-03R	ND	1	7.2	1.08	0.539	05/02/1219:55	05/01/1215:17	IE02032	IE02023	HCE001S	04/26/1209:30	04/26/12
SL-703-SA5C-SB-0.0-0.5	D256-07	ND	1	8.4	1.09	0.546	05/02/1220:06	05/01/1215:17	IE02033	IE02023	HCE001S	04/26/1210:20	04/26/12
SL-703-SA5C-SB-0.0-0.5	D256-07R	ND	1	8.4	1.09	0.546	05/02/1220:16	05/01/1215:17	IE02034	IE02023	HCE001S	04/26/1210:20	04/26/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE001SB CSE001SL  
LAB FILE ID: IE02013 IE02015  
DATE EXTRACTED: 05/01/1215:17 05/01/1215:17 DATE COLLECTED: NA  
DATE ANALYZED: 05/02/1216:38 05/02/1216:58 DATE RECEIVED: 05/01/12  
PREP. BATCH: HCE001S HCE001S  
CALIB. REF: IE02011 IE02011

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
-----	-----	-----	-----	-----	-----
Hexavalent Chromium	ND	10.0	10.6	106	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE001SQ CSE001SX  
LAB FILE ID: IE02014 IE02016  
DATE EXTRACTED: 05/01/1215:17 05/01/1215:17 DATE COLLECTED: NA  
DATE ANALYZED: 05/02/1216:48 05/02/1217:09 DATE RECEIVED: 05/01/12  
PREP. BATCH: HCE001S HCE001S  
CALIB. REF: IE02011 IE02011

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
----- Hexavalent Chromium	ND	10.0	10.4	104	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 20  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE001SB CIE001SL  
LAB FILE ID: IE02013 IE02017  
DATE EXTRACTED: 05/01/1215:17 05/01/1215:17 DATE COLLECTED: NA  
DATE ANALYZED: 05/02/1216:38 05/02/1217:19 DATE RECEIVED: 05/01/12  
PREP. BATCH: HCE001S HCE001S  
CALIB. REF: IE02011 IE02011

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	364	366	101	80-120

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EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 20  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE001SQ CIE001SX  
LAB FILE ID: IE02014 IE02018  
DATE EXTRACTED: 05/01/1215:17 05/01/1215:17 DATE COLLECTED: NA  
DATE ANALYZED: 05/02/1216:48 05/02/1217:30 DATE RECEIVED: 05/01/12  
PREP. BATCH: HCE001S HCE001S  
CALIB. REF: IE02011 IE02011

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	364	311	85	80-120

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
LAB SAMP ID: D256-02 D256-02M D256-02S  
LAB FILE ID: IE02029 IE02019 IE02021  
DATE EXTRACTED: 05/01/1215:17 05/01/1215:17 05/01/1215:17 DATE COLLECTED: 04/26/12 09:25  
DATE ANALYZED: 05/02/1219:24 05/02/1217:40 05/02/1218:01 DATE RECEIVED: 04/26/12  
PREP. BATCH: HCE001S HCE001S HCE001S  
CALIB. REF: IE02023 IE02011 IE02011

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	10.8	10.9	101	10.8	10.3	95	6	75-125	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
LAB SAMP ID: D256-02R D256-02M1 D256-02S1  
LAB FILE ID: IE02030 IE02020 IE02022  
DATE EXTRACTED: 05/01/1215:17 05/01/1215:17 05/01/1215:17 DATE COLLECTED: 04/26/12 09:25  
DATE ANALYZED: 05/02/1219:35 05/02/1217:50 05/02/1218:11 DATE RECEIVED: 04/26/12  
PREP. BATCH: HCE001S HCE001S HCE001S  
CALIB. REF: IE02023 IE02011 IE02011

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	10.8	9.36	87	10.8	10.8	99	14	75-125	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILUTION FACTOR: 1 20 20  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
LAB SAMP ID: D256-02 D256-02G D256-02H  
LAB FILE ID: IE02029 IE02025 IE02027  
DATE EXTRACTED: 05/01/1215:17 05/01/1215:17 05/01/1215:17 DATE COLLECTED: 04/26/12 09:25  
DATE ANALYZED: 05/02/1219:24 05/02/1218:43 05/02/1219:03 DATE RECEIVED: 04/26/12  
PREP. BATCH: HCE001S HCE001S HCE001S  
CALIB. REF: IE02023 IE02023 IE02023

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	479	435	91	440	387	88	12	75-125	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D256  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILUTION FACTOR: 1 20 20  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
LAB SAMP ID: D256-02R D256-02G1 D256-02H1  
LAB FILE ID: IE02030 IE02026 IE02028  
DATE EXTRACTED: 05/01/1215:17 05/01/1215:17 05/01/1215:17 DATE COLLECTED: 04/26/12 09:25  
DATE ANALYZED: 05/02/1219:35 05/02/1218:53 05/02/1219:14 DATE RECEIVED: 04/26/12  
PREP. BATCH: HCE001S HCE001S HCE001S  
CALIB. REF: IE02023 IE02023 IE02023

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	479	418	87	440	405	92	3	75-125	20

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D256  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB-042612	D256-08	5.63	1	NA	NA	04/26/1219:04	NA	12PHD033W01	PHD033W	PHD033W	04/26/1214:50	04/26/12
EB-042612DUP	D256-08D	5.55	1	NA	NA	04/26/1219:10	NA	12PHD033W02	PHD033W	PHD033W	04/26/1214:50	04/26/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.:	12D256	DATE RECEIVED:	04/26/12
SAMPLE ID:	EB-042612DUP	DATE EXTRACTED:	NA
CONTROL NO.:	D256-08D	DATE ANALYZED:	04/26/1219:10

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	5.63	5.55	0.08	0.10

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D256  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-571-SA5C-SB-0.0-0.5	D256-01	7.21	1	NA	NA	NA	04/27/1218:26	04/27/1218:26	12PHD034S01	PHD034S	PHD034S	04/26/1208:45	04/26/12
SL-571-SA5C-SB-0.0-0.5DUP	D256-01D	7.18	1	NA	NA	NA	04/27/1218:28	04/27/1218:26	12PHD034S02	PHD034S	PHD034S	04/26/1208:45	04/26/12
SL-702-SA5C-SB-0.0-0.5	D256-06	7.59	1	NA	NA	NA	04/27/1218:30	04/27/1218:26	12PHD034S03	PHD034S	PHD034S	04/26/1210:55	04/26/12
SL-703-SA5C-SB-0.0-0.5	D256-07	7.39	1	NA	NA	NA	04/27/1218:32	04/27/1218:26	12PHD034S04	PHD034S	PHD034S	04/26/1210:20	04/26/12
SL-711-SA5C-SB-0.0-0.5	D256-11	8.34	1	NA	NA	NA	04/27/1218:36	04/27/1218:26	12PHD034S05	PHD034S	PHD034S	04/26/1214:40	04/26/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12D256	DATE RECEIVED:	04/26/12
SAMPLE ID:	SL-571-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	04/27/1218:26
CONTROL NO.:	D256-01D	DATE ANALYZED:	04/27/1218:28

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	7.21	7.18	0.03	0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/04/12 15:05
Sample ID    : SL-712-SA5C-SB-0.0-0.5          Date Analyzed: 05/10/12 01:10
Lab Samp ID  : D275-09W                         Dilution Factor: 1
Lab File ID  : REJ244                           Matrix          : SOIL
Ext Btch ID  : SVE008S                          % Moisture     : 4.9
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.6
ACENAPHTHYLENE	ND	11	2.6
ANTHRACENE	ND	11	2.6
BENZO (A) ANTHRACENE	ND	11	2.6
BENZO (A) PYRENE	ND	11	2.6
BENZO (B) FLUORANTHENE	ND	11	2.6
BENZO (K) FLUORANTHENE	ND	11	2.6
BENZO (G, H, I) PERYLENE	ND	11	2.6
CHRYSENE	ND	11	2.6
DIBENZO (A, H) ANTHRACENE	ND	11	2.6
FLUORANTHENE	ND	11	2.6
FLUORENE	ND	11	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.6
NAPHTHALENE	ND	11	2.6
PHENANTHRENE	ND	11	2.6
2-METHYLNAPHTHALENE	ND	11	2.6
1-METHYLNAPHTHALENE	ND	11	2.6
N-NITROSODIMETHYLAMINE	ND	11	2.6
PYRENE	ND	11	2.6
AZOBENZENE	ND	5.3	2.6
BENZO (E) PYRENE	ND	5.3	2.6
BIPHENYL	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	153	350.5	43.7	40-130
2-FLUOROBIPHENYL	162	350.5	46.2	45-130
TERPHENYL-D14	381	350.5	109	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/04/12 15:05
Sample ID    : SL-713-SA5C-SB-0.0-0.5          Date Analyzed: 05/10/12 01:29
Lab Samp ID  : D275-10W                         Dilution Factor: 1
Lab File ID  : REJ245                           Matrix          : SOIL
Ext Btch ID  : SVE008S                          % Moisture     : 6.6
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	150	356.9	42.1	40-130
2-FLUOROBIPHENYL	153	356.9	43.0*	45-130
TERPHENYL-D14	327	356.9	91.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                       Date Received: 04/30/12
Batch No.    : 12D275                             Date Extracted: 05/04/12 15:05
Sample ID    : SL-715-SA5C-SB-0.0-0.5           Date Analyzed: 05/07/12 18:28
Lab Samp ID  : D275-11                           Dilution Factor: 1
Lab File ID  : REJ152                             Matrix          : SOIL
Ext Btch ID  : SVE008S                            % Moisture     : 4.9
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.6
ACENAPHTHYLENE	ND	11	2.6
ANTHRACENE	ND	11	2.6
BENZO (A) ANTHRACENE	ND	11	2.6
BENZO (A) PYRENE	ND	11	2.6
BENZO (B) FLUORANTHENE	ND	11	2.6
BENZO (K) FLUORANTHENE	ND	11	2.6
BENZO (G, H, I) PERYLENE	ND	11	2.6
CHRYSENE	ND	11	2.6
DIBENZO (A, H) ANTHRACENE	ND	11	2.6
FLUORANTHENE	ND	11	2.6
FLUORENE	ND	11	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.6
NAPHTHALENE	ND	11	2.6
PHENANTHRENE	ND	11	2.6
2-METHYLNAPHTHALENE	ND	11	2.6
1-METHYLNAPHTHALENE	ND	11	2.6
N-NITROSODIMETHYLAMINE	ND	11	2.6
PYRENE	ND	11	2.6
AZOBENZENE	ND	5.3	2.6
BENZO (E) PYRENE	ND	5.3	2.6
BIPHENYL	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	161	350.5	46.0	40-130
2-FLUOROBIPHENYL	163	350.5	46.6	45-130
TERPHENYL-D14	308	350.5	87.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/04/12 15:05
Sample ID    : SL-720-SA5C-SB-0.0-0.5          Date Analyzed: 05/07/12 18:47
Lab Samp ID  : D275-12                          Dilution Factor: 1
Lab File ID  : REJ153                           Matrix          : SOIL
Ext Btch ID  : SVE008S                          % Moisture     : 6.2
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	ND	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	165	355.3	46.4	40-130
2-FLUOROBIPHENYL	162	355.3	45.7	45-130
TERPHENYL-D14	279	355.3	78.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/04/12
Batch No.    : 12D275                           Date Extracted: 05/04/12 15:05
Sample ID    : MBLK1S                            Date Analyzed: 05/04/12 23:12
Lab Samp ID  : SVE008SB                         Dilution Factor: 1
Lab File ID  : REJ117                           Matrix          : SOIL
Ext Btch ID  : SVE008S                          % Moisture      : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	250	333.3	75.1	40-130
2-FLUOROBIPHENYL	218	333.3	65.3	45-130
TERPHENYL-D14	276	333.3	82.8	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D275  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE008SB SVE008SL SVE008SC  
LAB FILE ID: REJ117 REJ115 REJ116  
DATE EXTRACTED: 05/04/1215:05 05/04/1215:05 05/04/1215:05 DATE COLLECTED: NA  
DATE ANALYZED: 05/04/1223:12 05/04/1222:34 05/04/1222:53 DATE RECEIVED: 05/04/12  
PREP. BATCH: SVE008S SVE008S SVE008S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	253	76	333	278	84	9	10-130	50
Acenaphthylene	ND	333	288	87	333	317	95	9	20-130	50
Anthracene	ND	333	273	82	333	282	84	3	20-130	50
Benzo (a) anthracene	ND	333	293	88	333	285	85	3	30-130	50
Benzo (a) pyrene	ND	333	336	101	333	347	104	3	30-130	50
Benzo (b) fluoranthene	ND	333	360	108	333	365	109	1	40-130	50
Benzo (k) fluoranthene	ND	333	328	98	333	346	104	5	30-140	50
Benzo (g, h, i) perylene	ND	333	358	108	333	364	109	2	30-140	50
Chrysene	ND	333	276	83	333	269	81	3	30-140	50
Dibenzo (a, h) anthracene	ND	333	365	110	333	370	111	1	40-140	50
Fluoranthene	ND	333	310	93	333	307	92	1	30-130	50
Fluorene	ND	333	285	86	333	300	90	5	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	364	109	333	370	111	2	20-160	50
Naphthalene	ND	333	239	72	333	267	80	11	10-130	50
Phenanthrene	ND	333	270	81	333	280	84	4	20-130	50
2-Methylnaphthalene	ND	333	261	78	333	290	87	11	30-150	50
1-Methylnaphthalene	ND	333	260	78	333	290	87	11	30-150	50
N-Nitrosodimethylamine	ND	333	240	72	333	286	86	18	30-150	50
Pyrene	ND	333	294	88	333	291	87	1	20-150	50
Azobenzene	ND	333	254	76	333	311	93	20	30-150	50
Benzo (e) pyrene	ND	333	323	97	333	321	96	1	30-150	50
Biphenyl	ND	333	236	71	333	256	77	8	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	249	75	333	292	88	40-130
2-Fluorobiphenyl	333	232	70	333	242	73	45-130
Terphenyl-d14	333	304	91	333	281	84	45-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                       Date Received: 04/30/12
Batch No.    : 12D275                             Date Extracted: 05/03/12 10:25
Sample ID:   SL-712-SA5C-SB-0.0-0.5              Date Analyzed: 05/03/12 21:34
Lab Samp ID: D275-09                             Dilution Factor: 1
Lab File ID: LE03030A                            Matrix          : SOIL
Ext Btch ID: DSE003S                              % Moisture     : 4.9
Calib. Ref.: LE03027A                            Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.6
EFH(C12-C14)	ND	5.3	2.6
EFH(C15-C20)	ND	5.3	2.6
EFH(C21-C30)	3.5J	5.3	2.6
EFH(C30-C40)	7.8J	11	5.3
TOTAL EFH(C8-C40)	11	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.3	105.2	69.7	50-150
HEXACOSANE	21.8	26.29	82.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/03/12 10:25
Sample ID:   SL-713-SA5C-SB-0.0-0.5           Date Analyzed: 05/03/12 21:51
Lab Samp ID: D275-10                           Dilution Factor: 1
Lab File ID: LE03031A                          Matrix          : SOIL
Ext Btch ID: DSE003S                            % Moisture     : 6.6
Calib. Ref.: LE03027A                          Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	4.7J	5.4	2.7
EFH(C30-C40)	9.0J	11	5.4
TOTAL EFH(C8-C40)	14	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.2	107.1	67.4	50-150
HEXACOSANE	21.2	26.77	79.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/03/12 10:25
Sample ID:   SL-715-SA5C-SB-0.0-0.5            Date Analyzed: 05/03/12 22:08
Lab Samp ID: D275-11                            Dilution Factor: 1
Lab File ID: LE03032A                          Matrix          : SOIL
Ext Btch ID: DSE003S                            % Moisture     : 4.9
Calib. Ref.: LE03027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.6
EFH(C12-C14)	ND	5.3	2.6
EFH(C15-C20)	ND	5.3	2.6
EFH(C21-C30)	5.3	5.3	2.6
EFH(C30-C40)	6.8J	11	5.3
TOTAL EFH(C8-C40)	12	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.9	105.2	71.2	50-150
HEXACOSANE	21.7	26.29	82.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/03/12 10:25
Sample ID    : SL-720-SA5C-SB-0.0-0.5          Date Analyzed: 05/03/12 22:25
Lab Samp ID  : D275-12                           Dilution Factor: 1
Lab File ID  : LE03033A                          Matrix          : SOIL
Ext Btch ID  : DSE003S                            % Moisture     : 6.2
Calib. Ref.  : LE03027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	4.4J	5.3	2.7
EFH(C30-C40)	11	11	5.3
TOTAL EFH(C8-C40)	15	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.3	106.6	67.8	50-150
HEXACOSANE	22.4	26.65	83.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12D275                           Date Extracted: 05/03/12 10:25
Sample ID    : MBLK1S                            Date Analyzed: 05/03/12 14:32
Lab Samp ID  : DSE003SB                         Dilution Factor: 1
Lab File ID  : LE03005A                         Matrix          : SOIL
Ext Btch ID  : DSE003S                          % Moisture     : NA
Calib. Ref.  : LE03003A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.5	100.0	74.5	50-150
HEXACOSANE	20.4	25.00	81.4	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D275  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE003SB DSE003SL DSE003SC  
LAB FILE ID: LE03005A LE03006A LE03007A  
DATE EXTRACTED: 05/03/1210:25 05/03/1210:25 05/03/1210:25 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1214:32 05/03/1214:49 05/03/1215:06 DATE RECEIVED: 05/03/12  
PREP. BATCH: DSE003S DSE003S DSE003S  
CALIB. REF: LE03003A LE03003A LE03003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	493	99	500	465	93	6	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	84.0	84	100	79.7	80	50-150
Hexacosane	25.0	22.6	91	25.0	21.3	85	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID    : SL-710A-SA5C-SB-0.0-0.5         Date Analyzed: 05/12/12 05:21
Lab Samp ID  : D275-01W                         Dilution Factor: 1
Lab File ID  : SE11023A                        Matrix          : SOIL
Ext Btch ID  : CPE009S                         % Moisture      : 6.0
Calib. Ref.  : SE11020A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	14.57   (15.05)	14.18	103   (106)	45-120
TETRACHLORO-M-XYLENE	(14.43)   13.98	14.18	(102)   98.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID    : SL-710A-SA5C-SB-2.0-3.0         Date Analyzed: 05/12/12 05:55
Lab Samp ID  : D275-02W                         Dilution Factor: 1
Lab File ID  : SE11024A                        Matrix          : SOIL
Ext Btch ID  : CPE009S                         % Moisture     : 8.4
Calib. Ref.  : SE11020A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.53)   14.42	14.55	(99.9)   99.1	45-120
TETRACHLORO-M-XYLENE	13.48   (13.67)	14.55	92.6   (94.0)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 04/30/12
Project    : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.  : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID: SL-710B-SA5C-SB-0.0-0.5          Date Analyzed: 05/12/12 06:29
Lab Samp ID: D275-03W                        Dilution Factor: 1
Lab File ID: SE11025A                       Matrix          : SOIL
Ext Btch ID: CPE009S                        % Moisture     : 6.4
Calib. Ref.: SE11020A                       Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.72   (14.13)	14.24	96.3   (99.2)	45-120
TETRACHLORO-M-XYLENE	(14.46)   13.95	14.24	(102)   97.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID    : SL-710B-SA5C-SB-2.0-3.0         Date Analyzed: 05/12/12 07:38
Lab Samp ID  : D275-04W                         Dilution Factor: 1
Lab File ID  : SE11027A                        Matrix          : SOIL
Ext Btch ID  : CPE009S                         % Moisture     : 7.2
Calib. Ref.  : SE11020A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.78)   14.61	14.36	(103)   102	45-120
TETRACHLORO-M-XYLENE	(14.37)   14.06	14.36	(100)   97.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 04/30/12
Project     : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.   : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID   : SL-710C-SA5C-SB-0.0-0.5         Date Analyzed: 05/12/12 08:12
Lab Samp ID: D275-05W                         Dilution Factor: 1
Lab File ID: SE11028A                        Matrix          : SOIL
Ext Btch ID: CPE009S                          % Moisture     : 4.8
Calib. Ref.: SE11020A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.62   (13.94)	14.00	97.3   (99.6)	45-120
TETRACHLORO-M-XYLENE	(13.57)   13.54	14.00	(96.9)   96.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID:   SL-710C-SA5C-SB-2.0-3.0           Date Analyzed: 05/12/12 08:46
Lab Samp ID: D275-06W                           Dilution Factor: 1
Lab File ID: SE11029A                           Matrix          : SOIL
Ext Btch ID: CPE009S                             % Moisture     : 12.4
Calib. Ref.: SE11020A                           Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	14.99   (15.09)	15.22	98.5   (99.1)	45-120
TETRACHLORO-M-XYLENE	(14.31)   14.10	15.22	(94.1)   92.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID    : SL-710D-SA5C-SB-0.0-0.5         Date Analyzed: 05/12/12 09:20
Lab Samp ID  : D275-07W                         Dilution Factor: 1
Lab File ID  : SE11030A                        Matrix          : SOIL
Ext Btch ID  : CPE009S                         % Moisture     : 5.8
Calib. Ref.  : SE11020A                       Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	14.24   (14.45)	14.15	101   (102)	45-120
TETRACHLORO-M-XYLENE	(13.87)   13.45	14.15	(98.0)   95.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID    : SL-710D-SA5C-SB-2.0-3.0         Date Analyzed: 05/12/12 09:55
Lab Samp ID  : D275-08W                         Dilution Factor: 1
Lab File ID  : SE11031A                        Matrix          : SOIL
Ext Btch ID  : CPE009S                          % Moisture     : 12.5
Calib. Ref.  : SE11020A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	14.42   (14.53)	15.23	94.7   (95.4)	45-120
TETRACHLORO-M-XYLENE	(13.27)   13.21	15.23	(87.1)   86.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID    : SL-712-SA5C-SB-0.0-0.5          Date Analyzed: 05/12/12 10:29
Lab Samp ID  : D275-09W                         Dilution Factor: 1
Lab File ID  : SE11032A                        Matrix          : SOIL
Ext Btch ID  : CPE009S                          % Moisture     : 4.9
Calib. Ref.  : SE11020A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	16J   (11J)	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIIPHENYL	13.57   (14.33)	14.02	96.8   (102)	45-120
TETRACHLORO-M-XYLENE	(14.51)   14.22	14.02	(103)   101	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID:   SL-713-SA5C-SB-0.0-0.5            Date Analyzed: 05/12/12 11:03
Lab Samp ID: D275-10W                           Dilution Factor: 1
Lab File ID: SE11033A                           Matrix          : SOIL
Ext Btch ID: CPE009S                            % Moisture     : 6.6
Calib. Ref.: SE11020A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	69   (78)	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.36   (14.19)	14.27	93.6   (99.4)	45-120
TETRACHLORO-M-XYLENE	(14.44)   13.79	14.27	(101)   96.6	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID    : SL-715-SA5C-SB-0.0-0.5          Date Analyzed: 05/12/12 11:37
Lab Samp ID  : D275-11W                         Dilution Factor: 1
Lab File ID  : SE11034A                        Matrix          : SOIL
Ext Btch ID  : CPE009S                          % Moisture     : 4.9
Calib. Ref.  : SE11020A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	30   (23)	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.36   (13.95)	14.02	95.3   (99.5)	45-120
TETRACHLORO-M-XYLENE	(14.19)   14.06	14.02	(101)   100	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 04/30/12
Project      : SSFL PHASE 3                     Date Received: 04/30/12
Batch No.    : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID    : SL-720-SA5C-SB-0.0-0.5          Date Analyzed: 05/12/12 12:13
Lab Samp ID  : D275-12W                         Dilution Factor: 1
Lab File ID  : SE11035A                        Matrix          : SOIL
Ext Btch ID  : CPE009S                         % Moisture     : 6.2
Calib. Ref.  : SE11020A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.71   (14.31)	14.21	96.5   (101)	45-120
TETRACHLORO-M-XYLENE	(15.03)   14.13	14.21	(106)   99.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.   : 12D275                           Date Extracted: 05/08/12 11:37
Sample ID   : MBLK1S                           Date Analyzed: 05/11/12 23:05
Lab Samp ID: 60E009SB                         Dilution Factor: 1
Lab File ID: SE11012A                        Matrix          : SOIL
Ext Btch ID: CPE009S                          % Moisture     : NA
Calib. Ref.: SE11002A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.05)   14.05	13.33	105   (105)	45-120
TETRACHLORO-M-XYLENE	(13.24)   12.98	13.33	(99.3)   97.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D275  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E009SB 60E009SL 60E009SC  
LAB FILE ID: SE11012A SE11013A SE11014A  
DATE EXTRACTED: 05/08/1211:37 05/08/1211:37 05/08/1211:37 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1223:05 05/11/1223:39 05/12/1200:13 DATE RECEIVED: 05/08/12  
PREP. BATCH: CPE009S CPE009S CPE009S  
CALIB. REF: SE11002A SE11002A SE11002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	167   (176)	100   (106)	167	165   (178)	99   (107)	1   (1)	50-130	50
Aroclor 1260	(ND)   ND	167	(182)   181	(109)   109	167	(184)   184	(110)   110	(1)   2	60-150	50
Aroclor 5460	(ND)   ND	83.3	(109)   101	(131)   121	83.3	(108)   100	(130)   120	(1)   1	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	14.42   (14.48)	108   (109)	13.33	14.43   (14.45)	108   (108)	45-120
Tetrachloro-m-xylene	13.33	(13.11)   12.86	(98.3)   96.5	13.33	(12.92)   12.75	(96.9)   95.6	10-160

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/30/12
Project     : SSFL PHASE 3                     Date Received: 04/30/12
SDG NO.    : 12D275                           Date Extracted: 05/07/12 10:15
Sample ID:  SL-712-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 17:33
Lab Samp ID: D275-09                          Dilution Factor: 0.966
Lab File ID: 98E06045                         Matrix          : SOIL
Ext Btch ID: IME008S                          % Moisture     : 4.9
Calib. Ref.: 98E06037                         Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11600	102	12.2
Antimony	1.44	0.508	0.102
Arsenic	2.94	0.508	0.203
Barium	87.0	0.508	0.203
Beryllium	0.380J	0.508	0.0508
Boron	ND	5.08	2.54
Cadmium	0.415J	0.508	0.0508
Calcium	2860	20.3	10.2
Chromium	12.8	0.508	0.203
Cobalt	4.74	0.508	0.0508
Copper	7.18	0.508	0.203
Iron	18400	102	10.2
Lead	4.79	0.508	0.102
Magnesium	4250	10.2	5.08
Manganese	254	0.508	0.254
Molybdenum	0.313J	0.508	0.0508
Nickel	7.61	0.508	0.203
Potassium	3050	102	30.5
Selenium	ND	0.508	0.203
Silver	ND	0.508	0.0508
Sodium	95.5J	102	50.8
Strontium	16.7	0.508	0.254
Thallium	0.225J	0.406	0.0508
Tin	ND	10.2	5.08
Titanium	1060	1.02	0.508
Vanadium	28.6	0.508	0.0508
Zinc	101	5.08	1.52
Lithium	20.9	2.03	1.02
Phosphorus	343	12.2	6.09
Zirconium	ND	5.08	2.54

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/30/12
Project     : SSFL PHASE 3                     Date Received: 04/30/12
SDG NO.    : 12D275                            Date Extracted: 05/07/12 10:15
Sample ID: SL-713-SA5C-SB-0.0-0.5             Date Analyzed: 05/10/12 17:38
Lab Samp ID: D275-10                           Dilution Factor: 0.995
Lab File ID: 98E06046                          Matrix          : SOIL
Ext Btch ID: IME008S                            % Moisture     : 6.6
Calib. Ref.: 98E06037                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14300	107	12.8
Antimony	0.418J	0.533	0.107
Arsenic	4.07	0.533	0.213
Barium	115	0.533	0.213
Beryllium	0.558	0.533	0.0533
Boron	ND	5.33	2.66
Cadmium	0.627	0.533	0.0533
Calcium	3280	21.3	10.7
Chromium	17.6	0.533	0.213
Cobalt	6.12	0.533	0.0533
Copper	9.67	0.533	0.213
Iron	21300	107	10.7
Lead	6.92	0.533	0.107
Magnesium	4650	10.7	5.33
Manganese	363	0.533	0.266
Molybdenum	0.436J	0.533	0.0533
Nickel	11.2	0.533	0.213
Potassium	3270	107	32.0
Selenium	ND	0.533	0.213
Silver	ND	0.533	0.0533
Sodium	112	107	53.3
Strontium	19.4	0.533	0.266
Thallium	0.279J	0.426	0.0533
Tin	ND	10.7	5.33
Titanium	1120	1.07	0.533
Vanadium	33.1	0.533	0.0533
Zinc	131	5.33	1.60
Lithium	26.7	2.13	1.07
Phosphorus	324	12.8	6.39
Zirconium	ND	5.33	2.66

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 04/30/12
Project     : SSFL PHASE 3                     Date Received: 04/30/12
SDG NO.    : 12D275                           Date Extracted: 05/07/12 10:15
Sample ID:  SL-715-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 18:01
Lab Samp ID: D275-11                          Dilution Factor: 1.00
Lab File ID: 98E06051                         Matrix          : SOIL
Ext Btch ID: IME008S                           % Moisture     : 4.9
Calib. Ref.: 98E06049                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15100	105	12.6
Antimony	0.356J	0.526	0.105
Arsenic	5.65	0.526	0.210
Barium	104	0.526	0.210
Beryllium	0.550	0.526	0.0526
Boron	ND	5.26	2.63
Cadmium	0.251J	0.526	0.0526
Calcium	3480	21.0	10.5
Chromium	19.7	0.526	0.210
Cobalt	6.19	0.526	0.0526
Copper	10.6	0.526	0.210
Iron	21400	105	10.5
Lead	7.26	0.526	0.105
Magnesium	4690	10.5	5.26
Manganese	304	0.526	0.263
Molybdenum	0.505J	0.526	0.0526
Nickel	11.7	0.526	0.210
Potassium	3030	105	31.5
Selenium	ND	0.526	0.210
Silver	ND	0.526	0.0526
Sodium	94.9J	105	52.6
Strontium	20.6	0.526	0.263
Thallium	0.272J	0.421	0.0526
Tin	ND	10.5	5.26
Titanium	1110	1.05	0.526
Vanadium	36.2	0.526	0.0526
Zinc	70.3	5.26	1.58
Lithium	24.3	2.10	1.05
Phosphorus	317	12.6	6.31
Zirconium	ND	5.26	2.63

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 04/30/12
Project    : SSFL PHASE 3                     Date Received: 04/30/12
SDG NO.    : 12D275                           Date Extracted: 05/07/12 10:15
Sample ID  : SL-720-SA5C-SB-0.0-0.5          Date Analyzed: 05/10/12 18:05
Lab Samp ID: D275-12                           Dilution Factor: 1.00
Lab File ID: 98E06052                          Matrix          : SOIL
Ext Btch ID: IME008S                            % Moisture     : 6.2
Calib. Ref.: 98E06049                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16800	107	12.8
Antimony	0.220J	0.533	0.107
Arsenic	5.00	0.533	0.213
Barium	124	0.533	0.213
Beryllium	0.641	0.533	0.0533
Boron	3.21J	5.33	2.67
Cadmium	0.295J	0.533	0.0533
Calcium	4370	21.3	10.7
Chromium	23.1	0.533	0.213
Cobalt	6.98	0.533	0.0533
Copper	13.3	0.533	0.213
Iron	23000	107	10.7
Lead	8.83	0.533	0.107
Magnesium	5310	10.7	5.33
Manganese	335	0.533	0.267
Molybdenum	0.615	0.533	0.0533
Nickel	14.7	0.533	0.213
Potassium	2630	107	32.0
Selenium	ND	0.533	0.213
Silver	ND	0.533	0.0533
Sodium	98.0J	107	53.3
Strontium	26.8	0.533	0.267
Thallium	0.270J	0.426	0.0533
Tin	ND	10.7	5.33
Titanium	1070	1.07	0.533
Vanadium	39.4	0.533	0.0533
Zinc	69.1	5.33	1.60
Lithium	27.1	2.13	1.07
Phosphorus	325	12.8	6.40
Zirconium	ND	5.33	2.67

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/07/12
SDG NO.    : 12D275                             Date Extracted: 05/07/12 10:15
Sample ID  : MBLK1S                             Date Analyzed: 05/10/12 16:35
Lab Samp ID: IME008SB                           Dilution Factor: 1
Lab File ID: 98E06033                           Matrix          : SOIL
Ext Btch ID: IME008S                             % Moisture      : NA
Calib. Ref.: 98E06030                           Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D275  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME008SB IME008SL IME008SC  
LAB FILE ID: 98E06033 98E06034 98E06035  
DATIME EXTRACTD: 05/07/1210:15 05/07/1210:15 05/07/1210:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/10/1216:35 05/10/1216:40 05/10/1216:44 DATE RECEIVED: 05/07/12  
PREP. BATCH: IME008S IME008S IME008S  
CALIB. REF: 98E06030 98E06030 98E06030

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2900	116	2500	2790	112	4	80-120	20
Antimony	ND	25.0	24.8	99	25.0	23.9	95	4	80-120	20
Arsenic	ND	25.0	23.9	96	25.0	23.2	93	3	80-120	20
Barium	ND	25.0	25.7	103	25.0	24.9	100	3	80-120	20
Beryllium	ND	25.0	22.2	89	25.0	21.7	87	2	80-120	20
Boron	ND	25.0	24.8	99	25.0	24.4	98	2	80-120	20
Cadmium	ND	25.0	25.2	101	25.0	24.3	97	3	80-120	20
Calcium	ND	2500	2770	111	2500	2660	106	4	80-120	20
Chromium	ND	25.0	25.9	103	25.0	24.8	99	4	80-120	20
Cobalt	ND	25.0	25.2	101	25.0	24.1	97	4	80-120	20
Copper	ND	25.0	25.6	102	25.0	24.4	98	5	80-120	20
Iron	ND	2500	2730	109	2500	2650	106	3	80-120	20
Lead	ND	25.0	26.0	104	25.0	24.9	99	4	80-120	20
Magnesium	ND	2500	2970	119	2500	2840	114	4	80-120	20
Manganese	ND	25.0	26.0	104	25.0	24.9	100	4	80-120	20
Molybdenum	ND	25.0	25.2	101	25.0	24.4	98	3	80-120	20
Nickel	ND	25.0	25.3	101	25.0	24.3	97	4	80-120	20
Potassium	ND	2500	2730	109	2500	2630	105	4	80-120	20
Selenium	ND	25.0	25.3	101	25.0	24.7	99	2	80-120	20
Silver	ND	25.0	26.1	104	25.0	25.3	101	3	80-120	20
Sodium	ND	2500	2860	114	2500	2790	111	3	80-120	20
Strontium	ND	25.0	27.1	108	25.0	26.4	106	3	80-120	20
Thallium	ND	25.0	25.8	103	25.0	24.6	99	5	80-120	20
Tin	ND	25.0	28.6	114	25.0	27.7	111	3	80-120	20
Titanium	ND	25.0	26.1	104	25.0	25.1	101	4	80-120	20
Vanadium	ND	25.0	25.7	103	25.0	24.8	99	4	80-120	20
Zinc	ND	50.0	49.8	100	50.0	47.9	96	4	80-120	20
Lithium	ND	25.0	25.7	103	25.0	24.9	100	3	80-120	20
Phosphorus	ND	250	251	100	250	245	98	2	80-120	20
Zirconium	ND	25.0	26.0	104	25.0	25.4	102	2	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D275  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 4.2  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-722-SA5C-SB-0.0-0.5  
CONTROL NO.: E004-05 E004-05A  
LAB FILE ID: 98E06042 98E06041  
DATIME EXTRACTD: 05/07/1210:15 05/07/1210:15 DATE COLLECTED: 05/01/12  
DATIME ANALYZD: 05/10/1217:19 05/10/1217:15 DATE RECEIVED: 05/01/12  
PREP. BATCH: IME008S IME008S  
CALIB. REF: 98E06037 98E06037

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	5270	2610	7950	103	75-125
Antimony	0.141J	26.1	25.2	96	75-125
Arsenic	2.41	26.1	26.2	91	75-125
Barium	38.5	26.1	64.9	101	75-125
Beryllium	0.136J	26.1	23.5	90	75-125
Boron	ND	26.1	27.4	105	75-125
Cadmium	0.173J	26.1	25.4	97	75-125
Calcium	5390	2610	8090	103	75-125
Chromium	13.8	26.1	38.5	94	75-125
Cobalt	2.55	26.1	26.4	91	75-125
Copper	3.82	26.1	27.7	91	75-125
Iron	7400	2610	9990	99	75-125
Lead	1.54	26.1	27.5	100	75-125
Magnesium	1590	2610	4280	103	75-125
Manganese	108	26.1	132	91	75-125
Molybdenum	0.845	26.1	26.3	97	75-125
Nickel	7.83	26.1	31.5	91	75-125
Potassium	652	2610	3410	106	75-125
Selenium	0.387J	26.1	25.5	96	75-125
Silver	ND	26.1	26.0	100	75-125
Sodium	67.1J	2610	2820	106	75-125
Strontium	30.1	26.1	57.2	104	75-125
Thallium	ND	26.1	26.0	100	75-125
Tin	ND	26.1	28.6	110	75-125
Titanium	274	26.1	303	111	75-125
Vanadium	16.8	26.1	41.5	95	75-125
Zinc	14.1	52.2	62.0	92	75-125
Lithium	2.88	26.1	29.3	101	75-125
Phosphorus	386	261	665	107	75-125
Zirconium	3.08J	26.1	29.9	103	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12D275  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 4.2  
 DILUTION FACTOR: 1.00 5.00  
 SAMPLE ID: SL-722-SA5C-SB SL-722-SA5C-SB  
 EMAX SAMP ID: E004-05 E004-05J  
 LAB FILE ID: 98E06042 98E06043  
 DATE EXTRACTED: 05/07/1210:15 05/07/1210:15 DATE COLLECTED: 05/01/12  
 DATE ANALYZED: 05/10/1217:19 05/10/1217:24 DATE RECEIVED: 05/01/12  
 PREP. BATCH: IME008S IME008S  
 CALIB. REF: 98E06037 98E06037

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	5270	5270	0	10
Antimony	0.141J	ND	NA	10
Arsenic	2.41	2.33J	NA	10
Barium	38.5	38.1	1	10
Beryllium	0.136J	ND	NA	10
Boron	ND	ND	0	10
Cadmium	0.173J	ND	NA	10
Calcium	5390	5450	1	10
Chromium	13.8	14.0	1	10
Cobalt	2.55	2.69	6	10
Copper	3.82	4.13	8	10
Iron	7400	7410	0	10
Lead	1.54	1.56J	NA	10
Magnesium	1590	1600	1	10
Manganese	108	113	5	10
Molybdenum	0.845	0.857J	NA	10
Nickel	7.83	7.99	2	10
Potassium	652	661	1	10
Selenium	0.387J	ND	NA	10
Silver	ND	ND	0	10
Sodium	67.1J	ND	NA	10
Strontium	30.1	28.9	4	10
Thallium	ND	ND	0	10
Tin	ND	ND	0	10
Titanium	274	270	1	10
Vanadium	16.8	17.1	2	10
Zinc	14.1	16.9J	NA	10
Lithium	2.88	ND	NA	10
Phosphorus	386	391	1	10
Zirconium	3.08J	ND	NA	10

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12D275  
 =====

Matrix : SOIL  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF MOIST		RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCE002SB	ND	1	NA	1.00	0.500	05/09/1213:49	05/08/1215:01	IE09011	IE09009	HCE002S	NA	05/08/12
MBLK1S	HCE002SQ	ND	1	NA	1.00	0.500	05/09/1213:59	05/08/1215:01	IE09012	IE09009	HCE002S	NA	05/08/12
LCS1S	CSE002SL	8.72	1	NA	1.00	0.500	05/09/1214:09	05/08/1215:01	IE09013	IE09009	HCE002S	NA	05/08/12
LCS1S	CSE002SX	8.76	1	NA	1.00	0.500	05/09/1214:20	05/08/1215:01	IE09014	IE09009	HCE002S	NA	05/08/12
LCS2S	CIE002SL	198	20	NA	20.0	10.0	05/09/1214:30	05/08/1215:01	IE09015	IE09009	HCE002S	NA	05/08/12
LCS2S	CIE002SX	205	20	NA	20.0	10.0	05/09/1214:41	05/08/1215:01	IE09016	IE09009	HCE002S	NA	05/08/12
SL-715-SA5C-SB-0.0-0.5	D275-11	ND	1	4.9	1.05	0.526	05/09/1214:51	05/08/1215:01	IE09017	IE09009	HCE002S	04/30/1214:45	04/30/12
SL-715-SA5C-SB-0.0-0.5	D275-11R	ND	1	4.9	1.05	0.526	05/09/1215:01	05/08/1215:01	IE09018	IE09009	HCE002S	04/30/1214:45	04/30/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D275  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 20  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE002SQ CIE002SX  
LAB FILE ID: IE09012 IE09016  
DATE EXTRACTED: 05/08/1215:01 05/08/1215:01 DATE COLLECTED: NA  
DATE ANALYZED: 05/09/1213:59 05/09/1214:41 DATE RECEIVED: 05/08/12  
PREP. BATCH: HCE002S HCE002S  
CALIB. REF: IE09009 IE09009

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	230	205	89	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12D275  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE002SQ CSE002SX  
LAB FILE ID: IE09012 IE09014  
DATE EXTRACTED: 05/08/1215:01 05/08/1215:01 DATE COLLECTED: NA  
DATE ANALYZED: 05/09/1213:59 05/09/1214:20 DATE RECEIVED: 05/08/12  
PREP. BATCH: HCE002S HCE002S  
CALIB. REF: IE09009 IE09009

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.77	88	80-120

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12D275  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-712-SA5C-SB-0.0-0.5	D275-09	8.10	1	NA	NA	NA	05/01/1216:22	05/01/1216:22	12PHE001S01	PHE001S	PHE001S	04/30/1211:35	04/30/12
SL-713-SA5C-SB-0.0-0.5	D275-10	8.05	1	NA	NA	NA	05/01/1216:24	05/01/1216:22	12PHE001S02	PHE001S	PHE001S	04/30/1214:15	04/30/12
SL-715-SA5C-SB-0.0-0.5	D275-11	7.97	1	NA	NA	NA	05/01/1216:25	05/01/1216:22	12PHE001S03	PHE001S	PHE001S	04/30/1214:45	04/30/12
SL-715-SA5C-SB-0.0-0.5DUP	D275-11D	8.00	1	NA	NA	NA	05/01/1216:27	05/01/1216:22	12PHE001S04	PHE001S	PHE001S	04/30/1214:45	04/30/12
SL-720-SA5C-SB-0.0-0.5	D275-12	7.82	1	NA	NA	NA	05/01/1216:29	05/01/1216:22	12PHE001S05	PHE001S	PHE001S	04/30/1215:30	04/30/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12D275	DATE RECEIVED:	04/30/12
SAMPLE ID:	SL-715-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	05/01/1216:22
CONTROL NO.:	D275-11D	DATE ANALYZED:	05/01/1216:27

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	7.97	8.00	-0.03	0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/01/12
Project      : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.    : 12E004                           Date Extracted: 05/04/12 15:05
Sample ID:   SL-722-SA5C-SB-0.0-0.5           Date Analyzed: 05/07/12 14:42
Lab Samp ID: E004-05                           Dilution Factor: 1
Lab File ID: REJ140                             Matrix          : SOIL
Ext Btch ID: SVE008S                           % Moisture     : 4.2
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.6
ACENAPHTHYLENE	ND	10	2.6
ANTHRACENE	ND	10	2.6
BENZO (A) ANTHRACENE	ND	10	2.6
BENZO (A) PYRENE	ND	10	2.6
BENZO (B) FLUORANTHENE	ND	10	2.6
BENZO (K) FLUORANTHENE	ND	10	2.6
BENZO (G, H, I) PERYLENE	ND	10	2.6
CHRYSENE	ND	10	2.6
DIBENZO (A, H) ANTHRACENE	ND	10	2.6
FLUORANTHENE	ND	10	2.6
FLUORENE	ND	10	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.6
NAPHTHALENE	ND	10	2.6
PHENANTHRENE	ND	10	2.6
2-METHYLNAPHTHALENE	ND	10	2.6
1-METHYLNAPHTHALENE	ND	10	2.6
N-NITROSODIMETHYLAMINE	ND	10	2.6
PYRENE	ND	10	2.6
AZOBENZENE	ND	5.2	2.6
BENZO (E) PYRENE	ND	5.2	2.6
BIPHENYL	ND	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	183	347.9	52.5	40-130
2-FLUOROBIPHENYL	171	347.9	49.1	45-130
TERPHENYL-D14	320	347.9	92.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/01/12
Project      : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.    : 12E004                           Date Extracted: 05/04/12 15:05
Sample ID    : SL-1022-SA5C-SB-0.0-0.5         Date Analyzed: 05/07/12 15:01
Lab Samp ID  : E004-06                           Dilution Factor: 1
Lab File ID  : REJ141                            Matrix          : SOIL
Ext Btch ID  : SVE008S                           % Moisture     : 4.6
Calib. Ref.  : RAJ290                            Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.6
ACENAPHTHYLENE	ND	10	2.6
ANTHRACENE	ND	10	2.6
BENZO (A) ANTHRACENE	ND	10	2.6
BENZO (A) PYRENE	ND	10	2.6
BENZO (B) FLUORANTHENE	ND	10	2.6
BENZO (K) FLUORANTHENE	ND	10	2.6
BENZO (G, H, I) PERYLENE	ND	10	2.6
CHRYSENE	ND	10	2.6
DIBENZO (A, H) ANTHRACENE	ND	10	2.6
FLUORANTHENE	ND	10	2.6
FLUORENE	ND	10	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.6
NAPHTHALENE	ND	10	2.6
PHENANTHRENE	ND	10	2.6
2-METHYLNAPHTHALENE	ND	10	2.6
1-METHYLNAPHTHALENE	ND	10	2.6
N-NITROSODIMETHYLAMINE	ND	10	2.6
PYRENE	ND	10	2.6
AZOBENZENE	ND	5.2	2.6
BENZO (E) PYRENE	ND	5.2	2.6
BIPHENYL	ND	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	254	349.4	72.6	40-130
2-FLUOROBIPHENYL	214	349.4	61.3	45-130
TERPHENYL-D14	306	349.4	87.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/04/12
Batch No.    : 12E004                           Date Extracted: 05/04/12 15:05
Sample ID    : MBLK1S                           Date Analyzed: 05/04/12 23:12
Lab Samp ID  : SVE008SB                         Dilution Factor: 1
Lab File ID  : REJ117                           Matrix          : SOIL
Ext Btch ID  : SVE008S                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	250	333.3	75.1	40-130
2-FLUOROBIPHENYL	218	333.3	65.3	45-130
TERPHENYL-D14	276	333.3	82.8	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E004  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: LCS1S  
LAB SAMP ID: SVE008SL SVE008SC SVE008SB  
LAB FILE ID: REJ115 REJ116 REJ117  
DATE EXTRACTED: 05/04/1215:05 05/04/1215:05 05/04/1215:05 DATE COLLECTED: NA  
DATE ANALYZED: 05/04/1222:34 05/04/1222:53 05/04/1223:12 DATE RECEIVED: 05/04/12  
PREP. BATCH: SVE008S SVE008S SVE008S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	253	333	278	8*	333	ND	0*	200*	10-130	50
Acenaphthylene	288	333	317	9*	333	ND	0*	200*	20-130	50
Anthracene	273	333	282	3*	333	ND	0*	200*	20-130	50
Benzo (a) anthracene	293	333	285	-3*	333	ND	0*	200*	30-130	50
Benzo (a) pyrene	336	333	347	3*	333	ND	0*	200*	30-130	50
Benzo (b) fluoranthene	360	333	365	2*	333	ND	0*	200*	40-130	50
Benzo (k) fluoranthene	328	333	346	5*	333	ND	0*	200*	30-140	50
Benzo (g, h, i) perylene	358	333	364	2*	333	ND	0*	200*	30-140	50
Chrysene	276	333	269	-2*	333	ND	0*	200*	30-140	50
Dibenzo (a, h) anthracene	365	333	370	1*	333	ND	0*	200*	40-140	50
Fluoranthene	310	333	307	-1*	333	ND	0*	200*	30-130	50
Fluorene	285	333	300	5*	333	ND	0*	200*	20-130	50
Indeno (1, 2, 3-cd) pyrene	364	333	370	2*	333	ND	0*	200*	20-160	50
Naphthalene	239	333	267	8*	333	ND	0*	200*	10-130	50
Phenanthrene	270	333	280	3*	333	ND	0*	200*	20-130	50
2-Methylnaphthalene	261	333	290	9*	333	ND	0*	200*	30-150	50
1-Methylnaphthalene	260	333	290	9*	333	ND	0*	200*	30-150	50
N-Nitrosodimethylamine	240	333	286	14*	333	ND	0*	200*	30-150	50
Pyrene	294	333	291	-1*	333	ND	0*	200*	20-150	50
Azobenzene	254	333	311	17*	333	ND	0*	200*	30-150	50
Benzo (e) pyrene	323	333	321	-1*	333	ND	0*	200*	30-150	50
Biphenyl	236	333	256	6*	333	ND	0*	200*	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	292	88	333	250	75	40-130
2-Fluorobiphenyl	333	242	73	333	218	65	45-130
Terphenyl-d14	333	281	84	333	276	83	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E004  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE008SB SVE008SL SVE008SC  
LAB FILE ID: REJ117 REJ115 REJ116  
DATE EXTRACTED: 05/04/1215:05 05/04/1215:05 05/04/1215:05 DATE COLLECTED: NA  
DATE ANALYZED: 05/04/1223:12 05/04/1222:34 05/04/1222:53 DATE RECEIVED: 05/04/12  
PREP. BATCH: SVE008S SVE008S SVE008S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	253	76	333	278	84	9	10-130	50
Acenaphthylene	ND	333	288	87	333	317	95	9	20-130	50
Anthracene	ND	333	273	82	333	282	84	3	20-130	50
Benzo (a) anthracene	ND	333	293	88	333	285	85	3	30-130	50
Benzo (a) pyrene	ND	333	336	101	333	347	104	3	30-130	50
Benzo (b) fluoranthene	ND	333	360	108	333	365	109	1	40-130	50
Benzo (k) fluoranthene	ND	333	328	98	333	346	104	5	30-140	50
Benzo (g, h, i) perylene	ND	333	358	108	333	364	109	2	30-140	50
Chrysene	ND	333	276	83	333	269	81	3	30-140	50
Dibenzo (a, h) anthracene	ND	333	365	110	333	370	111	1	40-140	50
Fluoranthene	ND	333	310	93	333	307	92	1	30-130	50
Fluorene	ND	333	285	86	333	300	90	5	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	364	109	333	370	111	2	20-160	50
Naphthalene	ND	333	239	72	333	267	80	11	10-130	50
Phenanthrene	ND	333	270	81	333	280	84	4	20-130	50
2-Methylnaphthalene	ND	333	261	78	333	290	87	11	30-150	50
1-Methylnaphthalene	ND	333	260	78	333	290	87	11	30-150	50
N-Nitrosodimethylamine	ND	333	240	72	333	286	86	18	30-150	50
Pyrene	ND	333	294	88	333	291	87	1	20-150	50
Azobenzene	ND	333	254	76	333	311	93	20	30-150	50
Benzo (e) pyrene	ND	333	323	97	333	321	96	1	30-150	50
Biphenyl	ND	333	236	71	333	256	77	8	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	249	75	333	292	88	40-130
2-Fluorobiphenyl	333	232	70	333	242	73	45-130
Terphenyl-d14	333	304	91	333	281	84	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E004  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 4.2  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-722-SA5C-SB-0.0-0.5  
LAB SAMP ID: E004-05 E004-05M E004-05S  
LAB FILE ID: REJ140 REJ138 REJ139  
DATE EXTRACTED: 05/04/1215:05 05/04/1215:05 05/04/1215:05 DATE COLLECTED: 05/01/12  
DATE ANALYZED: 05/07/1214:42 05/07/1214:05 05/07/1214:24 DATE RECEIVED: 05/01/12  
PREP. BATCH: SVE008S SVE008S SVE008S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	348	177	51	348	154	44	13	10-130	50
Acenaphthylene	ND	348	199	57	348	175	50	13	20-130	50
Anthracene	ND	348	284	82	348	269	77	6	20-130	50
Benzo (a) anthracene	ND	348	356	102	348	374	108	5	30-130	50
Benzo (a) pyrene	ND	348	375	108	348	390	112	4	30-130	50
Benzo (b) fluoranthene	ND	348	414	119	348	411	118	1	30-130	50
Benzo (k) fluoranthene	ND	348	370	106	348	404	116	9	30-130	50
Benzo (g, h, i) perylene	ND	348	410	118	348	425	122	4	30-140	50
Chrysene	ND	348	335	96	348	352	101	5	20-130	50
Dibenzo (a, h) anthracene	ND	348	415	119	348	431	124	4	30-130	50
Fluoranthene	ND	348	362	104	348	378	109	4	30-150	50
Fluorene	ND	348	231	66	348	196	56	17	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	348	416	120	348	432	124	4	20-160	50
Naphthalene	ND	348	150	43	348	137	39	9	10-130	50
Phenanthrene	ND	348	287	83	348	271	78	6	20-130	50
2-Methylnaphthalene	ND	348	169	49	348	153	44	10	30-150	50
1-Methylnaphthalene	ND	348	169	49	348	153	44	10	30-150	50
N-Nitrosodimethylamine	ND	348	166	48	348	150	43	10	20-150	50
Pyrene	ND	348	346	99	348	364	105	5	10-160	50
Azobenzene	ND	348	233	67	348	184	53	23	30-150	50
Benzo (e) pyrene	ND	348	321	92	348	349	100	8	30-150	50
Biphenyl	ND	348	139	40	348	129	37	8	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	348	138	40	348	131	38*	40-130
2-Fluorobiphenyl	348	122	35*	348	116	33*	45-130
Terphenyl-d14	348	289	83	348	322	93	45-135

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/01/12
Project      : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.    : 12E004                           Date Extracted: 05/03/12 18:11
Sample ID:   SL-516-SA5C-SB-5.0                 Date Analyzed: 05/03/12 18:11
Lab Samp ID: E004-01                             Dilution Factor: 0.87
Lab File ID: EE03006A                           Matrix          : SOIL
Ext Btch ID: GME002S                             % Moisture     : 12.5
Calib. Ref.: EE03002A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.99	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.39	1.989	70.0 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/01/12
Project      : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.    : 12E004                           Date Extracted: 05/03/12 18:53
Sample ID:   SL-570-SA5C-SB-1.5                 Date Analyzed: 05/03/12 18:53
Lab Samp ID: E004-02                             Dilution Factor: 1.01
Lab File ID: EE03007A                           Matrix          : SOIL
Ext Btch ID: GME002S                             % Moisture     : 7.8
Calib. Ref.: EE03002A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.55
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.54	2.191	70.1 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/01/12
Project      : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.    : 12E004                           Date Extracted: 05/03/12 19:35
Sample ID:   SL-579-SA5C-SB-5.0                Date Analyzed: 05/03/12 19:35
Lab Samp ID: E004-03                            Dilution Factor: 1.01
Lab File ID: EE03008A                          Matrix          : SOIL
Ext Btch ID: GME002S                            % Moisture     : 9.3
Calib. Ref.: EE03002A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.56
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.61	2.227	72.4 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/01/12
Project     : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.   : 12E004                           Date Extracted: 05/03/12 20:17
Sample ID   : SL-580-SA5C-SB-5.0              Date Analyzed: 05/03/12 20:17
Lab Samp ID: E004-04                           Dilution Factor: 1.40
Lab File ID: EE03009A                          Matrix          : SOIL
Ext Btch ID: GME002S                            % Moisture     : 11.0
Calib. Ref.: EE03002A                          Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.6	0.79
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.31	3.146	73.6 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.   : 12E004                           Date Extracted: 05/03/12 16:06
Sample ID   : MBLK1S                           Date Analyzed: 05/03/12 16:06
Lab Samp ID: GME002SB                         Dilution Factor: 1
Lab File ID: EE03003A                        Matrix          : SOIL
Ext Btch ID: GME002S                          % Moisture      : NA
Calib. Ref.: EE03002A                        Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.44	2.000	71.9 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E004  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GME002SB GME002SL GME002SC  
LAB FILE ID: EE03003A EE03004A EE03005A  
DATE EXTRACTED: 05/03/1216:06 05/03/1216:47 05/03/1217:29 DATE COLLECTED: NA  
DATE ANALYZED: 05/03/1216:06 05/03/1216:47 05/03/1217:29 DATE RECEIVED: 05/03/12  
PREP. BATCH: GME002S GME002S GME002S  
CALIB. REF: EE03002A EE03002A EE03002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	21.7	87	25.0	20.0	80	8	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	1.81	90	2.00	1.68	84	60-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/01/12
Project      : SSFL PHASE 3                       Date Received: 05/01/12
Batch No.    : 12E004                             Date Extracted: 05/05/12 21:57
Sample ID:   TB-050112                            Date Analyzed: 05/05/12 21:57
Lab Samp ID: E004-07                               Dilution Factor: 1
Lab File ID: EE04051A                             Matrix          : WATER
Ext Btch ID: VG39E03                              % Moisture     : NA
Calib. Ref.: EE04043A                             Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)**	57	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	35.7	40.00	89.3 60-140

RL : Reporting Limit

\*\* : Discrete peak(s) only, not a Gasoline pattern.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/05/12
Batch No.    : 12E004                             Date Extracted: 05/05/12 17:45
Sample ID    : MBLK1W                             Date Analyzed: 05/05/12 17:45
Lab Samp ID  : VG39E03B                           Dilution Factor: 1
Lab File ID  : EE04045A                           Matrix          : WATER
Ext Btch ID  : VG39E03                             % Moisture     : NA
Calib. Ref.  : EE04043A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	33.3	40.00	83.3 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E004  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39E03B VG39E03L VG39E03C  
LAB FILE ID: EE04045A EE04046A EE04047A  
DATE EXTRACTED: 05/05/1217:45 05/05/1218:27 05/05/1219:09 DATE COLLECTED: NA  
DATE ANALYZED: 05/05/1217:45 05/05/1218:27 05/05/1219:09 DATE RECEIVED: 05/05/12  
PREP. BATCH: VG39E03 VG39E03 VG39E03  
CALIB. REF: EE04043A EE04043A EE04043A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	491	98	500	489	98	0	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	41.3	103	40.0	40.3	101	60-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/01/12
Project      : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.    : 12E004                           Date Extracted: 05/04/12 12:15
Sample ID:   SL-722-SA5C-SB-0.0-0.5           Date Analyzed: 05/05/12 03:54
Lab Samp ID: E004-05                           Dilution Factor: 1
Lab File ID: LE04059A                          Matrix          : SOIL
Ext Btch ID: DSE006S                           % Moisture     : 4.2
Calib. Ref.: LE04054A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.2	2.6
EFH(C12-C14)	ND	5.2	2.6
EFH(C15-C20)	ND	5.2	2.6
EFH(C21-C30)	ND	5.2	2.6
EFH(C30-C40)	ND	10	5.2
TOTAL EFH(C8-C40)	ND	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.0	104.4	77.6	50-150
HEXACOSANE	23.5	26.10	90.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/01/12
Project      : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.    : 12E004                           Date Extracted: 05/04/12 12:15
Sample ID    : SL-1022-SA5C-SB-0.0-0.5         Date Analyzed: 05/05/12 04:45
Lab Samp ID  : E004-06                           Dilution Factor: 1
Lab File ID  : LE04062A                         Matrix          : SOIL
Ext Btch ID  : DSE006S                          % Moisture     : 4.6
Calib. Ref.  : LE04054A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.2	2.6
EFH(C12-C14)	ND	5.2	2.6
EFH(C15-C20)	ND	5.2	2.6
EFH(C21-C30)	ND	5.2	2.6
EFH(C30-C40)	ND	10	5.2
TOTAL EFH(C8-C40)	ND	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.4	104.8	75.8	50-150
HEXACOSANE	23.2	26.21	88.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/04/12
Batch No.    : 12E004                           Date Extracted: 05/04/12 12:15
Sample ID    : MBLK1S                           Date Analyzed: 05/04/12 21:58
Lab Samp ID  : DSE006SB                         Dilution Factor: 1
Lab File ID  : LE04038A                        Matrix          : SOIL
Ext Btch ID  : DSE006S                          % Moisture     : NA
Calib. Ref.  : LE04028A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.7	100.0	74.7	50-150
HEXACOSANE	21.4	25.00	85.6	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E004  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE006SB DSE006SL DSE006SC  
LAB FILE ID: LE04038A LE04036A LE04037A  
DATE EXTRACTED: 05/04/1212:15 05/04/1212:15 05/04/1212:15 DATE COLLECTED: NA  
DATE ANALYZED: 05/04/1221:58 05/04/1221:24 05/04/1221:41 DATE RECEIVED: 05/04/12  
PREP. BATCH: DSE006S DSE006S DSE006S  
CALIB. REF: LE04028A LE04028A LE04028A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	473	95	500	478	96	1	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	78.5	78	100	80.2	80	50-150
Hexacosane	25.0	22.5	90	25.0	22.0	88	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E004  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 4.2  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-722-SA5C-SB-0.0-0.5  
LAB SAMP ID: E004-05 E004-05M E004-05S  
LAB FILE ID: LE04059A LE04060A LE04061A  
DATE EXTRACTED: 05/04/1212:15 05/04/1212:15 05/04/1212:15 DATE COLLECTED: 05/01/12  
DATE ANALYZED: 05/05/1203:54 05/05/1204:11 05/05/1204:28 DATE RECEIVED: 05/01/12  
PREP. BATCH: DSE006S DSE006S DSE006S  
CALIB. REF: LE04054A LE04054A LE04054A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	522	495	95	522	474	91	4	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	104	83.3	80	104	82.2	79	50-150
Hexacosane	26.1	23.2	89	26.1	22.8	87	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/01/12
Project      : SSFL PHASE 3                     Date Received: 05/01/12
Batch No.    : 12E004                           Date Extracted: 05/08/12 11:37
Sample ID    : SL-722-SA5C-SB-0.0-0.5          Date Analyzed: 05/12/12 00:47
Lab Samp ID  : E004-05                           Dilution Factor: 1
Lab File ID  : SE11015A                          Matrix          : SOIL
Ext Btch ID  : CPE009S                           % Moisture     : 4.2
Calib. Ref.  : SE11002A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.44)   15.36	13.91	(111)   110	45-120
TETRACHLORO-M-XYLENE	(14.06)   12.67	13.91	(101)   91.0	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/01/12
Project    : SSFL PHASE 3                       Date Received: 05/01/12
Batch No.  : 12E004                             Date Extracted: 05/08/12 11:37
Sample ID  : SL-1022-SA5C-SB-0.0-0.5          Date Analyzed: 05/12/12 02:30
Lab Samp ID: E004-06                           Dilution Factor: 1
Lab File ID: SE11018A                          Matrix          : SOIL
Ext Btch ID: CPE009S                           % Moisture     : 4.6
Calib. Ref.: SE11002A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.45)   14.45	13.97	(103)   103	45-120
TETRACHLORO-M-XYLENE	(13.31)   12.63	13.97	(95.3)   90.4	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E004                           Date Extracted: 05/08/12 11:37
Sample ID    : MBLK1S                           Date Analyzed: 05/11/12 23:05
Lab Samp ID  : 60E009SB                         Dilution Factor: 1
Lab File ID  : SE11012A                        Matrix          : SOIL
Ext Btch ID  : CPE009S                          % Moisture     : NA
Calib. Ref.  : SE11002A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.05)   14.05	13.33	105   (105)	45-120
TETRACHLORO-M-XYLENE	(13.24)   12.98	13.33	(99.3)   97.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E004  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E009SB 60E009SL 60E009SC  
LAB FILE ID: SE11012A SE11013A SE11014A  
DATE EXTRACTED: 05/08/1211:37 05/08/1211:37 05/08/1211:37 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1223:05 05/11/1223:39 05/12/1200:13 DATE RECEIVED: 05/08/12  
PREP. BATCH: CPE009S CPE009S CPE009S  
CALIB. REF: SE11002A SE11002A SE11002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	167   (176)	100   (106)	167	165   (178)	99   (107)	1   (1)	50-130	50
Aroclor 1260	(ND)   ND	167	(182)   181	(109)   109	167	(184)   184	(110)   110	(1)   2	60-150	50
Aroclor 5460	(ND)   ND	83.3	(109)   101	(131)   121	83.3	(108)   100	(130)   120	(1)   1	50-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	14.42   (14.48)	108   (109)	13.33	14.43   (14.45)	108   (108)	45-120
Tetrachloro-m-xylene	13.33	(13.11)   12.86	(98.3)   96.5	13.33	(12.92)   12.75	(96.9)   95.6	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E004  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 4.2  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-722-SA5C-SB-0.0-0.5  
LAB SAMP ID: E004-05 E004-05M E004-05S  
LAB FILE ID: SE11015A SE11016A SE11017A  
DATE EXTRACTED: 05/08/1211:37 05/08/1211:37 05/08/1211:37 DATE COLLECTED: 05/01/12  
DATE ANALYZED: 05/12/1200:47 05/12/1201:21 05/12/1201:56 DATE RECEIVED: 05/01/12  
PREP. BATCH: CPE009S CPE009S CPE009S  
CALIB. REF: SE11002A SE11002A SE11002A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	174	165   (172)	95   (99)	174	164   (173)	94   (99)	1   (1)	20-160	50
Aroclor 1260	(ND)   ND	174	(178)   176	(102)   101	174	(181)   177	(104)   102	(2)   1	20-160	50
Aroclor 5460	(ND)   ND	87.0	(113)   103	(130)   118	87.0	(111)   101	(128)   116	(2)   2	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.91	(14.34)   14.33	(103)   103	13.91	13.99   (14.01)	101   (101)	45-120
Tetrachloro-m-xylene	13.91	(13.56)   13.01	(97.4)   93.5	13.91	(13.08)   12.64	(94.0)   90.8	10-160

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/01/12
Project      : SSFL PHASE 3                     Date Received: 05/01/12
SDG NO.     : 12E004                            Date Extracted: 05/07/12 10:15
Sample ID   : SL-722-SA5C-SB-0.0-0.5          Date Analyzed: 05/10/12 17:19
Lab Samp ID : E004-05                           Dilution Factor: 1.00
Lab File ID : 98E06042                         Matrix          : SOIL
Ext Btch ID : IME008S                          % Moisture     : 4.2
Calib. Ref. : 98E06037                         Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	5270	104	12.5
Antimony	0.141J	0.522	0.104
Arsenic	2.41	0.522	0.209
Barium	38.5	0.522	0.209
Beryllium	0.136J	0.522	0.0522
Boron	ND	5.22	2.61
Cadmium	0.173J	0.522	0.0522
Calcium	5390	20.9	10.4
Chromium	13.8	0.522	0.209
Cobalt	2.55	0.522	0.0522
Copper	3.82	0.522	0.209
Iron	7400	104	10.4
Lead	1.54	0.522	0.104
Magnesium	1590	10.4	5.22
Manganese	108	0.522	0.261
Molybdenum	0.845	0.522	0.0522
Nickel	7.83	0.522	0.209
Potassium	652	104	31.3
Selenium	0.387J	0.522	0.209
Silver	ND	0.522	0.0522
Sodium	67.1J	104	52.2
Strontium	30.1	0.522	0.261
Thallium	ND	0.418	0.0522
Tin	ND	10.4	5.22
Titanium	274	1.04	0.522
Vanadium	16.8	0.522	0.0522
Zinc	14.1	5.22	1.57
Lithium	2.88	2.09	1.04
Phosphorus	386	12.5	6.26
Zirconium	3.08J	5.22	2.61

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/01/12
Project    : SSFL PHASE 3                     Date Received: 05/01/12
SDG NO.    : 12E004                           Date Extracted: 05/07/12 10:15
Sample ID  : SL-1022-SA5C-SB-0.0-0.5         Date Analyzed: 05/10/12 17:29
Lab Samp ID: E004-06                           Dilution Factor: 1.00
Lab File ID: 98E06044                          Matrix          : SOIL
Ext Btch ID: IME008S                            % Moisture     : 4.6
Calib. Ref.: 98E06037                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	5160	105	12.6
Antimony	0.129J	0.524	0.105
Arsenic	2.36	0.524	0.210
Barium	40.3	0.524	0.210
Beryllium	0.138J	0.524	0.0524
Boron	ND	5.24	2.62
Cadmium	0.188J	0.524	0.0524
Calcium	4580	21.0	10.5
Chromium	15.0	0.524	0.210
Cobalt	2.66	0.524	0.0524
Copper	3.96	0.524	0.210
Iron	7550	105	10.5
Lead	1.49	0.524	0.105
Magnesium	1600	10.5	5.24
Manganese	107	0.524	0.262
Molybdenum	0.954	0.524	0.0524
Nickel	8.89	0.524	0.210
Potassium	721	105	31.4
Selenium	0.337J	0.524	0.210
Silver	ND	0.524	0.0524
Sodium	66.7J	105	52.4
Strontium	32.5	0.524	0.262
Thallium	ND	0.419	0.0524
Tin	ND	10.5	5.24
Titanium	270	1.05	0.524
Vanadium	16.5	0.524	0.0524
Zinc	15.0	5.24	1.57
Lithium	2.96	2.10	1.05
Phosphorus	409	12.6	6.29
Zirconium	3.01J	5.24	2.62

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/07/12
SDG NO.     : 12E004                           Date Extracted: 05/07/12 10:15
Sample ID   : MBLK1S                           Date Analyzed: 05/10/12 16:35
Lab Samp ID : IME008SB                         Dilution Factor: 1
Lab File ID : 98E06033                        Matrix          : SOIL
Ext Btch ID : IME008S                          % Moisture     : NA
Calib. Ref. : 98E06030                        Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E004  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME008SB IME008SL IME008SC  
LAB FILE ID: 98E06033 98E06034 98E06035  
DATIME EXTRACTD: 05/07/1210:15 05/07/1210:15 05/07/1210:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/10/1216:35 05/10/1216:40 05/10/1216:44 DATE RECEIVED: 05/07/12  
PREP. BATCH: IME008S IME008S IME008S  
CALIB. REF: 98E06030 98E06030 98E06030

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2900	116	2500	2790	112	4	80-120	20
Antimony	ND	25.0	24.8	99	25.0	23.9	95	4	80-120	20
Arsenic	ND	25.0	23.9	96	25.0	23.2	93	3	80-120	20
Barium	ND	25.0	25.7	103	25.0	24.9	100	3	80-120	20
Beryllium	ND	25.0	22.2	89	25.0	21.7	87	2	80-120	20
Boron	ND	25.0	24.8	99	25.0	24.4	98	2	80-120	20
Cadmium	ND	25.0	25.2	101	25.0	24.3	97	3	80-120	20
Calcium	ND	2500	2770	111	2500	2660	106	4	80-120	20
Chromium	ND	25.0	25.9	103	25.0	24.8	99	4	80-120	20
Cobalt	ND	25.0	25.2	101	25.0	24.1	97	4	80-120	20
Copper	ND	25.0	25.6	102	25.0	24.4	98	5	80-120	20
Iron	ND	2500	2730	109	2500	2650	106	3	80-120	20
Lead	ND	25.0	26.0	104	25.0	24.9	99	4	80-120	20
Magnesium	ND	2500	2970	119	2500	2840	114	4	80-120	20
Manganese	ND	25.0	26.0	104	25.0	24.9	100	4	80-120	20
Molybdenum	ND	25.0	25.2	101	25.0	24.4	98	3	80-120	20
Nickel	ND	25.0	25.3	101	25.0	24.3	97	4	80-120	20
Potassium	ND	2500	2730	109	2500	2630	105	4	80-120	20
Selenium	ND	25.0	25.3	101	25.0	24.7	99	2	80-120	20
Silver	ND	25.0	26.1	104	25.0	25.3	101	3	80-120	20
Sodium	ND	2500	2860	114	2500	2790	111	3	80-120	20
Strontium	ND	25.0	27.1	108	25.0	26.4	106	3	80-120	20
Thallium	ND	25.0	25.8	103	25.0	24.6	99	5	80-120	20
Tin	ND	25.0	28.6	114	25.0	27.7	111	3	80-120	20
Titanium	ND	25.0	26.1	104	25.0	25.1	101	4	80-120	20
Vanadium	ND	25.0	25.7	103	25.0	24.8	99	4	80-120	20
Zinc	ND	50.0	49.8	100	50.0	47.9	96	4	80-120	20
Lithium	ND	25.0	25.7	103	25.0	24.9	100	3	80-120	20
Phosphorus	ND	250	251	100	250	245	98	2	80-120	20
Zirconium	ND	25.0	26.0	104	25.0	25.4	102	2	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E004  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 4.2  
DILTN FACTR: 1.00 1.00 1.00  
SAMPLE ID: SL-722-SA5C-SB-0.0-0.5  
CONTROL NO.: E004-05 E004-05M E004-05S  
LAB FILE ID: 98E06042 98E06039 98E06040  
DATIME EXTRACTD: 05/07/1210:15 05/07/1210:15 05/07/1210:15 DATE COLLECTED: 05/01/12  
DATIME ANALYZD: 05/10/1217:19 05/10/1217:06 05/10/1217:11 DATE RECEIVED: 05/01/12  
PREP. BATCH: IME008S IME008S IME008S  
CALIB. REF: 98E06037 98E06037 98E06037

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	5270	2610	7730	94	2610	8580	127*	10	75-125	20
Antimony	0.141J	26.1	22.1	84	26.1	23.1	88	4	75-125	20
Arsenic	2.41	26.1	26.1	91	26.1	27.1	95	4	75-125	20
Barium	38.5	26.1	64.5	100	26.1	66.4	107	3	75-125	20
Beryllium	0.136J	26.1	23.9	91	26.1	24.0	91	0	75-125	20
Boron	ND	26.1	27.1	104	26.1	28.0	107	3	75-125	20
Cadmium	0.173J	26.1	25.8	98	26.1	26.1	99	1	75-125	20
Calcium	5390	2610	7580	84	2610	7510	81	1	75-125	20
Chromium	13.8	26.1	38.8	96	26.1	39.9	100	3	75-125	20
Cobalt	2.55	26.1	27.0	94	26.1	27.4	95	1	75-125	20
Copper	3.82	26.1	27.8	92	26.1	28.9	96	4	75-125	20
Iron	7400	2610	9910	96	2610	11300	149*	13	75-125	20
Lead	1.54	26.1	27.3	99	26.1	28.1	102	3	75-125	20
Magnesium	1590	2610	4170	99	2610	4380	107	5	75-125	20
Manganese	108	26.1	126	67*	26.1	138	116	10	75-125	20
Molybdenum	0.845	26.1	25.9	96	26.1	26.6	99	3	75-125	20
Nickel	7.83	26.1	32.1	93	26.1	32.7	95	2	75-125	20
Potassium	652	2610	3280	101	2610	3410	106	4	75-125	20
Selenium	0.387J	26.1	25.5	96	26.1	25.8	97	1	75-125	20
Silver	ND	26.1	26.2	100	26.1	26.6	102	2	75-125	20
Sodium	67.1J	2610	2870	107	2610	2850	107	0	75-125	20
Strontium	30.1	26.1	56.8	103	26.1	56.1	100	1	75-125	20
Thallium	ND	26.1	25.9	99	26.1	26.4	101	2	75-125	20
Tin	ND	26.1	29.1	112	26.1	30.0	115	3	75-125	20
Titanium	274	26.1	244	-113*	26.1	295	81	19	75-125	20
Vanadium	16.8	26.1	40.5	91	26.1	44.0	104	8	75-125	20
Zinc	14.1	52.2	63.2	94	52.2	64.6	97	2	75-125	20
Lithium	2.88	26.1	29.1	101	26.1	29.4	102	1	75-125	20
Phosphorus	386	261	620	90	261	676	111	9	75-125	20
Zirconium	3.08J	26.1	28.5	97	26.1	29.9	103	5	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E004  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 4.2  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-722-SA5C-SB-0.0-0.5  
CONTROL NO.: E004-05 E004-05A  
LAB FILE ID: 98E06042 98E06041  
DATIME EXTRACTD: 05/07/1210:15 05/07/1210:15 DATE COLLECTED: 05/01/12  
DATIME ANALYZD: 05/10/1217:19 05/10/1217:15 DATE RECEIVED: 05/01/12  
PREP. BATCH: IME008S IME008S  
CALIB. REF: 98E06037 98E06037

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	5270	2610	7950	103	75-125
Antimony	0.141J	26.1	25.2	96	75-125
Arsenic	2.41	26.1	26.2	91	75-125
Barium	38.5	26.1	64.9	101	75-125
Beryllium	0.136J	26.1	23.5	90	75-125
Boron	ND	26.1	27.4	105	75-125
Cadmium	0.173J	26.1	25.4	97	75-125
Calcium	5390	2610	8090	103	75-125
Chromium	13.8	26.1	38.5	94	75-125
Cobalt	2.55	26.1	26.4	91	75-125
Copper	3.82	26.1	27.7	91	75-125
Iron	7400	2610	9990	99	75-125
Lead	1.54	26.1	27.5	100	75-125
Magnesium	1590	2610	4280	103	75-125
Manganese	108	26.1	132	91	75-125
Molybdenum	0.845	26.1	26.3	97	75-125
Nickel	7.83	26.1	31.5	91	75-125
Potassium	652	2610	3410	106	75-125
Selenium	0.387J	26.1	25.5	96	75-125
Silver	ND	26.1	26.0	100	75-125
Sodium	67.1J	2610	2820	106	75-125
Strontium	30.1	26.1	57.2	104	75-125
Thallium	ND	26.1	26.0	100	75-125
Tin	ND	26.1	28.6	110	75-125
Titanium	274	26.1	303	111	75-125
Vanadium	16.8	26.1	41.5	95	75-125
Zinc	14.1	52.2	62.0	92	75-125
Lithium	2.88	26.1	29.3	101	75-125
Phosphorus	386	261	665	107	75-125
Zirconium	3.08J	26.1	29.9	103	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E004  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 4.2  
 DILUTION FACTOR: 1.00 5.00  
 SAMPLE ID: SL-722-SA5C-SB SL-722-SA5C-SB  
 EMAX SAMP ID: E004-05 E004-05J  
 LAB FILE ID: 98E06042 98E06043  
 DATE EXTRACTED: 05/07/1210:15 05/07/1210:15 DATE COLLECTED: 05/01/12  
 DATE ANALYZED: 05/10/1217:19 05/10/1217:24 DATE RECEIVED: 05/01/12  
 PREP. BATCH: IME008S IME008S  
 CALIB. REF: 98E06037 98E06037

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	5270	5270	0	10
Antimony	0.141J	ND	NA	10
Arsenic	2.41	2.33J	NA	10
Barium	38.5	38.1	1	10
Beryllium	0.136J	ND	NA	10
Boron	ND	ND	0	10
Cadmium	0.173J	ND	NA	10
Calcium	5390	5450	1	10
Chromium	13.8	14.0	1	10
Cobalt	2.55	2.69	6	10
Copper	3.82	4.13	8	10
Iron	7400	7410	0	10
Lead	1.54	1.56J	NA	10
Magnesium	1590	1600	1	10
Manganese	108	113	5	10
Molybdenum	0.845	0.857J	NA	10
Nickel	7.83	7.99	2	10
Potassium	652	661	1	10
Selenium	0.387J	ND	NA	10
Silver	ND	ND	0	10
Sodium	67.1J	ND	NA	10
Strontium	30.1	28.9	4	10
Thallium	ND	ND	0	10
Tin	ND	ND	0	10
Titanium	274	270	1	10
Vanadium	16.8	17.1	2	10
Zinc	14.1	16.9J	NA	10
Lithium	2.88	ND	NA	10
Phosphorus	386	391	1	10
Zirconium	3.08J	ND	NA	10

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E004  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-722-SA5C-SB-0.0-0.5	E004-05	8.81	1	NA	NA	NA	05/02/1212:01	05/02/1212:01	12PHE002S01	PHE002S	PHE002S	05/01/1213:25	05/01/12
SL-722-SA5C-SB-0.0-0.5DUPE004-05D	E004-05	8.85	1	NA	NA	NA	05/02/1212:02	05/02/1212:01	12PHE002S02	PHE002S	PHE002S	05/01/1213:25	05/01/12
SL-1022-SA5C-SB-0.0-0.5	E004-06	8.74	1	NA	NA	NA	05/02/1212:05	05/02/1212:01	12PHE002S03	PHE002S	PHE002S	05/01/1213:30	05/01/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E004	DATE RECEIVED:	05/01/12
SAMPLE ID:	SL-722-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	05/02/1212:01
CONTROL NO.:	E004-05D	DATE ANALYZED:	05/02/1212:02

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.81	8.85	-0.04	0.10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E004

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE012SB	ND	1	NA	0.100	0.0500	05/14/1217:57	05/14/1212:45	M47E011071	M47E011068	HGE012S	NA	05/14/12
LCS1S	HGE012SL	0.845	1	NA	0.100	0.0500	05/14/1218:00	05/14/1212:45	M47E011072	M47E011068	HGE012S	NA	05/14/12
LCD1S	HGE012SC	0.845	1	NA	0.100	0.0500	05/14/1218:02	05/14/1212:45	M47E011073	M47E011068	HGE012S	NA	05/14/12
SL-1022-SA5C-SB-0.0-0.5AS	E004-06A	0.900	0.995	4.6	0.104	0.0521	05/14/1218:04	05/14/1212:45	M47E011074	M47E011068	HGE012S	05/01/12	05/01/12
SL-1022-SA5C-SB-0.0-0.5	E004-06	ND	0.995	4.6	0.104	0.0521	05/14/1218:06	05/14/1212:45	M47E011075	M47E011068	HGE012S	05/01/12	05/01/12
SL-1022-SA5C-SB-0.0-0.5DL	E004-06J	ND	4.98	4.6	0.522	0.261	05/14/1218:09	05/14/1212:45	M47E011076	M47E011068	HGE012S	05/01/12	05/01/12
SL-1022-SA5C-SB-0.0-0.5MS	E004-06M	0.935	0.997	4.6	0.105	0.0523	05/14/1218:11	05/14/1212:45	M47E011077	M47E011068	HGE012S	05/01/12	05/01/12
SL-1022-SA5C-SB-0.0-0.5MSD	E004-06S	0.926	0.985	4.6	0.103	0.0516	05/14/1218:13	05/14/1212:45	M47E011078	M47E011068	HGE012S	05/01/12	05/01/12
MBLK2S	HGE015SB	ND	1	NA	0.100	0.0500	05/17/1214:33	05/17/1211:15	M47E014010	M47E014008	HGE015S	NA	05/17/12
LCS2S	HGE015SL	0.867	1	NA	0.100	0.0500	05/17/1214:35	05/17/1211:15	M47E014011	M47E014008	HGE015S	NA	05/17/12
LCD2S	HGE015SC	0.862	1	NA	0.100	0.0500	05/17/1214:37	05/17/1211:15	M47E014012	M47E014008	HGE015S	NA	05/17/12
SL-722-SA5C-SB-0.0-0.5AS	E004-05A	0.908	0.987	4.2	0.103	0.0515	05/17/1214:39	05/17/1211:15	M47E014013	M47E014008	HGE015S	05/01/12	05/01/12
SL-722-SA5C-SB-0.0-0.5	E004-05	ND	0.987	4.2	0.103	0.0515	05/17/1214:41	05/17/1211:15	M47E014014	M47E014008	HGE015S	05/01/12	05/01/12
SL-722-SA5C-SB-0.0-0.5DL	E004-05J	ND	4.93	4.2	0.515	0.257	05/17/1214:43	05/17/1211:15	M47E014015	M47E014008	HGE015S	05/01/12	05/01/12
SL-722-SA5C-SB-0.0-0.5MS	E004-05M	0.904	0.988	4.2	0.103	0.0516	05/17/1214:45	05/17/1211:15	M47E014016	M47E014008	HGE015S	05/01/12	05/01/12
SL-722-SA5C-SB-0.0-0.5MSD	E004-05S	0.910	0.993	4.2	0.104	0.0518	05/17/1214:48	05/17/1211:15	M47E014017	M47E014008	HGE015S	05/01/12	05/01/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E004  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE012SB HGE012SL HGE012SC  
LAB FILE ID: M47E011071 M47E011072 M47E011073  
DATIME EXTRCTD: 05/14/1212:45 05/14/1212:45 05/14/1212:45 DATE COLLECTED: NA  
DATIME ANALYZD: 05/14/1217:57 05/14/1218:00 05/14/1218:02 DATE RECEIVED: 05/14/12  
PREP. BATCH: HGE012S HGE012S HGE012S  
CALIB. REF: M47E011068 M47E011068 M47E011068

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.845	101	.833	.845	101	0	85-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E004  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK2S  
CONTROL NO.: HGE015SB HGE015SL HGE015SC  
LAB FILE ID: M47E014010 M47E014011 M47E014012  
DATIME EXTRCTD: 05/17/1211:15 05/17/1211:15 05/17/1211:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/17/1214:33 05/17/1214:35 05/17/1214:37 DATE RECEIVED: 05/17/12  
PREP. BATCH: HGE015S HGE015S HGE015S  
CALIB. REF: M47E014008 M47E014008 M47E014008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.867	104	.833	.862	103	1	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E004  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 4.2  
DILTN FACTR: 0.987 0.988 0.993  
SAMPLE ID: SL-722-SA5C-SB-0.0-0.5  
CONTROL NO.: E004-05 E004-05M E004-05S  
LAB FILE ID: M47E014014 M47E014016 M47E014017  
DATIME EXTRCTD: 05/17/1211:15 05/17/1211:15 05/17/1211:15 DATE COLLECTED: 05/01/12  
DATIME ANALYZD: 05/17/1214:41 05/17/1214:45 05/17/1214:48 DATE RECEIVED: 05/01/12  
PREP. BATCH: HGE015S HGE015S HGE015S  
CALIB. REF: M47E014008 M47E014008 M47E014008

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.859	.904	105	.863	.91	105	0	65-135	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E004  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 4.6  
DILTN FACTR: 0.995 0.997 0.985  
SAMPLE ID: SL-1022-SA5C-SB-0.0-0.5  
CONTROL NO.: E004-06 E004-06M E004-06S  
LAB FILE ID: M47E011075 M47E011077 M47E011078  
DATIME EXTRCTD: 05/14/1212:45 05/14/1212:45 05/14/1212:45 DATE COLLECTED: 05/01/12  
DATIME ANALYZD: 05/14/1218:06 05/14/1218:11 05/14/1218:13 DATE RECEIVED: 05/01/12  
PREP. BATCH: HGE012S HGE012S HGE012S  
CALIB. REF: M47E011068 M47E011068 M47E011068

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.871	.935	107	.86	.926	108	1	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E004  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 4.2  
DILTN FACTR: 0.987 0.987  
SAMPLE ID: SL-722-SA5C-SB-0.0-0.5  
CONTROL NO.: E004-05 E004-05A  
LAB FILE ID: M47E014014 M47E014013  
DATIME EXTRCTD: 05/17/1211:15 05/17/1211:15 DATE COLLECTED: 05/01/12  
DATIME ANALYZD: 05/17/1214:41 05/17/1214:39 DATE RECEIVED: 05/01/12  
PREP. BATCH: HGE015S HGE015S  
CALIB. REF: M47E014008 M47E014008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.858	.908	106	85-115

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E004  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 4.6  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-1022-SA5C-SB-0.0-0.5  
CONTROL NO.: E004-06 E004-06A  
LAB FILE ID: M47E011075 M47E011074  
DATIME EXTRCTD: 05/14/1212:45 05/14/1212:45 DATE COLLECTED: 05/01/12  
DATIME ANALYZD: 05/14/1218:06 05/14/1218:04 DATE RECEIVED: 05/01/12  
PREP. BATCH: HGE012S HGE012S  
CALIB. REF: M47E011068 M47E011068

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.869	.9	104	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E004  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	4.2
DILUTION FACTOR:	0.987	4.93		
SAMPLE ID:	SL-722-SA5C-SB-0.0-	SL-722-SA5C-SB-0.0-		
EMAX SAMP ID:	E004-05	E004-05J		
LAB FILE ID:	M47E014014	M47E014015		
DATE EXTRACTED:	05/17/1211:15	05/17/1211:15	DATE COLLECTED:	05/01/12
DATE ANALYZED:	05/17/1214:41	05/17/1214:43	DATE RECEIVED:	05/01/12
PREP. BATCH:	HGE015S	HGE015S		
CALIB. REF:	M47E014008	M47E014008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E004  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 4.6  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-1022-SA5C-SB-0.0 SL-1022-SA5C-SB-0.0  
 EMAX SAMP ID: E004-06 E004-06J  
 LAB FILE ID: M47E011075 M47E011076  
 DATE EXTRACTED: 05/14/1212:45 05/14/1212:45 DATE COLLECTED: 05/01/12  
 DATE ANALYZED: 05/14/1218:06 05/14/1218:09 DATE RECEIVED: 05/01/12  
 PREP. BATCH: HGE012S HGE012S  
 CALIB. REF: M47E011068 M47E011068

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/07/12 10:45
Sample ID    : SL-587-SA5C-SB-0.0-0.5          Date Analyzed: 05/07/12 21:57
Lab Samp ID  : E018-01                          Dilution Factor: 1
Lab File ID  : LE07024A                         Matrix          : SOIL
Ext Btch ID  : DSE007S                          % Moisture     : 12.3
Calib. Ref.  : LE07016A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	16	5.7	2.9
EFH(C30-C40)	30	11	5.7
TOTAL EFH(C8-C40)	46	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	87.0	114.0	76.3	50-150
HEXACOSANE	25.3	28.51	88.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/07/12 10:45
Sample ID    : SL-604-SA5C-SB-0.0-0.5          Date Analyzed: 05/07/12 22:48
Lab Samp ID  : E018-02                          Dilution Factor: 1
Lab File ID  : LE07027A                        Matrix          : SOIL
Ext Btch ID  : DSE007S                          % Moisture     : 11.0
Calib. Ref.  : LE07016A                        Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	170	5.6	2.8
EFH(C30-C40)	190	11	5.6
TOTAL EFH(C8-C40)	360	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	85.8	112.4	76.4	50-150
HEXACOSANE	28.9	28.09	103	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/07/12 10:45
Sample ID    : SL-585-SA5C-SB-0.0-0.5          Date Analyzed: 05/07/12 22:14
Lab Samp ID  : E018-07                          Dilution Factor: 1
Lab File ID  : LE07025A                         Matrix          : SOIL
Ext Btch ID  : DSE007S                          % Moisture     : 6.6
Calib. Ref.  : LE07016A                         Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	16	5.4	2.7
EFH(C30-C40)	36	11	5.4
TOTAL EFH(C8-C40)	52	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.6	107.1	76.2	50-150
HEXACOSANE	23.9	26.77	89.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/07/12 10:45
Sample ID    : SL-599-SA5C-SB-0.0-0.5          Date Analyzed: 05/07/12 22:31
Lab Samp ID  : E018-08                           Dilution Factor: 1
Lab File ID  : LE07026A                          Matrix          : SOIL
Ext Btch ID  : DSE007S                            % Moisture     : 7.6
Calib. Ref.  : LE07016A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	21	5.4	2.7
EFH(C30-C40)	45	11	5.4
TOTAL EFH(C8-C40)	66	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	80.1	108.2	74.0	50-150
HEXACOSANE	23.2	27.06	85.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/07/12 10:45
Sample ID    : SL-600-SA5C-SB-0.0-0.5          Date Analyzed: 05/07/12 21:40
Lab Samp ID  : E018-09                           Dilution Factor: 1
Lab File ID  : LE07023A                          Matrix          : SOIL
Ext Btch ID  : DSE007S                           % Moisture     : 16.6
Calib. Ref.  : LE07016A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	6.0	3.0
EFH(C12-C14)	ND	6.0	3.0
EFH(C15-C20)	ND	6.0	3.0
EFH(C21-C30)	26	6.0	3.0
EFH(C30-C40)	34	12	6.0
TOTAL EFH(C8-C40)	60	6.0	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	95.0	119.9	79.2	50-150
HEXACOSANE	26.9	29.98	89.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E018                           Date Extracted: 05/07/12 10:45
Sample ID    : MBLK1S                           Date Analyzed: 05/07/12 16:51
Lab Samp ID  : DSE007SB                         Dilution Factor: 1
Lab File ID  : LE07006A                        Matrix          : SOIL
Ext Btch ID  : DSE007S                          % Moisture      : NA
Calib. Ref.  : LE07004A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.2	100.0	79.2	50-150
HEXACOSANE	21.9	25.00	87.5	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E018  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE007SB DSE007SL DSE007SC  
LAB FILE ID: LE07006A LE07007A LE07008A  
DATE EXTRACTED: 05/07/1210:45 05/07/1210:45 05/07/1210:45 DATE COLLECTED: NA  
DATE ANALYZED: 05/07/1216:51 05/07/1217:08 05/07/1217:25 DATE RECEIVED: 05/07/12  
PREP. BATCH: DSE007S DSE007S DSE007S  
CALIB. REF: LE07004A LE07004A LE07004A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	485	97	500	487	97	1	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	84.1	84	100	81.1	81	50-150
Hexacosane	25.0	22.0	88	25.0	21.1	85	50-150

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/10/1215:51
Sample ID:   SL-587-SA5C-SB-0.0-0.5            Date Analyzed: 05/11/12 22:02
Lab Samp ID: E018-01                           Dilution Factor: 3
Lab File ID: REJ309                             Matrix          : SOIL
Ext Btch ID: SVE020S                           % Moisture     : 12.3
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	34	8.6
ACENAPHTHYLENE	ND	34	8.6
ANTHRACENE	ND	34	8.6
BENZO (A) ANTHRACENE	ND	34	8.6
BENZO (A) PYRENE	ND	34	8.6
BENZO (B) FLUORANTHENE	ND	34	8.6
BENZO (K) FLUORANTHENE	ND	34	8.6
BENZO (G, H, I) PERYLENE	ND	34	8.6
CHRYSENE	ND	34	8.6
DIBENZO (A, H) ANTHRACENE	ND	34	8.6
FLUORANTHENE	ND	34	8.6
FLUORENE	ND	34	8.6
INDENO (1, 2, 3-CD) PYRENE	ND	34	8.6
NAPHTHALENE	ND	34	8.6
PHENANTHRENE	ND	34	8.6
2-METHYLNAPHTHALENE	ND	34	8.6
1-METHYLNAPHTHALENE	ND	34	8.6
N-NITROSODIMETHYLAMINE	ND	34	8.6
PYRENE	ND	34	8.6
AZOBENZENE	ND	17	8.6
BENZO (E) PYRENE	ND	17	8.6
BIPHENYL	ND	17	8.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	287	380.0	75.5	40-130
2-FLUOROBIPHENYL	245	380.0	64.5	45-130
TERPHENYL-D14	280	380.0	73.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/10/1215:51
Sample ID:   SL-604-SA5C-SB-0.0-0.5            Date Analyzed: 05/11/12 22:21
Lab Samp ID: E018-02                           Dilution Factor: 3
Lab File ID: REJ310                             Matrix          : SOIL
Ext Btch ID: SVE020S                            % Moisture     : 11.0
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	34	8.4
ACENAPHTHYLENE	ND	34	8.4
ANTHRACENE	ND	34	8.4
BENZO (A) ANTHRACENE	ND	34	8.4
BENZO (A) PYRENE	ND	34	8.4
BENZO (B) FLUORANTHENE	ND	34	8.4
BENZO (K) FLUORANTHENE	ND	34	8.4
BENZO (G, H, I) PERYLENE	17J	34	8.4
CHRYSENE	ND	34	8.4
DIBENZO (A, H) ANTHRACENE	ND	34	8.4
FLUORANTHENE	ND	34	8.4
FLUORENE	ND	34	8.4
INDENO (1, 2, 3-CD) PYRENE	ND	34	8.4
NAPHTHALENE	ND	34	8.4
PHENANTHRENE	ND	34	8.4
2-METHYLNAPHTHALENE	ND	34	8.4
1-METHYLNAPHTHALENE	ND	34	8.4
N-NITROSODIMETHYLAMINE	ND	34	8.4
PYRENE	ND	34	8.4
AZOBENZENE	ND	17	8.4
BENZO (E) PYRENE	16J	17	8.4
BIPHENYL	ND	17	8.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	341	374.5	91.2	40-130
2-FLUOROBIPHENYL	261	374.5	69.7	45-130
TERPHENYL-D14	294	374.5	78.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/10/1215:51
Sample ID:   SL-585-SA5C-SB-0.0-0.5            Date Analyzed: 05/11/12 22:40
Lab Samp ID: E018-07                           Dilution Factor: 2
Lab File ID: REJ311                            Matrix          : SOIL
Ext Btch ID: SVE020S                           % Moisture     : 6.6
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.4
ACENAPHTHYLENE	ND	21	5.4
ANTHRACENE	ND	21	5.4
BENZO (A) ANTHRACENE	ND	21	5.4
BENZO (A) PYRENE	ND	21	5.4
BENZO (B) FLUORANTHENE	5.9J	21	5.4
BENZO (K) FLUORANTHENE	ND	21	5.4
BENZO (G, H, I) PERYLENE	5.8J	21	5.4
CHRYSENE	ND	21	5.4
DIBENZO (A, H) ANTHRACENE	ND	21	5.4
FLUORANTHENE	ND	21	5.4
FLUORENE	ND	21	5.4
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.4
NAPHTHALENE	ND	21	5.4
PHENANTHRENE	ND	21	5.4
2-METHYLNAPHTHALENE	ND	21	5.4
1-METHYLNAPHTHALENE	ND	21	5.4
N-NITROSODIMETHYLAMINE	ND	21	5.4
PYRENE	ND	21	5.4
AZOBENZENE	ND	11	5.4
BENZO (E) PYRENE	7.5J	11	5.4
BIPHENYL	ND	11	5.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	317	356.9	88.9	40-130
2-FLUOROBIPHENYL	266	356.9	74.4	45-130
TERPHENYL-D14	293	356.9	82.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/10/1215:51
Sample ID:   SL-599-SA5C-SB-0.0-0.5           Date Analyzed: 05/11/12 22:59
Lab Samp ID: E018-08                           Dilution Factor: 2
Lab File ID: REJ312                            Matrix          : SOIL
Ext Btch ID: SVE020S                           % Moisture     : 7.6
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.4
ACENAPHTHYLENE	ND	22	5.4
ANTHRACENE	ND	22	5.4
BENZO (A) ANTHRACENE	ND	22	5.4
BENZO (A) PYRENE	ND	22	5.4
BENZO (B) FLUORANTHENE	ND	22	5.4
BENZO (K) FLUORANTHENE	ND	22	5.4
BENZO (G, H, I) PERYLENE	6.2J	22	5.4
CHRYSENE	ND	22	5.4
DIBENZO (A, H) ANTHRACENE	ND	22	5.4
FLUORANTHENE	ND	22	5.4
FLUORENE	ND	22	5.4
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.4
NAPHTHALENE	ND	22	5.4
PHENANTHRENE	ND	22	5.4
2-METHYLNAPHTHALENE	ND	22	5.4
1-METHYLNAPHTHALENE	ND	22	5.4
N-NITROSODIMETHYLAMINE	ND	22	5.4
PYRENE	ND	22	5.4
AZOBENZENE	ND	11	5.4
BENZO (E) PYRENE	6.6J	11	5.4
BIPHENYL	ND	11	5.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	311	360.7	86.1	40-130
2-FLUOROBIPHENYL	254	360.7	70.3	45-130
TERPHENYL-D14	278	360.7	77.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/10/1215:51
Sample ID:   SL-600-SA5C-SB-0.0-0.5            Date Analyzed: 05/11/12 23:18
Lab Samp ID: E018-09                            Dilution Factor: 1
Lab File ID: REJ313                             Matrix          : SOIL
Ext Btch ID: SVE020S                           % Moisture     : 16.6
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	3.0
ACENAPHTHYLENE	ND	12	3.0
ANTHRACENE	ND	12	3.0
BENZO (A) ANTHRACENE	ND	12	3.0
BENZO (A) PYRENE	3.1J	12	3.0
BENZO (B) FLUORANTHENE	4.0J	12	3.0
BENZO (K) FLUORANTHENE	ND	12	3.0
BENZO (G, H, I) PERYLENE	5.6J	12	3.0
CHRYSENE	3.2J	12	3.0
DIBENZO (A, H) ANTHRACENE	ND	12	3.0
FLUORANTHENE	5.8J	12	3.0
FLUORENE	ND	12	3.0
INDENO (1, 2, 3-CD) PYRENE	ND	12	3.0
NAPHTHALENE	ND	12	3.0
PHENANTHRENE	3.3J	12	3.0
2-METHYLNAPHTHALENE	ND	12	3.0
1-METHYLNAPHTHALENE	ND	12	3.0
N-NITROSODIMETHYLAMINE	ND	12	3.0
PYRENE	5.7J	12	3.0
AZOBENZENE	ND	6.0	3.0
BENZO (E) PYRENE	3.8J	6.0	3.0
BIPHENYL	ND	6.0	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	328	399.6	82.0	40-130
2-FLUOROBIPHENYL	259	399.6	64.8	45-130
TERPHENYL-D14	324	399.6	81.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/10/1215:51
Sample ID:   SL-591-SA5C-SB-0.0-0.5           Date Analyzed: 05/11/12 23:37
Lab Samp ID: E018-10                           Dilution Factor: 3
Lab File ID: REJ314                             Matrix          : SOIL
Ext Btch ID: SVE020S                           % Moisture     : 11.7
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	34	8.5
ACENAPHTHYLENE	ND	34	8.5
ANTHRACENE	ND	34	8.5
BENZO (A) ANTHRACENE	ND	34	8.5
BENZO (A) PYRENE	ND	34	8.5
BENZO (B) FLUORANTHENE	ND	34	8.5
BENZO (K) FLUORANTHENE	ND	34	8.5
BENZO (G, H, I) PERYLENE	10J	34	8.5
CHRYSENE	ND	34	8.5
DIBENZO (A, H) ANTHRACENE	ND	34	8.5
FLUORANTHENE	ND	34	8.5
FLUORENE	ND	34	8.5
INDENO (1, 2, 3-CD) PYRENE	ND	34	8.5
NAPHTHALENE	ND	34	8.5
PHENANTHRENE	ND	34	8.5
2-METHYLNAPHTHALENE	ND	34	8.5
1-METHYLNAPHTHALENE	ND	34	8.5
N-NITROSODIMETHYLAMINE	ND	34	8.5
PYRENE	ND	34	8.5
AZOBENZENE	ND	17	8.5
BENZO (E) PYRENE	12J	17	8.5
BIPHENYL	ND	17	8.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	300	377.5	79.5	40-130
2-FLUOROBIPHENYL	259	377.5	68.6	45-130
TERPHENYL-D14	309	377.5	81.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E018                           Date Extracted: 05/10/1215:51
Sample ID    : MBLK1S                           Date Analyzed: 05/11/12 16:39
Lab Samp ID  : SVE020SB                        Dilution Factor: 1
Lab File ID  : REJ292                          Matrix          : SOIL
Ext Btch ID  : SVE020S                        % Moisture     : NA
Calib. Ref.  : RAJ290                          Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	276	333.3	82.7	40-130
2-FLUOROBIPHENYL	228	333.3	68.4	45-130
TERPHENYL-D14	299	333.3	89.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E018  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE020SB SVE020SL SVE020SC  
LAB FILE ID: REJ292 REJ293 REJ294  
DATE EXTRACTED: 05/10/1215:51 05/10/1215:51 05/10/1215:51 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1216:39 05/11/1216:58 05/11/1217:17 DATE RECEIVED: 05/10/12  
PREP. BATCH: SVE020S SVE020S SVE020S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	318	96	333	294	88	8	10-130	50
Acenaphthylene	ND	333	348	104	333	321	96	8	20-130	50
Anthracene	ND	333	292	87	333	282	85	3	20-130	50
Benzo (a) anthracene	ND	333	350	105	333	344	103	2	30-130	50
Benzo (a) pyrene	ND	333	375	113	333	357	107	5	30-130	50
Benzo (b) fluoranthene	ND	333	390	117	333	373	112	5	40-130	50
Benzo (k) fluoranthene	ND	333	378	113	333	356	107	6	30-140	50
Benzo (g, h, i) perylene	ND	333	411	123	333	388	116	6	30-140	50
Chrysene	ND	333	351	105	333	324	97	8	30-140	50
Dibenzo (a, h) anthracene	ND	333	414	124	333	392	118	5	40-140	50
Fluoranthene	ND	333	351	105	333	337	101	4	30-130	50
Fluorene	ND	333	351	105	333	317	95	10	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	416	125	333	394	118	5	20-160	50
Naphthalene	ND	333	274	82	333	264	79	4	10-130	50
Phenanthrene	ND	333	292	88	333	282	84	4	20-130	50
2-Methylnaphthalene	ND	333	310	93	333	298	89	4	30-150	50
1-Methylnaphthalene	ND	333	309	93	333	296	89	4	30-150	50
N-Nitrosodimethylamine	ND	333	313	94	333	296	89	6	30-150	50
Pyrene	ND	333	336	101	333	324	97	4	20-150	50
Azobenzene	ND	333	304	91	333	289	87	5	30-150	50
Benzo (e) pyrene	ND	333	345	104	333	327	98	6	30-150	50
Biphenyl	ND	333	281	84	333	261	78	7	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	304	91	333	269	81	40-130
2-Fluorobiphenyl	333	259	78	333	229	69	45-130
Terphenyl-d14	333	320	96	333	290	87	45-130

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/09/12 13:09
Sample ID    : SL-587-SA5C-SB-0.0-0.5          Date Analyzed: 05/14/12 14:35
Lab Samp ID  : E018-01W                         Dilution Factor: 1
Lab File ID  : SE14006A                        Matrix          : SOIL
Ext Btch ID  : CPE012S                         % Moisture     : 12.3
Calib. Ref. : SE14003A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.56   (14.42)	15.20	82.7   (94.9)	45-120
TETRACHLORO-M-XYLENE	(16.22)   15.78	15.20	(107)   104	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/09/12 13:09
Sample ID:   SL-604-SA5C-SB-0.0-0.5            Date Analyzed: 05/14/12 15:09
Lab Samp ID: E018-02W                           Dilution Factor: 1
Lab File ID: SE14007A                           Matrix          : SOIL
Ext Btch ID: CPE012S                             % Moisture     : 11.0
Calib. Ref.: SE14003A                           Instrument ID  : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.51   (14.40)	14.98	83.5   (96.1)	45-120
TETRACHLORO-M-XYLENE	(16.97)   16.02	14.98	(113)   107	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/09/12 13:09
Sample ID    : SL-716-SA5C-SB-0.0-0.5          Date Analyzed: 05/14/12 15:43
Lab Samp ID  : E018-03W                         Dilution Factor: 1
Lab File ID  : SE14008A                        Matrix          : SOIL
Ext Btch ID  : CPE012S                         % Moisture      : 5.0
Calib. Ref.  : SE14003A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	15.08   (16.33)	14.03	107   (116)	45-120
TETRACHLORO-M-XYLENE	(16.47)   16.05	14.03	(117)   114	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                       Date Received: 05/02/12
Batch No.    : 12E018                             Date Extracted: 05/09/12 13:09
Sample ID    : SL-717-SA5C-SB-0.0-0.5           Date Analyzed: 05/14/12 16:18
Lab Samp ID  : E018-04W                           Dilution Factor: 1
Lab File ID  : SE14009A                           Matrix          : SOIL
Ext Btch ID  : CPE012S                             % Moisture     : 3.5
Calib. Ref.  : SE14003A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	41	21   21	
AROCLOR 5442	(ND)   ND	41	21   21	
AROCLOR 5460	(ND)   ND	41	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	15.29   (16.13)	13.81	111   (117)	45-120
TETRACHLORO-M-XYLENE	(15.61)   15.43	13.81	(113)   112	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/09/12 13:09
Sample ID    : SL-718-SA5C-SB-0.0-0.5          Date Analyzed: 05/14/12 16:52
Lab Samp ID  : E018-05W                         Dilution Factor: 1
Lab File ID  : SE14010A                        Matrix          : SOIL
Ext Btch ID  : CPE012S                         % Moisture     : 4.2
Calib. Ref.  : SE14003A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	14.28   (16.00)	13.91	103   (115)	45-120
TETRACHLORO-M-XYLENE	(15.52)   15.41	13.91	(112)   111	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/09/12 13:09
Sample ID    : SL-719-SA5C-SB-0.0-0.5          Date Analyzed: 05/14/12 17:26
Lab Samp ID  : E018-06W                         Dilution Factor: 1
Lab File ID  : SE14011A                        Matrix          : SOIL
Ext Btch ID  : CPE012S                          % Moisture     : 4.1
Calib. Ref.  : SE14003A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	14.67   (15.78)	13.90	106   (114)	45-120
TETRACHLORO-M-XYLENE	(15.51)   15.21	13.90	(112)   109	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/09/12 13:09
Sample ID    : SL-585-SA5C-SB-0.0-0.5          Date Analyzed: 05/14/12 18:01
Lab Samp ID  : E018-07W                         Dilution Factor: 1
Lab File ID  : SE14012A                        Matrix          : SOIL
Ext Btch ID  : CPE012S                          % Moisture     : 6.6
Calib. Ref.  : SE14003A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	13.77   (15.36)	14.27	96.5   (108)	45-120
TETRACHLORO-M-XYLENE	(15.80)   15.52	14.27	(111)   109	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/09/12 13:09
Sample ID    : SL-599-SA5C-SB-0.0-0.5          Date Analyzed: 05/14/12 18:35
Lab Samp ID  : E018-08W                         Dilution Factor: 1
Lab File ID  : SE14013A                        Matrix          : SOIL
Ext Btch ID  : CPE012S                          % Moisture     : 7.6
Calib. Ref.  : SE14003A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.44   (14.28)	14.43	86.2   (99.0)	45-120
TETRACHLORO-M-XYLENE	(15.07)   15.00	14.43	(104)   104	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
Batch No.    : 12E018                           Date Extracted: 05/09/12 13:09
Sample ID    : SL-600-SA5C-SB-0.0-0.5          Date Analyzed: 05/14/12 19:09
Lab Samp ID  : E018-09W                         Dilution Factor: 1
Lab File ID  : SE14014A                        Matrix          : SOIL
Ext Btch ID  : CPE012S                          % Moisture     : 16.6
Calib. Ref.  : SE14003A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	48	24   24	
AROCLOR 5442	(ND)   ND	48	24   24	
AROCLOR 5460	(ND)   ND	48	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	15.08   (16.23)	15.98	94.3   (102)	45-120
TETRACHLORO-M-XYLENE	(16.23)   16.09	15.98	(102)   101	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.    : 12E018                           Date Extracted: 05/09/12 13:09
Sample ID    : MBLK1S                            Date Analyzed: 05/11/12 21:22
Lab Samp ID  : 60E012SB                         Dilution Factor: 1
Lab File ID  : SE11009A                        Matrix          : SOIL
Ext Btch ID  : CPE012S                         % Moisture     : NA
Calib. Ref.  : SE11002A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.69)   13.67	13.33	(103)   103	45-120
TETRACHLORO-M-XYLENE	(12.90)   12.68	13.33	(96.8)   95.1	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E018  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E012SB 60E012SL 60E012SC  
LAB FILE ID: SE11009A SE11010A SE11011A  
DATE EXTRACTED: 05/09/1213:09 05/09/1213:09 05/09/1213:09 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1221:22 05/11/1221:56 05/11/1222:30 DATE RECEIVED: 05/09/12  
PREP. BATCH: CPE012S CPE012S CPE012S  
CALIB. REF: SE11002A SE11002A SE11002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	165   (174)	99   (104)	167	161   (174)	97   (104)	2   (0)	50-130	50
Aroclor 1260	(ND)   ND	167	(178)   177	(107)   106	167	(178)   178	(107)   107	(0)   1	60-150	50
Aroclor 5460	(ND)   ND	83.3	(102)   94.2	(122)   113	83.3	(102)   72.8	(122)   87	(0)   26	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	13.51   (13.53)	101   (101)	13.33	13.24   (13.32)	99.4   (99.9)	45-120
Tetrachloro-m-xylene	13.33	(12.67)   12.51	(95.0)   93.8	13.33	(12.37)   12.18	(92.8)   91.4	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/02/12
SDG NO.     : 12E018.                           Date Extracted: 05/07/12 10:15
Sample ID   : SL-587-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 18:10
Lab Samp ID : E018-01                           Dilution Factor: 0.952
Lab File ID : 98E06053                          Matrix          : SOIL
Ext Btch ID : IME008S                            % Moisture     : 12.3
Calib. Ref. : 98E06049                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16000	109	13.0
Antimony	0.273J	0.543	0.109
Arsenic	3.94	0.543	0.217
Barium	113	0.543	0.217
Beryllium	0.539J	0.543	0.0543
Boron	4.01J	5.43	2.71
Cadmium	0.317J	0.543	0.0543
Calcium	5090	21.7	10.9
Chromium	19.6	0.543	0.217
Cobalt	7.84	0.543	0.0543
Copper	11.5	0.543	0.217
Iron	21300	109	10.9
Lead	9.61	0.543	0.109
Magnesium	4940	10.9	5.43
Manganese	356	0.543	0.271
Molybdenum	0.594	0.543	0.0543
Nickel	13.0	0.543	0.217
Potassium	3560	109	32.6
Selenium	ND	0.543	0.217
Silver	ND	0.543	0.0543
Sodium	110	109	54.3
Strontium	29.2	0.543	0.271
Thallium	0.246J	0.434	0.0543
Tin	ND	10.9	5.43
Titanium	958	1.09	0.543
Vanadium	37.8	0.543	0.0543
Zinc	94.4	5.43	1.63
Lithium	17.2	2.17	1.09
Phosphorus	402	13.0	6.51
Zirconium	ND	5.43	2.71

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/02/12
Project     : SSFL PHASE 3                     Date Received: 05/02/12
SDG NO.    : 12E018.                           Date Extracted: 05/07/12 10:15
Sample ID:  SL-604-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 18:14
Lab Samp ID: E018-02                          Dilution Factor: 0.995
Lab File ID: 98E06054                         Matrix          : SOIL
Ext Btch ID: IME008S                           % Moisture     : 11.0
Calib. Ref.: 98E06049                         Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20800	112	13.4
Antimony	0.246J	0.559	0.112
Arsenic	4.85	0.559	0.224
Barium	126	0.559	0.224
Beryllium	0.674	0.559	0.0559
Boron	4.25J	5.59	2.79
Cadmium	0.402J	0.559	0.0559
Calcium	5160	22.4	11.2
Chromium	24.8	0.559	0.224
Cobalt	8.80	0.559	0.0559
Copper	12.6	0.559	0.224
Iron	23400	112	11.2
Lead	11.1	0.559	0.112
Magnesium	5160	11.2	5.59
Manganese	421	0.559	0.279
Molybdenum	0.578	0.559	0.0559
Nickel	16.0	0.559	0.224
Potassium	3660	112	33.5
Selenium	ND	0.559	0.224
Silver	ND	0.559	0.0559
Sodium	101J	112	55.9
Strontium	31.9	0.559	0.279
Thallium	0.295J	0.447	0.0559
Tin	ND	11.2	5.59
Titanium	1010	1.12	0.559
Vanadium	47.9	0.559	0.0559
Zinc	68.4	5.59	1.68
Lithium	18.8	2.24	1.12
Phosphorus	239	13.4	6.71
Zirconium	ND	5.59	2.79

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/02/12
Project     : SSFL PHASE 3                     Date Received: 05/02/12
SDG NO.    : 12E018.                           Date Extracted: 05/07/12 10:15
Sample ID:  SL-716-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 18:19
Lab Samp ID: E018-03                          Dilution Factor: 1.00
Lab File ID: 98E06055                         Matrix          : SOIL
Ext Btch ID: IME008S                          % Moisture     : 5.0
Calib. Ref.: 98E06049                         Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11700	105	12.6
Antimony	0.200J	0.526	0.105
Arsenic	4.97	0.526	0.211
Barium	89.2	0.526	0.211
Beryllium	0.507J	0.526	0.0526
Boron	3.39J	5.26	2.63
Cadmium	0.232J	0.526	0.0526
Calcium	5740	21.1	10.5
Chromium	20.1	0.526	0.211
Cobalt	5.42	0.526	0.0526
Copper	11.6	0.526	0.211
Iron	20100	105	10.5
Lead	7.30	0.526	0.105
Magnesium	4710	10.5	5.26
Manganese	238	0.526	0.263
Molybdenum	0.695	0.526	0.0526
Nickel	12.9	0.526	0.211
Potassium	2110	105	31.6
Selenium	0.276J	0.526	0.211
Silver	ND	0.526	0.0526
Sodium	84.1J	105	52.6
Strontium	27.5	0.526	0.263
Thallium	0.204J	0.421	0.0526
Tin	ND	10.5	5.26
Titanium	722	1.05	0.526
Vanadium	33.9	0.526	0.0526
Zinc	58.9	5.26	1.58
Lithium	25.3	2.11	1.05
Phosphorus	500	12.6	6.32
Zirconium	ND	5.26	2.63

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/02/12
Project    : SSFL PHASE 3                     Date Received: 05/02/12
SDG NO.    : 12E018.                          Date Extracted: 05/07/12 10:15
Sample ID: SL-717-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 18:23
Lab Samp ID: E018-04                         Dilution Factor: 1.00
Lab File ID: 98E06056                       Matrix          : SOIL
Ext Btch ID: IME008S                        % Moisture     : 3.5
Calib. Ref.: 98E06049                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	4220	104	12.4
Antimony	0.119J	0.518	0.104
Arsenic	2.36	0.518	0.207
Barium	23.4	0.518	0.207
Beryllium	0.114J	0.518	0.0518
Boron	ND	5.18	2.59
Cadmium	0.155J	0.518	0.0518
Calcium	8180	20.7	10.4
Chromium	14.8	0.518	0.207
Cobalt	2.31	0.518	0.0518
Copper	3.07	0.518	0.207
Iron	6100	104	10.4
Lead	1.35	0.518	0.104
Magnesium	1190	10.4	5.18
Manganese	94.0	0.518	0.259
Molybdenum	0.893	0.518	0.0518
Nickel	7.42	0.518	0.207
Potassium	555	104	31.1
Selenium	ND	0.518	0.207
Silver	ND	0.518	0.0518
Sodium	73.2J	104	51.8
Strontium	22.5	0.518	0.259
Thallium	ND	0.415	0.0518
Tin	ND	10.4	5.18
Titanium	217	1.04	0.518
Vanadium	13.8	0.518	0.0518
Zinc	13.1	5.18	1.55
Lithium	2.39	2.07	1.04
Phosphorus	662	12.4	6.22
Zirconium	2.72J	5.18	2.59

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/02/12
Project     : SSFL PHASE 3                     Date Received: 05/02/12
SDG NO.    : 12E018.                           Date Extracted: 05/07/12 10:15
Sample ID:  SL-718-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 18:28
Lab Samp ID: E018-05                           Dilution Factor: 0.980
Lab File ID: 98E06057                           Matrix          : SOIL
Ext Btch ID: IME008S                             % Moisture     : 4.2
Calib. Ref.: 98E06049                           Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	7130	102	12.3
Antimony	0.176J	0.511	0.102
Arsenic	2.79	0.511	0.205
Barium	57.0	0.511	0.205
Beryllium	0.215J	0.511	0.0511
Boron	ND	5.11	2.56
Cadmium	0.196J	0.511	0.0511
Calcium	5560	20.5	10.2
Chromium	14.2	0.511	0.205
Cobalt	3.49	0.511	0.0511
Copper	6.02	0.511	0.205
Iron	10600	102	10.2
Lead	2.88	0.511	0.102
Magnesium	2470	10.2	5.11
Manganese	153	0.511	0.256
Molybdenum	0.793	0.511	0.0511
Nickel	8.52	0.511	0.205
Potassium	1260	102	30.7
Selenium	0.343J	0.511	0.205
Silver	ND	0.511	0.0511
Sodium	77.7J	102	51.1
Strontium	27.2	0.511	0.256
Thallium	0.100J	0.409	0.0511
Tin	ND	10.2	5.11
Titanium	494	1.02	0.511
Vanadium	21.8	0.511	0.0511
Zinc	29.3	5.11	1.53
Lithium	7.56	2.05	1.02
Phosphorus	398	12.3	6.14
Zirconium	ND	5.11	2.56

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/02/12
Project     : SSFL PHASE 3                     Date Received: 05/02/12
SDG NO.    : 12E018.                           Date Extracted: 05/07/12 10:15
Sample ID:  SL-719-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 18:33
Lab Samp ID: E018-06                           Dilution Factor: 0.971
Lab File ID: 98E06058                           Matrix          : SOIL
Ext Btch ID: IME008S                             % Moisture     : 4.1
Calib. Ref.: 98E06049                           Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11700	101	12.2
Antimony	0.243J	0.506	0.101
Arsenic	4.68	0.506	0.203
Barium	88.5	0.506	0.203
Beryllium	0.429J	0.506	0.0506
Boron	ND	5.06	2.53
Cadmium	0.356J	0.506	0.0506
Calcium	3870	20.3	10.1
Chromium	18.8	0.506	0.203
Cobalt	5.24	0.506	0.0506
Copper	8.65	0.506	0.203
Iron	18500	101	10.1
Lead	5.96	0.506	0.101
Magnesium	3990	10.1	5.06
Manganese	260	0.506	0.253
Molybdenum	0.608	0.506	0.0506
Nickel	11.1	0.506	0.203
Potassium	2610	101	30.4
Selenium	0.272J	0.506	0.203
Silver	ND	0.506	0.0506
Sodium	77.0J	101	50.6
Strontium	21.1	0.506	0.253
Thallium	0.220J	0.405	0.0506
Tin	ND	10.1	5.06
Titanium	850	1.01	0.506
Vanadium	30.6	0.506	0.0506
Zinc	57.4	5.06	1.52
Lithium	19.2	2.03	1.01
Phosphorus	348	12.2	6.08
Zirconium	ND	5.06	2.53

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/02/12
Project    : SSFL PHASE 3                     Date Received: 05/02/12
SDG NO.    : 12E018.                           Date Extracted: 05/07/12 10:15
Sample ID: SL-585-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 18:37
Lab Samp ID: E018-07                          Dilution Factor: 0.990
Lab File ID: 98E06059                         Matrix          : SOIL
Ext Btch ID: IME008S                          % Moisture     : 6.6
Calib. Ref.: 98E06049                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14900	106	12.7
Antimony	0.219J	0.530	0.106
Arsenic	3.23	0.530	0.212
Barium	114	0.530	0.212
Beryllium	0.470J	0.530	0.0530
Boron	3.28J	5.30	2.65
Cadmium	0.313J	0.530	0.0530
Calcium	4020	21.2	10.6
Chromium	18.0	0.530	0.212
Cobalt	7.08	0.530	0.0530
Copper	12.2	0.530	0.212
Iron	19500	106	10.6
Lead	8.81	0.530	0.106
Magnesium	4410	10.6	5.30
Manganese	323	0.530	0.265
Molybdenum	0.493J	0.530	0.0530
Nickel	11.3	0.530	0.212
Potassium	3640	106	31.8
Selenium	ND	0.530	0.212
Silver	ND	0.530	0.0530
Sodium	93.0J	106	53.0
Strontium	29.2	0.530	0.265
Thallium	0.231J	0.424	0.0530
Tin	ND	10.6	5.30
Titanium	929	1.06	0.530
Vanadium	37.3	0.530	0.0530
Zinc	53.0	5.30	1.59
Lithium	13.0	2.12	1.06
Phosphorus	335	12.7	6.36
Zirconium	ND	5.30	2.65

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/02/12
Project     : SSFL PHASE 3                     Date Received: 05/02/12
SDG NO.    : 12E018.                           Date Extracted: 05/07/12 10:15
Sample ID:  SL-599-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 18:42
Lab Samp ID: E018-08                          Dilution Factor: 0.990
Lab File ID: 98E06060                         Matrix          : SOIL
Ext Btch ID: IME008S                           % Moisture     : 7.6
Calib. Ref.: 98E06049                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16400	107	12.9
Antimony	0.298J	0.536	0.107
Arsenic	3.96	0.536	0.214
Barium	107	0.536	0.214
Beryllium	0.545	0.536	0.0536
Boron	4.38J	5.36	2.68
Cadmium	0.470J	0.536	0.0536
Calcium	7320	21.4	10.7
Chromium	20.9	0.536	0.214
Cobalt	6.37	0.536	0.0536
Copper	11.3	0.536	0.214
Iron	21800	107	10.7
Lead	15.2	0.536	0.107
Magnesium	4940	10.7	5.36
Manganese	315	0.536	0.268
Molybdenum	0.536	0.536	0.0536
Nickel	12.2	0.536	0.214
Potassium	3990	107	32.1
Selenium	ND	0.536	0.214
Silver	ND	0.536	0.0536
Sodium	106J	107	53.6
Strontium	32.0	0.536	0.268
Thallium	0.262J	0.429	0.0536
Tin	ND	10.7	5.36
Titanium	974	1.07	0.536
Vanadium	37.7	0.536	0.0536
Zinc	71.6	5.36	1.61
Lithium	20.2	2.14	1.07
Phosphorus	375	12.9	6.43
Zirconium	ND	5.36	2.68

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/02/12
Project     : SSFL PHASE 3                     Date Received: 05/02/12
SDG NO.    : 12E018.                           Date Extracted: 05/07/12 10:15
Sample ID:  SL-600-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 19:14
Lab Samp ID: E018-09                           Dilution Factor: 0.971
Lab File ID: 98E06067                           Matrix          : SOIL
Ext Btch ID: IME008S                             % Moisture     : 16.6
Calib. Ref.: 98E06062                           Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19700	116	14.0
Antimony	0.352J	0.582	0.116
Arsenic	4.26	0.582	0.233
Barium	137	0.582	0.233
Beryllium	0.675	0.582	0.0582
Boron	4.23J	5.82	2.91
Cadmium	0.401J	0.582	0.0582
Calcium	3800	23.3	11.6
Chromium	22.9	0.582	0.233
Cobalt	7.82	0.582	0.0582
Copper	12.7	0.582	0.233
Iron	22500	116	11.6
Lead	14.4	0.582	0.116
Magnesium	4580	11.6	5.82
Manganese	409	0.582	0.291
Molybdenum	0.648	0.582	0.0582
Nickel	13.8	0.582	0.233
Potassium	3740	116	34.9
Selenium	ND	0.582	0.233
Silver	ND	0.582	0.0582
Sodium	107J	116	58.2
Strontium	31.0	0.582	0.291
Thallium	0.310J	0.466	0.0582
Tin	ND	11.6	5.82
Titanium	1090	1.16	0.582
Vanadium	43.7	0.582	0.0582
Zinc	71.3	5.82	1.75
Lithium	16.6	2.33	1.16
Phosphorus	261	14.0	6.99
Zirconium	ND	5.82	2.91

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/02/12
Project     : SSFL PHASE 3                     Date Received: 05/02/12
SDG NO.    : 12E018.                           Date Extracted: 05/07/12 10:15
Sample ID:  SL-591-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 19:18
Lab Samp ID: E018-10                           Dilution Factor: 0.990
Lab File ID: 98E06068                           Matrix          : SOIL
Ext Btch ID: IME008S                             % Moisture     : 11.7
Calib. Ref.: 98E06062                           Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20800	112	13.5
Antimony	0.280J	0.561	0.112
Arsenic	7.11	0.561	0.224
Barium	140	0.561	0.224
Beryllium	0.781	0.561	0.0561
Boron	ND	5.61	2.80
Cadmium	0.280J	0.561	0.0561
Calcium	3570	22.4	11.2
Chromium	36.9	0.561	0.224
Cobalt	8.69	0.561	0.0561
Copper	13.9	0.561	0.224
Iron	28000	112	11.2
Lead	9.46	0.561	0.112
Magnesium	6560	11.2	5.61
Manganese	383	0.561	0.280
Molybdenum	0.869	0.561	0.0561
Nickel	26.1	0.561	0.224
Potassium	3770	112	33.6
Selenium	ND	0.561	0.224
Silver	0.0810J	0.561	0.0561
Sodium	99.4J	112	56.1
Strontium	30.2	0.561	0.280
Thallium	0.342J	0.448	0.0561
Tin	ND	11.2	5.61
Titanium	1160	1.12	0.561
Vanadium	49.9	0.561	0.0561
Zinc	70.9	5.61	1.68
Lithium	30.1	2.24	1.12
Phosphorus	361	13.5	6.73
Zirconium	ND	5.61	2.80

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/07/12
SDG NO.     : 12E018.                           Date Extracted: 05/07/12 10:15
Sample ID   : MBLK1S                             Date Analyzed: 05/10/12 16:35
Lab Samp ID : IME008SB                           Dilution Factor: 1
Lab File ID : 98E06033                           Matrix          : SOIL
Ext Btch ID : IME008S                             % Moisture      : NA
Calib. Ref. : 98E06030                           Instrument ID   : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E018  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME008SB IME008SL IME008SC  
LAB FILE ID: 98E06033 98E06034 98E06035  
DATIME EXTRACTD: 05/07/1210:15 05/07/1210:15 05/07/1210:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/10/1216:35 05/10/1216:40 05/10/1216:44 DATE RECEIVED: 05/07/12  
PREP. BATCH: IME008S IME008S IME008S  
CALIB. REF: 98E06030 98E06030 98E06030

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2900	116	2500	2790	112	4	80-120	20
Antimony	ND	25.0	24.8	99	25.0	23.9	95	4	80-120	20
Arsenic	ND	25.0	23.9	96	25.0	23.2	93	3	80-120	20
Barium	ND	25.0	25.7	103	25.0	24.9	100	3	80-120	20
Beryllium	ND	25.0	22.2	89	25.0	21.7	87	2	80-120	20
Boron	ND	25.0	24.8	99	25.0	24.4	98	2	80-120	20
Cadmium	ND	25.0	25.2	101	25.0	24.3	97	3	80-120	20
Calcium	ND	2500	2770	111	2500	2660	106	4	80-120	20
Chromium	ND	25.0	25.9	103	25.0	24.8	99	4	80-120	20
Cobalt	ND	25.0	25.2	101	25.0	24.1	97	4	80-120	20
Copper	ND	25.0	25.6	102	25.0	24.4	98	5	80-120	20
Iron	ND	2500	2730	109	2500	2650	106	3	80-120	20
Lead	ND	25.0	26.0	104	25.0	24.9	99	4	80-120	20
Magnesium	ND	2500	2970	119	2500	2840	114	4	80-120	20
Manganese	ND	25.0	26.0	104	25.0	24.9	100	4	80-120	20
Molybdenum	ND	25.0	25.2	101	25.0	24.4	98	3	80-120	20
Nickel	ND	25.0	25.3	101	25.0	24.3	97	4	80-120	20
Potassium	ND	2500	2730	109	2500	2630	105	4	80-120	20
Selenium	ND	25.0	25.3	101	25.0	24.7	99	2	80-120	20
Silver	ND	25.0	26.1	104	25.0	25.3	101	3	80-120	20
Sodium	ND	2500	2860	114	2500	2790	111	3	80-120	20
Strontium	ND	25.0	27.1	108	25.0	26.4	106	3	80-120	20
Thallium	ND	25.0	25.8	103	25.0	24.6	99	5	80-120	20
Tin	ND	25.0	28.6	114	25.0	27.7	111	3	80-120	20
Titanium	ND	25.0	26.1	104	25.0	25.1	101	4	80-120	20
Vanadium	ND	25.0	25.7	103	25.0	24.8	99	4	80-120	20
Zinc	ND	50.0	49.8	100	50.0	47.9	96	4	80-120	20
Lithium	ND	25.0	25.7	103	25.0	24.9	100	3	80-120	20
Phosphorus	ND	250	251	100	250	245	98	2	80-120	20
Zirconium	ND	25.0	26.0	104	25.0	25.4	102	2	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E018  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 4.2  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-722-SA5C-SB-0.0-0.5  
CONTROL NO.: E004-05 E004-05A  
LAB FILE ID: 98E06042 98E06041  
DATIME EXTRACTD: 05/07/1210:15 05/07/1210:15 DATE COLLECTED: 05/01/12  
DATIME ANALYZD: 05/10/1217:19 05/10/1217:15 DATE RECEIVED: 05/01/12  
PREP. BATCH: IME008S IME008S  
CALIB. REF: 98E06037 98E06037

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	5270	2610	7950	103	75-125
Antimony	0.141J	26.1	25.2	96	75-125
Arsenic	2.41	26.1	26.2	91	75-125
Barium	38.5	26.1	64.9	101	75-125
Beryllium	0.136J	26.1	23.5	90	75-125
Boron	ND	26.1	27.4	105	75-125
Cadmium	0.173J	26.1	25.4	97	75-125
Calcium	5390	2610	8090	103	75-125
Chromium	13.8	26.1	38.5	94	75-125
Cobalt	2.55	26.1	26.4	91	75-125
Copper	3.82	26.1	27.7	91	75-125
Iron	7400	2610	9990	99	75-125
Lead	1.54	26.1	27.5	100	75-125
Magnesium	1590	2610	4280	103	75-125
Manganese	108	26.1	132	91	75-125
Molybdenum	0.845	26.1	26.3	97	75-125
Nickel	7.83	26.1	31.5	91	75-125
Potassium	652	2610	3410	106	75-125
Selenium	0.387J	26.1	25.5	96	75-125
Silver	ND	26.1	26.0	100	75-125
Sodium	67.1J	2610	2820	106	75-125
Strontium	30.1	26.1	57.2	104	75-125
Thallium	ND	26.1	26.0	100	75-125
Tin	ND	26.1	28.6	110	75-125
Titanium	274	26.1	303	111	75-125
Vanadium	16.8	26.1	41.5	95	75-125
Zinc	14.1	52.2	62.0	92	75-125
Lithium	2.88	26.1	29.3	101	75-125
Phosphorus	386	261	665	107	75-125
Zirconium	3.08J	26.1	29.9	103	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E018  
 METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 4.2  
 DILUTION FACTOR: 1.00 5.00  
 SAMPLE ID: SL-722-SA5C-SB SL-722-SA5C-SB  
 EMAX SAMP ID: E004-05 E004-05J  
 LAB FILE ID: 98E06042 98E06043  
 DATE EXTRACTED: 05/07/1210:15 05/07/1210:15 DATE COLLECTED: 05/01/12  
 DATE ANALYZED: 05/10/1217:19 05/10/1217:24 DATE RECEIVED: 05/01/12  
 PREP. BATCH: IME008S IME008S  
 CALIB. REF: 98E06037 98E06037

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	5270	5270	0	10
Antimony	0.141J	ND	NA	10
Arsenic	2.41	2.33J	NA	10
Barium	38.5	38.1	1	10
Beryllium	0.136J	ND	NA	10
Boron	ND	ND	0	10
Cadmium	0.173J	ND	NA	10
Calcium	5390	5450	1	10
Chromium	13.8	14.0	1	10
Cobalt	2.55	2.69	6	10
Copper	3.82	4.13	8	10
Iron	7400	7410	0	10
Lead	1.54	1.56J	NA	10
Magnesium	1590	1600	1	10
Manganese	108	113	5	10
Molybdenum	0.845	0.857J	NA	10
Nickel	7.83	7.99	2	10
Potassium	652	661	1	10
Selenium	0.387J	ND	NA	10
Silver	ND	ND	0	10
Sodium	67.1J	ND	NA	10
Strontium	30.1	28.9	4	10
Thallium	ND	ND	0	10
Tin	ND	ND	0	10
Titanium	274	270	1	10
Vanadium	16.8	17.1	2	10
Zinc	14.1	16.9J	NA	10
Lithium	2.88	ND	NA	10
Phosphorus	386	391	1	10
Zirconium	3.08J	ND	NA	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E018  
 =====

Matrix : SOIL  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLE001SB	ND	1	NA	5.00	2.50	05/11/1216:01	05/09/1215:10	NE11004	NE11003	PLE001S	NA	05/09/12
LCS1S	PLE001SL	26.8	1	NA	5.00	2.50	05/11/1216:15	05/09/1215:10	NE11005	NE11003	PLE001S	NA	05/09/12
LCD1S	PLE001SC	27.1	1	NA	5.00	2.50	05/11/1216:29	05/09/1215:10	NE11006	NE11003	PLE001S	NA	05/09/12
SL-604-SA5C-SB-0.0-0.5	E018-02	ND	1	11.0	5.62	2.81	05/11/1216:44	05/09/1215:10	NE11007	NE11003	PLE001S	05/02/1211:55	05/02/12
SL-599-SA5C-SB-0.0-0.5	E018-08	ND	1	7.6	5.41	2.71	05/11/1216:58	05/09/1215:10	NE11008	NE11003	PLE001S	05/02/1214:45	05/02/12
SL-600-SA5C-SB-0.0-0.5	E018-09	ND	1	16.6	6.00	3.00	05/11/1217:12	05/09/1215:10	NE11009	NE11003	PLE001S	05/02/1214:15	05/02/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E018  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLE001SB PLE001SL PLE001SC  
LAB FILE ID: NE11004 NE11005 NE11006  
DATE EXTRACTED: 05/09/1215:10 05/09/1215:10 05/09/1215:10 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1216:01 05/11/1216:15 05/11/1216:29 DATE RECEIVED: 05/09/12  
PREP. BATCH: PLE001S PLE001S PLE001S  
CALIB. REF: NE11003 NE11003 NE11003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	26.8	107	25.0	27.1	109	1	85-115	20

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E018  
 =====

Matrix : SOIL  
 Instrument ID : 53  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL	MDL	Analysis	Extraction	LFID	CAL REF	PREP BATCH	Collection	Received
			(pH Unit)	(pH Unit)	(pH Unit)		DATETIME	DATETIME				DATETIME	DATETIME
SL-587-SA5C-SB-0.0-0.5	E018-01	8.07	1	NA	NA	NA	05/03/1218:36	05/03/1218:36	12PHE004S01	PHE004S	PHE004S	05/02/1211:35	05/02/12
SL-587-SA5C-SB-0.0-0.5	DUPE018-01D	8.07	1	NA	NA	NA	05/03/1218:39	05/03/1218:36	12PHE004S02	PHE004S	PHE004S	05/02/1211:35	05/02/12
SL-604-SA5C-SB-0.0-0.5	E018-02	7.80	1	NA	NA	NA	05/03/1218:41	05/03/1218:36	12PHE004S03	PHE004S	PHE004S	05/02/1211:55	05/02/12
SL-716-SA5C-SB-0.0-0.5	E018-03	8.40	1	NA	NA	NA	05/03/1218:44	05/03/1218:36	12PHE004S04	PHE004S	PHE004S	05/02/1208:35	05/02/12
SL-717-SA5C-SB-0.0-0.5	E018-04	8.82	1	NA	NA	NA	05/03/1218:45	05/03/1218:36	12PHE004S05	PHE004S	PHE004S	05/02/1209:15	05/02/12
SL-718-SA5C-SB-0.0-0.5	E018-05	8.60	1	NA	NA	NA	05/03/1218:47	05/03/1218:36	12PHE004S06	PHE004S	PHE004S	05/02/1209:35	05/02/12
SL-719-SA5C-SB-0.0-0.5	E018-06	8.12	1	NA	NA	NA	05/03/1218:49	05/03/1218:36	12PHE004S07	PHE004S	PHE004S	05/02/1210:00	05/02/12
SL-585-SA5C-SB-0.0-0.5	E018-07	7.79	1	NA	NA	NA	05/03/1218:50	05/03/1218:36	12PHE004S08	PHE004S	PHE004S	05/02/1214:00	05/02/12
SL-599-SA5C-SB-0.0-0.5	E018-08	8.16	1	NA	NA	NA	05/03/1218:52	05/03/1218:36	12PHE004S09	PHE004S	PHE004S	05/02/1214:45	05/02/12
SL-600-SA5C-SB-0.0-0.5	E018-09	7.41	1	NA	NA	NA	05/03/1218:53	05/03/1218:36	12PHE004S10	PHE004S	PHE004S	05/02/1214:15	05/02/12
SL-591-SA5C-SB-0.0-0.5	E018-10	7.30	1	NA	NA	NA	05/03/1218:55	05/03/1218:36	12PHE004S11	PHE004S	PHE004S	05/02/1215:25	05/02/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E018	DATE RECEIVED:	05/02/12
SAMPLE ID:	SL-587-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	05/03/1218:36
CONTROL NO.:	E018-01D	DATE ANALYZED:	05/03/1218:39

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.07	8.07	0	0.10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E018

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE012SB	ND	1	NA	0.100	0.0500	05/14/1217:57	05/14/1212:45	M47E011071	M47E011068	HGE012S	NA	05/14/12
LCS1S	HGE012SL	0.845	1	NA	0.100	0.0500	05/14/1218:00	05/14/1212:45	M47E011072	M47E011068	HGE012S	NA	05/14/12
LCD1S	HGE012SC	0.845	1	NA	0.100	0.0500	05/14/1218:02	05/14/1212:45	M47E011073	M47E011068	HGE012S	NA	05/14/12
SL-587-SA5C-SB-0.0-0.5	E018-01	ND	1.00	12.3	0.114	0.0570	05/14/1218:22	05/14/1212:45	M47E011082	M47E011080	HGE012S	05/02/12	05/02/12
SL-604-SA5C-SB-0.0-0.5	E018-02	ND	0.985	11.0	0.111	0.0553	05/14/1218:25	05/14/1212:45	M47E011083	M47E011080	HGE012S	05/02/12	05/02/12
SL-716-SA5C-SB-0.0-0.5	E018-03	ND	1.01	5.0	0.106	0.0532	05/14/1218:27	05/14/1212:45	M47E011084	M47E011080	HGE012S	05/02/12	05/02/12
SL-717-SA5C-SB-0.0-0.5	E018-04	ND	0.995	3.5	0.103	0.0516	05/14/1218:29	05/14/1212:45	M47E011085	M47E011080	HGE012S	05/02/12	05/02/12
SL-718-SA5C-SB-0.0-0.5	E018-05	ND	0.995	4.2	0.104	0.0519	05/14/1218:31	05/14/1212:45	M47E011086	M47E011080	HGE012S	05/02/12	05/02/12
SL-719-SA5C-SB-0.0-0.5	E018-06	ND	1.00	4.1	0.104	0.0521	05/14/1218:33	05/14/1212:45	M47E011087	M47E011080	HGE012S	05/02/12	05/02/12
SL-585-SA5C-SB-0.0-0.5	E018-07	ND	1.00	6.6	0.107	0.0535	05/14/1218:36	05/14/1212:45	M47E011088	M47E011080	HGE012S	05/02/12	05/02/12
SL-599-SA5C-SB-0.0-0.5	E018-08	0.0608J	0.998	7.6	0.108	0.0540	05/14/1218:38	05/14/1212:45	M47E011089	M47E011080	HGE012S	05/02/12	05/02/12
SL-600-SA5C-SB-0.0-0.5	E018-09	ND	1.00	16.6	0.120	0.0600	05/14/1218:40	05/14/1212:45	M47E011090	M47E011080	HGE012S	05/02/12	05/02/12
SL-591-SA5C-SB-0.0-0.5	E018-10	ND	0.993	11.7	0.112	0.0562	05/14/1218:42	05/14/1212:45	M47E011091	M47E011080	HGE012S	05/02/12	05/02/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E018  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE012SB HGE012SL HGE012SC  
LAB FILE ID: M47E011071 M47E011072 M47E011073  
DATIME EXTRCTD: 05/14/1212:45 05/14/1212:45 05/14/1212:45 DATE COLLECTED: NA  
DATIME ANALYZD: 05/14/1217:57 05/14/1218:00 05/14/1218:02 DATE RECEIVED: 05/14/12  
PREP. BATCH: HGE012S HGE012S HGE012S  
CALIB. REF: M47E011068 M47E011068 M47E011068

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.845	101	.833	.845	101	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E018  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 4.6  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-1022-SA5C-SB-0.0-0.5  
CONTROL NO.: E004-06 E004-06A  
LAB FILE ID: M47E011075 M47E011074  
DATIME EXTRCTD: 05/14/1212:45 05/14/1212:45 DATE COLLECTED: 05/01/12  
DATIME ANALYZD: 05/14/1218:06 05/14/1218:04 DATE RECEIVED: 05/01/12  
PREP. BATCH: HGE012S HGE012S  
CALIB. REF: M47E011068 M47E011068

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.869	.9	104	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E018  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	4.6
DILUTION FACTOR:	0.995	4.98		
SAMPLE ID:	SL-1022-SA5C-SB-0.0	SL-1022-SA5C-SB-0.0		
EMAX SAMP ID:	E004-06	E004-06J		
LAB FILE ID:	M47E011075	M47E011076		
DATE EXTRACTED:	05/14/1212:45	05/14/1212:45	DATE COLLECTED:	05/01/12
DATE ANALYZED:	05/14/1218:06	05/14/1218:09	DATE RECEIVED:	05/01/12
PREP. BATCH:	HGE012S	HGE012S		
CALIB. REF:	M47E011068	M47E011068		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                          Date Extracted: 05/07/12 13:10
Sample ID    : EB-050312                       Date Analyzed: 05/09/12 22:58
Lab Samp ID  : E034-02                         Dilution Factor: 1.01
Lab File ID  : REJ237                          Matrix          : WATER
Ext Btch ID  : SVE014W                        % Moisture     : NA
Calib. Ref.  : RAJ290                          Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.51

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	16.4	20.20	81.4	40-130
2-FLUOROBIPHENYL	15.6	20.20	77.0	45-130
TERPHENYL-D14	19.8	20.20	97.8	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E034                           Date Extracted: 05/07/12 13:10
Sample ID    : MBLK1W                           Date Analyzed: 05/09/12 17:37
Lab Samp ID  : SVE014WB                         Dilution Factor: 1
Lab File ID  : REJ220                           Matrix          : WATER
Ext Btch ID  : SVE014W                           % Moisture      : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	16.6	20.00	83.2	40-130
2-FLUOROBIPHENYL	14.8	20.00	73.8	45-130
TERPHENYL-D14	19.5	20.00	97.6	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVE014WB SVE014WL SVE014WC  
LAB FILE ID: REJ220 REJ218 REJ219  
DATE EXTRACTED: 05/07/1213:10 05/07/1213:10 05/07/1213:10 DATE COLLECTED: NA  
DATE ANALYZED: 05/09/1217:37 05/09/1217:00 05/09/1217:19 DATE RECEIVED: 05/07/12  
PREP. BATCH: SVE014W SVE014W SVE014W  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	33.8	84	40.0	33.6	84	1	20-130	30
Acenaphthylene	ND	40.0	37.1	93	40.0	36.8	92	1	30-140	30
Anthracene	ND	40.0	33.4	84	40.0	32.5	81	3	40-130	30
Benzo (a) anthracene	ND	40.0	35.7	89	40.0	36.0	90	1	50-130	30
Benzo (a) pyrene	ND	40.0	37.8	94	40.0	37.2	93	2	50-130	30
Benzo (b) fluoranthene	ND	40.0	40.1	100	40.0	39.4	99	2	50-130	30
Benzo (k) fluoranthene	ND	40.0	36.5	91	40.0	35.9	90	2	50-130	30
Benzo (g, h, i) perylene	ND	40.0	41.0	103	40.0	40.3	101	2	30-150	30
Chrysene	ND	40.0	33.3	83	40.0	33.5	84	1	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	41.3	103	40.0	40.5	101	2	40-140	30
Fluoranthene	ND	40.0	36.7	92	40.0	36.4	91	1	40-130	30
Fluorene	ND	40.0	36.9	92	40.0	37.1	93	0	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	41.5	104	40.0	40.8	102	2	40-130	30
Naphthalene	ND	40.0	29.6	74	40.0	28.9	72	2	20-130	30
Phenanthrene	ND	40.0	33.4	84	40.0	32.6	81	3	40-130	30
2-Methylnaphthalene	ND	40.0	33.1	83	40.0	32.5	81	2	30-150	30
1-Methylnaphthalene	ND	40.0	32.9	82	40.0	32.4	81	1	40-150	30
N-Nitrosodimethylamine	ND	40.0	33.5	84	40.0	31.8	79	5	20-150	30
Pyrene	ND	40.0	35.1	88	40.0	35.2	88	0	40-130	30
Azobenzene	ND	40.0	35.2	88	40.0	33.7	84	4	30-150	30
Benzo (e) pyrene	ND	40.0	35.5	89	40.0	36.2	90	2	30-150	30
Biphenyl	ND	40.0	30.8	77	40.0	31.4	78	2	30-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	15.7	79	20.0	16.0	80	40-130
2-Fluorobiphenyl	20.0	13.8	69	20.0	14.4	72	45-130
Terphenyl-d14	20.0	16.6	83	20.0	17.5	88	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/10/12 15:51
Sample ID    : SL-602-SA5C-SB-0.0-0.5          Date Analyzed: 05/11/12 23:56
Lab Samp ID  : E034-01                           Dilution Factor: 3
Lab File ID  : REJ315                             Matrix          : SOIL
Ext Btch ID  : SVE020S                            % Moisture     : 8.1
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	33	8.2
ACENAPHTHYLENE	ND	33	8.2
ANTHRACENE	ND	33	8.2
BENZO (A) ANTHRACENE	ND	33	8.2
BENZO (A) PYRENE	9.0J	33	8.2
BENZO (B) FLUORANTHENE	20J	33	8.2
BENZO (K) FLUORANTHENE	ND	33	8.2
BENZO (G, H, I) PERYLENE	9.4J	33	8.2
CHRYSENE	9.1J	33	8.2
DIBENZO (A, H) ANTHRACENE	ND	33	8.2
FLUORANTHENE	18J	33	8.2
FLUORENE	ND	33	8.2
INDENO (1, 2, 3-CD) PYRENE	ND	33	8.2
NAPHTHALENE	ND	33	8.2
PHENANTHRENE	ND	33	8.2
2-METHYLNAPHTHALENE	ND	33	8.2
1-METHYLNAPHTHALENE	ND	33	8.2
N-NITROSODIMETHYLAMINE	ND	33	8.2
PYRENE	16J	33	8.2
AZOBENZENE	ND	16	8.2
BENZO (E) PYRENE	13J	16	8.2
BIPHENYL	ND	16	8.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	399	362.7	110	40-130
2-FLUOROBIPHENYL	364	362.7	100	45-130
TERPHENYL-D14	455	362.7	125	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/10/1215:51
Sample ID:   SL-603-SA5C-SB-0.0-0.5           Date Analyzed: 05/12/12 00:15
Lab Samp ID: E034-03                           Dilution Factor: 1
Lab File ID: REJ316                            Matrix          : SOIL
Ext Btch ID: SVE020S                           % Moisture     : 8.0
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	4.2J	11	2.7
BENZO (A) PYRENE	5.3J	11	2.7
BENZO (B) FLUORANTHENE	7.7J	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	4.3J	11	2.7
CHRYSENE	4.7J	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	11	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	2.9J	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	4.8J	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	10J	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	4.3J	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	303	362.3	83.6	40-130
2-FLUOROBIPHENYL	277	362.3	76.3	45-130
TERPHENYL-D14	311	362.3	85.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/10/1215:51
Sample ID:   SL-903-SA5C-SB-0.0-0.5           Date Analyzed: 05/12/12 01:12
Lab Samp ID: E034-04                           Dilution Factor: 1
Lab File ID: REJ319                            Matrix          : SOIL
Ext Btch ID: SVE020S                          % Moisture     : 6.7
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	5.5J	11	2.7
BENZO (A) PYRENE	6.5J	11	2.7
BENZO (B) FLUORANTHENE	8.4J	11	2.7
BENZO (K) FLUORANTHENE	3.1J	11	2.7
BENZO (G, H, I) PERYLENE	6.1J	11	2.7
CHRYSENE	5.6J	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	11	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	4.0J	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	4.9J	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	11J	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	5.4	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	306	357.2	85.6	40-130
2-FLUOROBIPHENYL	274	357.2	76.8	45-130
TERPHENYL-D14	312	357.2	87.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/10/1215:51
Sample ID:   SL-584-SA5C-SB-0.0-0.5            Date Analyzed: 05/12/12 01:31
Lab Samp ID: E034-05                            Dilution Factor: 2
Lab File ID: REJ320                             Matrix          : SOIL
Ext Btch ID: SVE020S                            % Moisture     : 13.2
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	23	5.8
ACENAPHTHYLENE	ND	23	5.8
ANTHRACENE	ND	23	5.8
BENZO (A) ANTHRACENE	ND	23	5.8
BENZO (A) PYRENE	ND	23	5.8
BENZO (B) FLUORANTHENE	ND	23	5.8
BENZO (K) FLUORANTHENE	ND	23	5.8
BENZO (G, H, I) PERYLENE	ND	23	5.8
CHRYSENE	ND	23	5.8
DIBENZO (A, H) ANTHRACENE	ND	23	5.8
FLUORANTHENE	ND	23	5.8
FLUORENE	ND	23	5.8
INDENO (1, 2, 3-CD) PYRENE	ND	23	5.8
NAPHTHALENE	ND	23	5.8
PHENANTHRENE	ND	23	5.8
2-METHYLNAPHTHALENE	ND	23	5.8
1-METHYLNAPHTHALENE	ND	23	5.8
N-NITROSODIMETHYLAMINE	ND	23	5.8
PYRENE	ND	23	5.8
AZOBENZENE	ND	12	5.8
BENZO (E) PYRENE	ND	12	5.8
BIPHENYL	ND	12	5.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	293	384.0	76.4	40-130
2-FLUOROBIPHENYL	259	384.0	67.3	45-130
TERPHENYL-D14	316	384.0	82.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/10/1215:51
Sample ID:   SL-606-SA5C-SB-0.0-0.5            Date Analyzed: 05/12/12 01:50
Lab Samp ID: E034-06                           Dilution Factor: 3
Lab File ID: REJ321                             Matrix          : SOIL
Ext Btch ID: SVE020S                            % Moisture     : 4.6
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	31	7.9
ACENAPHTHYLENE	ND	31	7.9
ANTHRACENE	ND	31	7.9
BENZO (A) ANTHRACENE	8.4J	31	7.9
BENZO (A) PYRENE	11J	31	7.9
BENZO (B) FLUORANTHENE	19J	31	7.9
BENZO (K) FLUORANTHENE	ND	31	7.9
BENZO (G, H, I) PERYLENE	13J	31	7.9
CHRYSENE	8.1J	31	7.9
DIBENZO (A, H) ANTHRACENE	ND	31	7.9
FLUORANTHENE	12J	31	7.9
FLUORENE	ND	31	7.9
INDENO (1, 2, 3-CD) PYRENE	ND	31	7.9
NAPHTHALENE	ND	31	7.9
PHENANTHRENE	ND	31	7.9
2-METHYLNAPHTHALENE	ND	31	7.9
1-METHYLNAPHTHALENE	ND	31	7.9
N-NITROSODIMETHYLAMINE	ND	31	7.9
PYRENE	12J	31	7.9
AZOBENZENE	ND	16	7.9
BENZO (E) PYRENE	14J	16	7.9
BIPHENYL	ND	16	7.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	284	349.4	81.2	40-130
2-FLUOROBIPHENYL	259	349.4	74.2	45-130
TERPHENYL-D14	299	349.4	85.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/10/1215:51
Sample ID:   SL-612-SA5C-SB-0.0-0.5            Date Analyzed: 05/12/12 02:09
Lab Samp ID: E034-07                           Dilution Factor: 2
Lab File ID: REJ322                             Matrix          : SOIL
Ext Btch ID: SVE020S                            % Moisture     : 6.7
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.4
ACENAPHTHYLENE	ND	21	5.4
ANTHRACENE	ND	21	5.4
BENZO (A) ANTHRACENE	ND	21	5.4
BENZO (A) PYRENE	7.4J	21	5.4
BENZO (B) FLUORANTHENE	11J	21	5.4
BENZO (K) FLUORANTHENE	ND	21	5.4
BENZO (G, H, I) PERYLENE	6.3J	21	5.4
CHRYSENE	6.4J	21	5.4
DIBENZO (A, H) ANTHRACENE	ND	21	5.4
FLUORANTHENE	13J	21	5.4
FLUORENE	ND	21	5.4
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.4
NAPHTHALENE	ND	21	5.4
PHENANTHRENE	ND	21	5.4
2-METHYLNAPHTHALENE	ND	21	5.4
1-METHYLNAPHTHALENE	ND	21	5.4
N-NITROSODIMETHYLAMINE	ND	21	5.4
PYRENE	12J	21	5.4
AZOBENZENE	ND	11	5.4
BENZO (E) PYRENE	6.8J	11	5.4
BIPHENYL	ND	11	5.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	286	357.2	80.0	40-130
2-FLUOROBIPHENYL	256	357.2	71.7	45-130
TERPHENYL-D14	312	357.2	87.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E034                           Date Extracted: 05/10/1215:51
Sample ID    : MBLK1S                           Date Analyzed: 05/11/12 16:39
Lab Samp ID  : SVE020SB                        Dilution Factor: 1
Lab File ID  : REJ292                           Matrix          : SOIL
Ext Btch ID  : SVE020S                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	276	333.3	82.7	40-130
2-FLUOROBIPHENYL	228	333.3	68.4	45-130
TERPHENYL-D14	299	333.3	89.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE020SB SVE020SL SVE020SC  
LAB FILE ID: REJ292 REJ293 REJ294  
DATE EXTRACTED: 05/10/1215:51 05/10/1215:51 05/10/1215:51 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1216:39 05/11/1216:58 05/11/1217:17 DATE RECEIVED: 05/10/12  
PREP. BATCH: SVE020S SVE020S SVE020S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	318	96	333	294	88	8	10-130	50
Acenaphthylene	ND	333	348	104	333	321	96	8	20-130	50
Anthracene	ND	333	292	87	333	282	85	3	20-130	50
Benzo (a) anthracene	ND	333	350	105	333	344	103	2	30-130	50
Benzo (a) pyrene	ND	333	375	113	333	357	107	5	30-130	50
Benzo (b) fluoranthene	ND	333	390	117	333	373	112	5	40-130	50
Benzo (k) fluoranthene	ND	333	378	113	333	356	107	6	30-140	50
Benzo (g, h, i) perylene	ND	333	411	123	333	388	116	6	30-140	50
Chrysene	ND	333	351	105	333	324	97	8	30-140	50
Dibenzo (a, h) anthracene	ND	333	414	124	333	392	118	5	40-140	50
Fluoranthene	ND	333	351	105	333	337	101	4	30-130	50
Fluorene	ND	333	351	105	333	317	95	10	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	416	125	333	394	118	5	20-160	50
Naphthalene	ND	333	274	82	333	264	79	4	10-130	50
Phenanthrene	ND	333	292	88	333	282	84	4	20-130	50
2-Methylnaphthalene	ND	333	310	93	333	298	89	4	30-150	50
1-Methylnaphthalene	ND	333	309	93	333	296	89	4	30-150	50
N-Nitrosodimethylamine	ND	333	313	94	333	296	89	6	30-150	50
Pyrene	ND	333	336	101	333	324	97	4	20-150	50
Azobenzene	ND	333	304	91	333	289	87	5	30-150	50
Benzo (e) pyrene	ND	333	345	104	333	327	98	6	30-150	50
Biphenyl	ND	333	281	84	333	261	78	7	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	304	91	333	269	81	40-130
2-Fluorobiphenyl	333	259	78	333	229	69	45-130
Terphenyl-d14	333	320	96	333	290	87	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-603-SA5C-SB-0.0-0.5  
LAB SAMP ID: E034-03 E034-03M E034-03S  
LAB FILE ID: REJ316 REJ317 REJ318  
DATE EXTRACTED: 05/10/1215:51 05/10/1215:51 05/10/1215:51 DATE COLLECTED: 05/03/12  
DATE ANALYZED: 05/12/1200:15 05/12/1200:34 05/12/1200:53 DATE RECEIVED: 05/03/12  
PREP. BATCH: SVE020S SVE020S SVE020S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	362	290	80	362	333	92	14	10-130	50
Acenaphthylene	ND	362	316	87	362	366	101	15	20-130	50
Anthracene	ND	362	301	83	362	317	87	5	20-130	50
Benzo (a) anthracene	4.23J	362	310	85	362	318	87	2	30-130	50
Benzo (a) pyrene	5.31J	362	357	97	362	373	101	4	30-130	50
Benzo (b) fluoranthene	7.68J	362	378	102	362	400	108	6	30-130	50
Benzo (k) fluoranthene	ND	362	352	97	362	363	100	3	30-130	50
Benzo (g, h, i) perylene	4.27J	362	371	101	362	390	106	5	30-140	50
Chrysene	4.68J	362	292	79	362	303	82	4	20-130	50
Dibenzo (a, h) anthracene	ND	362	380	105	362	396	109	4	30-130	50
Fluoranthene	11.0	362	343	92	362	354	95	3	30-150	50
Fluorene	ND	362	329	91	362	366	101	11	20-130	50
Indeno (1, 2, 3-cd) pyrene	2.90J	362	376	103	362	394	108	5	20-160	50
Naphthalene	ND	362	192	53	362	260	72	30	10-130	50
Phenanthrene	4.77J	362	302	82	362	317	86	5	20-130	50
2-Methylnaphthalene	ND	362	249	69	362	317	87	24	30-150	50
1-Methylnaphthalene	ND	362	259	71	362	318	88	21	30-150	50
N-Nitrosodimethylamine	ND	362	210	58	362	298	82	34	20-150	50
Pyrene	10.5J	362	327	87	362	336	90	3	10-160	50
Azobenzene	ND	362	279	77	362	311	86	11	30-150	50
Benzo (e) pyrene	4.28J	362	329	90	362	358	98	8	30-150	50
Biphenyl	ND	362	241	66	362	302	83	23	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	362	211	58	362	298	82	40-130
2-Fluorobiphenyl	362	218	60	362	269	74	45-130
Terphenyl-d14	362	301	83	362	307	85	45-135

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                       Date Received: 05/03/12
Batch No.    : 12E034                             Date Extracted: 05/07/12 13:00
Sample ID    : EB-050312                          Date Analyzed: 05/08/12 15:44
Lab Samp ID  : E034-02                             Dilution Factor: .98
Lab File ID  : LE08020A                           Matrix          : WATER
Ext Btch ID  : DSE008W                             % Moisture      : NA
Calib. Ref.  : LE08010A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.098	0.049
EFH(C12-C14)	ND	0.098	0.049
EFH(C15-C20)	ND	0.098	0.049
EFH(C21-C30)	ND	0.098	0.049
EFH(C30-C40)	ND	0.098	0.049
TOTAL EFH(C8-C40)	ND	0.098	0.049

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.712	0.9800	72.7	40-130
HEXACOSANE	0.204	0.2450	83.2	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E034                           Date Extracted: 05/07/12 13:00
Sample ID    : MBLK1W                           Date Analyzed: 05/08/12 11:32
Lab Samp ID  : DSE008WB                         Dilution Factor: 1
Lab File ID  : LE08005A                         Matrix          : WATER
Ext Btch ID  : DSE008W                          % Moisture     : NA
Calib. Ref. : LE08003A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.798	1.000	79.8	40-130
HEXACOSANE	0.224	0.2500	89.8	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSE008WB DSE008WL DSE008WC  
LAB FILE ID: LE08005A LE08008A LE08009A  
DATE EXTRACTED: 05/07/1213:00 05/07/1213:00 05/07/1213:00 DATE COLLECTED: NA  
DATE ANALYZED: 05/08/1211:32 05/08/1212:22 05/08/1212:39 DATE RECEIVED: 05/07/12  
PREP. BATCH: DSE008W DSE008W DSE008W  
CALIB. REF: LE08003A LE08003A LE08003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.96	99	5.00	4.77	95	4	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.852	85	1.00	0.878	88	40-130
Hexacosane	0.250	0.237	95	0.250	0.234	93	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                       Date Received: 05/03/12
Batch No.    : 12E034                             Date Extracted: 05/10/12 10:20
Sample ID:   SL-602-SA5C-SB-0.0-0.5              Date Analyzed: 05/11/12 03:08
Lab Samp ID: E034-01                              Dilution Factor: 1
Lab File ID: LE10043A                             Matrix          : SOIL
Ext Btch ID: DSE013S                              % Moisture     : 8.1
Calib. Ref.: LE10039A                             Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	13	5.4	2.7
EFH(C30-C40)	16	11	5.4
TOTAL EFH(C8-C40)	29	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.5	108.8	66.7	50-150
HEXACOSANE	20.7	27.20	76.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/10/12 10:20
Sample ID    : SL-603-SA5C-SB-0.0-0.5          Date Analyzed: 05/11/12 03:25
Lab Samp ID  : E034-03                          Dilution Factor: 1
Lab File ID  : LE10044A                         Matrix          : SOIL
Ext Btch ID  : DSE013S                          % Moisture     : 8.0
Calib. Ref.  : LE10039A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	14	5.4	2.7
EFH(C30-C40)	18	11	5.4
TOTAL EFH(C8-C40)	32	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.5	108.7	68.5	50-150
HEXACOSANE	21.1	27.17	77.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/10/12 10:20
Sample ID    : SL-903-SA5C-SB-0.0-0.5          Date Analyzed: 05/11/12 04:16
Lab Samp ID  : E034-04                           Dilution Factor: 1
Lab File ID  : LE10047A                          Matrix          : SOIL
Ext Btch ID  : DSE013S                           % Moisture     : 6.7
Calib. Ref. : LE10039A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	9.6	5.4	2.7
EFH(C30-C40)	31	11	5.4
TOTAL EFH(C8-C40)	41	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.5	107.2	67.6	50-150
HEXACOSANE	20.8	26.80	77.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/10/12 10:20
Sample ID:   SL-584-SA5C-SB-0.0-0.5           Date Analyzed: 05/11/12 04:33
Lab Samp ID: E034-05                           Dilution Factor: 1
Lab File ID: LE10048A                          Matrix          : SOIL
Ext Btch ID: DSE013S                           % Moisture     : 13.2
Calib. Ref.: LE10039A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	11	5.8	2.9
EFH(C30-C40)	28	12	5.8
TOTAL EFH(C8-C40)	39	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.2	115.2	67.0	50-150
HEXACOSANE	22.1	28.80	76.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/10/12 10:20
Sample ID    : SL-606-SA5C-SB-0.0-0.5          Date Analyzed: 05/11/12 05:07
Lab Samp ID  : E034-06                           Dilution Factor: 1
Lab File ID  : LE10050A                          Matrix          : SOIL
Ext Btch ID  : DSE013S                           % Moisture     : 4.6
Calib. Ref.  : LE10039A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.2	2.6
EFH(C12-C14)	ND	5.2	2.6
EFH(C15-C20)	ND	5.2	2.6
EFH(C21-C30)	23	5.2	2.6
EFH(C30-C40)	53	10	5.2
TOTAL EFH(C8-C40)	76	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	70.1	104.8	66.9	50-150
HEXACOSANE	21.7	26.21	82.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/10/12 10:20
Sample ID:   SL-612-SA5C-SB-0.0-0.5            Date Analyzed: 05/11/12 04:50
Lab Samp ID: E034-07                             Dilution Factor: 1
Lab File ID: LE10049A                           Matrix          : SOIL
Ext Btch ID: DSE013S                             % Moisture     : 6.7
Calib. Ref.: LE10039A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	21	5.4	2.7
EFH(C30-C40)	32	11	5.4
TOTAL EFH(C8-C40)	53	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.0	107.2	69.0	50-150
HEXACOSANE	22.9	26.80	85.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E034                           Date Extracted: 05/10/12 10:20
Sample ID    : MBLK1S                           Date Analyzed: 05/11/12 00:02
Lab Samp ID  : DSE013SB                         Dilution Factor: 1
Lab File ID  : LE10032A                         Matrix          : SOIL
Ext Btch ID  : DSE013S                          % Moisture      : NA
Calib. Ref.  : LE10027A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.3	100.0	71.3	50-150
HEXACOSANE	18.7	25.00	74.9	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE013SB DSE013SL DSE013SC  
LAB FILE ID: LE10032A LE10030A LE10031A  
DATE EXTRACTED: 05/10/1210:20 05/10/1210:20 05/10/1210:20 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1200:02 05/10/1223:28 05/10/1223:45 DATE RECEIVED: 05/10/12  
PREP. BATCH: DSE013S DSE013S DSE013S  
CALIB. REF: LE10027A LE10027A LE10027A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	503	101	500	504	101	0	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	79.3	79	100	76.1	76	50-150
Hexacosane	25.0	20.3	81	25.0	19.4	78	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-603-SA5C-SB-0.0-0.5  
LAB SAMP ID: E034-03 E034-03M E034-03S  
LAB FILE ID: LE10044A LE10045A LE10046A  
DATE EXTRACTED: 05/10/1210:20 05/10/1210:20 05/10/1210:20 DATE COLLECTED: 05/03/12  
DATE ANALYZED: 05/11/1203:25 05/11/1203:42 05/11/1203:59 DATE RECEIVED: 05/03/12  
PREP. BATCH: DSE013S DSE013S DSE013S  
CALIB. REF: LE10039A LE10039A LE10039A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	31.9	543	553	96	543	563	98	2	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	109	82.0	75	109	85.2	78	50-150
Hexacosane	27.2	21.1	78	27.2	21.9	81	50-150

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/08/12 13:00
Sample ID:   EB-050312                          Date Analyzed: 05/11/12 20:48
Lab Samp ID: E034-02                            Dilution Factor: 1.06
Lab File ID: SE11008A                           Matrix          : WATER
Ext Btch ID: CPE011W                             % Moisture     : NA
Calib. Ref.: SE11002A                           Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.1	0.53   0.53
AROCLOR 1221	(ND)   ND	1.1	0.53   0.53
AROCLOR 1232	(ND)   ND	1.1	0.53   0.53
AROCLOR 1242	(ND)   ND	1.1	0.53   0.53
AROCLOR 1248	(ND)   ND	1.1	0.53   0.53
AROCLOR 1254	(ND)   ND	1.1	0.53   0.53
AROCLOR 1260	(ND)   ND	1.1	0.53   0.53
AROCLOR 1262	(ND)   ND	1.1	0.53   0.53
AROCLOR 1268	(ND)   ND	1.1	0.53   0.53
AROCLOR 5432	(ND)   ND	2.1	1.1   1.1
AROCLOR 5442	(ND)   ND	2.1	1.1   1.1
AROCLOR 5460	(ND)   ND	2.1	1.1   1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	0.4105   (0.4109)	0.4240	96.8   (96.9)	45-120
TETRACHLORO-M-XYLENE	0.2906   (0.3291)	0.4240	68.5   (77.6)	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/08/12
Batch No.    : 12E034                             Date Extracted: 05/08/12 13:00
Sample ID    : MBLK1W                             Date Analyzed: 05/11/12 19:05
Lab Samp ID  : 60E011WB                          Dilution Factor: 1
Lab File ID  : SE11005A                          Matrix          : WATER
Ext Btch ID  : CPE011W                           % Moisture      : NA
Calib. Ref.  : SE11002A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.3941)   0.3936	0.4000	(98.5)   98.4	45-120
TETRACHLORO-M-XYLENE	0.3019   (0.3043)	0.4000	75.5   (76.1)	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: 60E011WB 60E011WX 60E011WY  
LAB FILE ID: SE11005A SE11006A SE11007A  
DATE EXTRACTED: 05/08/1213:00 05/08/1213:00 05/08/1213:00 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1219:05 05/11/1219:39 05/11/1220:13 DATE RECEIVED: 05/08/12  
PREP. BATCH: CPE011W CPE011W CPE011W  
CALIB. REF: SE11002A SE11002A SE11002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	4.56   (4.74)	91   (95)	5.00	4.60   (4.73)	92   (95)	1   (0)	50-130	30
Aroclor 1260	(ND)   ND	5.00	(4.97)   4.87	(99)   97	5.00	(5.09)   5.02	(102)   100	(2)   3	60-150	30
Aroclor 5460	(ND)   ND	2.50	(2.88)   2.63	(115)   105	2.50	(3.06)   2.80	(122)   112	(6)   6	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	(0.3922)   0.3903	(98.1)   97.6	0.4000	(0.4037)   0.4029	(101)   101	45-120
Tetrachloro-m-xylene	0.4000	(0.3162)   0.3100	(79.0)   77.5	0.4000	(0.3190)   0.3150	(79.8)   78.7	30-140

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/02/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/09/12 13:09
Sample ID    : SL-602-SA5C-SB-0.0-0.5          Date Analyzed: 05/14/12 19:43
Lab Samp ID  : E034-01W                         Dilution Factor: 1
Lab File ID  : SE14015A                        Matrix          : SOIL
Ext Btch ID  : CPE012S                          % Moisture     : 8.1
Calib. Ref.  : SE14003A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.92   (15.66)	14.50	96.0   (108)	45-120
TETRACHLORO-M-XYLENE	(15.08)   15.06	14.50	(104)   104	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/03/12
Project    : SSFL PHASE 3                       Date Received: 05/03/12
Batch No.  : 12E034                             Date Extracted: 05/09/12 13:09
Sample ID  : SL-603-SA5C-SB-0.0-0.5           Date Analyzed: 05/14/12 20:18
Lab Samp ID: E034-03W                           Dilution Factor: 1
Lab File ID: SE14016A                          Matrix          : SOIL
Ext Btch ID: CPE012S                            % Moisture     : 8.0
Calib. Ref.: SE14003A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.78   (15.39)	14.49	95.1   (106)	45-120
TETRACHLORO-M-XYLENE	(16.07)   15.72	14.49	(111)   109	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/09/12 13:09
Sample ID    : SL-903-SA5C-SB-0.0-0.5          Date Analyzed: 05/14/12 22:00
Lab Samp ID  : E034-04                           Dilution Factor: 1
Lab File ID  : SE14019A                          Matrix          : SOIL
Ext Btch ID  : CPE012S                            % Moisture     : 6.7
Calib. Ref.  : SE14003A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.58   (14.93)	14.29	95.1   (105)	45-120
TETRACHLORO-M-XYLENE	14.67   (14.71)	14.29	103   (103)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/09/12 13:09
Sample ID    : SL-584-SA5C-SB-0.0-0.5          Date Analyzed: 05/14/12 22:34
Lab Samp ID  : E034-05                          Dilution Factor: 1
Lab File ID  : SE14020A                        Matrix          : SOIL
Ext Btch ID  : CPE012S                         % Moisture     : 13.2
Calib. Ref.  : SE14003A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	14.35   (15.51)	15.36	93.4   (101)	45-120
TETRACHLORO-M-XYLENE	(15.39)   15.38	15.36	(100)   100	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/09/12 13:09
Sample ID:   SL-606-SA5C-SB-0.0-0.5            Date Analyzed: 05/14/12 23:09
Lab Samp ID: E034-06                             Dilution Factor: 1
Lab File ID: SE14021A                           Matrix          : SOIL
Ext Btch ID: CPE012S                            % Moisture     : 4.6
Calib. Ref.: SE14003A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	33   (42)	21	10   10	
AROCLOR 1260	(26)   22	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	12.50   (14.30)	13.97	89.5   (102)	45-120
TETRACHLORO-M-XYLENE	(14.82)   14.41	13.97	(106)   103	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/03/12
Batch No.    : 12E034                           Date Extracted: 05/09/12 13:09
Sample ID:   SL-612-SA5C-SB-0.0-0.5           Date Analyzed: 05/14/12 23:43
Lab Samp ID: E034-07                           Dilution Factor: 1
Lab File ID: SE14022A                          Matrix          : SOIL
Ext Btch ID: CPE012S                           % Moisture     : 6.7
Calib. Ref.: SE14003A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	31   (38)	21	11   11	
AROCLOR 1260	(23)   17J	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.35   (14.89)	14.29	93.4   (104)	45-120
TETRACHLORO-M-XYLENE	14.06   (14.82)	14.29	98.4   (104)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/09/12
Batch No.    : 12E034                             Date Extracted: 05/09/12 13:09
Sample ID    : MBLK1S                             Date Analyzed: 05/11/12 21:22
Lab Samp ID  : 60E012SB                           Dilution Factor: 1
Lab File ID  : SE11009A                           Matrix          : SOIL
Ext Btch ID  : CPE012S                             % Moisture      : NA
Calib. Ref.  : SE11002A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.69)   13.67	13.33	(103)   103	45-120
TETRACHLORO-M-XYLENE	(12.90)   12.68	13.33	(96.8)   95.1	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E012SB 60E012SL 60E012SC  
LAB FILE ID: SE11009A SE11010A SE11011A  
DATE EXTRACTED: 05/09/1213:09 05/09/1213:09 05/09/1213:09 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1221:22 05/11/1221:56 05/11/1222:30 DATE RECEIVED: 05/09/12  
PREP. BATCH: CPE012S CPE012S CPE012S  
CALIB. REF: SE11002A SE11002A SE11002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	165   (174)	99   (104)	167	161   (174)	97   (104)	2   (0)	50-130	50
Aroclor 1260	(ND)   ND	167	(178)   177	(107)   106	167	(178)   178	(107)   107	(0)   1	60-150	50
Aroclor 5460	(ND)   ND	83.3	(102)   94.2	(122)   113	83.3	(102)   72.8	(122)   87	(0)   26	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	13.51   (13.53)	101   (101)	13.33	13.24   (13.32)	99.4   (99.9)	45-120
Tetrachloro-m-xylene	13.33	(12.67)   12.51	(95.0)   93.8	13.33	(12.37)   12.18	(92.8)   91.4	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 8.0  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-603-SA5C-SB-0.0-0-0.5  
LAB SAMP ID: E034-03W E034-03M E034-03S  
LAB FILE ID: SE14016A SE14017A SE14018A  
DATE EXTRACTED: 05/09/1213:09 05/09/1213:09 05/09/1213:09 DATE COLLECTED: 05/03/12  
DATE ANALYZED: 05/14/1220:18 05/14/1220:52 05/14/1221:26 DATE RECEIVED: 05/03/12  
PREP. BATCH: CPE012S CPE012S CPE012S  
CALIB. REF: SE14003A SE14003A SE14003A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	181	(209)   188	(115)   104	181	(202)   188	(111)   104	(3)   0	20-160	50
Aroclor 1260	(ND)   ND	181	(211)   207	(116)   114	181	204   (205)	113   (113)	3   (1)	20-160	50
Aroclor 5460	(ND)   ND	90.6	(93.2)   81.8	(103)   90	90.6	(88.4)   77.9	(98)   86	(5)   5	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.49	13.62   (15.25)	94.0   (105)	14.49	13.15   (14.78)	90.8   (102)	45-120
Tetrachloro-m-xylene	14.49	15.05   (15.10)	104   (104)	14.49	14.69   (14.71)	101   (101)	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/03/12
Project    : SSFL PHASE 3                       Date Received: 05/03/12
SDG NO.    : 12E034                             Date Extracted: 05/11/12 10:15
Sample ID  : EB-050312                           Date Analyzed: 05/15/12 17:03
Lab Samp ID: E034-02                             Dilution Factor: 1
Lab File ID: 98E08032                           Matrix          : WATER
Ext Btch ID: IME015W                             % Moisture     : NA
Calib. Ref.: 98E08030                           Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	0.0208J	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	0.0374J	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.000802J	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	0.000267J	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/11/12
SDG NO.    : 12E034                           Date Extracted: 05/11/12 10:15
Sample ID:  MBLK1W                             Date Analyzed: 05/15/12 17:08
Lab Samp ID: IME015WB                         Dilution Factor: 1
Lab File ID: 98E08033                         Matrix          : WATER
Ext Btch ID: IME015W                           % Moisture     : NA
Calib. Ref.: 98E08030                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E034  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IME015WB IME015WL IME015WC  
LAB FILE ID: 98E08033 98E08034 98E08035  
DATIME EXTRACTD: 05/11/1210:15 05/11/1210:15 05/11/1210:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/15/1217:08 05/15/1217:12 05/15/1217:17 DATE RECEIVED: 05/11/12  
PREP. BATCH: IME015W IME015W IME015W  
CALIB. REF: 98E08030 98E08030 98E08030

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.58	103	2.50	2.55	102	1	80-120	20
Antimony	ND	0.0250	0.0260	104	0.0250	0.0254	101	2	80-120	20
Arsenic	ND	0.0250	0.0250	100	0.0250	0.0251	101	1	80-120	20
Barium	ND	0.0250	0.0266	107	0.0250	0.0257	103	4	80-120	20
Beryllium	ND	0.0250	0.0255	102	0.0250	0.0251	100	2	80-120	20
Boron	ND	0.0250	0.0264	106	0.0250	0.0261	104	1	80-120	20
Cadmium	ND	0.0250	0.0257	103	0.0250	0.0251	100	2	80-120	20
Calcium	ND	2.50	2.76	111	2.50	2.73	109	1	80-120	20
Chromium	ND	0.0250	0.0251	100	0.0250	0.0246	98	2	80-120	20
Cobalt	ND	0.0250	0.0254	101	0.0250	0.0251	100	1	80-120	20
Copper	ND	0.0250	0.0254	101	0.0250	0.0247	99	2	80-120	20
Iron	ND	2.50	2.68	107	2.50	2.64	105	2	80-120	20
Lead	ND	0.0250	0.0257	103	0.0250	0.0252	101	2	80-120	20
Magnesium	ND	2.50	2.55	102	2.50	2.53	101	1	80-120	20
Manganese	ND	0.0250	0.0257	103	0.0250	0.0253	101	2	80-120	20
Molybdenum	ND	0.0250	0.0256	102	0.0250	0.0250	100	2	80-120	20
Nickel	ND	0.0250	0.0252	101	0.0250	0.0245	98	3	80-120	20
Potassium	ND	2.50	2.77	111	2.50	2.71	108	2	80-120	20
Selenium	ND	0.0250	0.0257	103	0.0250	0.0256	102	0	80-120	20
Silver	ND	0.0250	0.0262	105	0.0250	0.0259	103	1	80-120	20
Sodium	ND	2.50	2.60	104	2.50	2.56	102	2	80-120	20
Strontium	ND	0.0250	0.0261	104	0.0250	0.0255	102	2	80-120	20
Thallium	ND	0.0250	0.0254	102	0.0250	0.0251	100	1	80-120	20
Tin	ND	0.0250	0.0266	106	0.0250	0.0259	104	3	80-120	20
Titanium	ND	0.0250	0.0259	104	0.0250	0.0257	103	1	80-120	20
Vanadium	ND	0.0250	0.0251	101	0.0250	0.0248	99	1	80-120	20
Zinc	ND	0.0500	0.0531	106	0.0500	0.0515	103	3	80-120	20
Lithium	ND	0.0250	0.0250	100	0.0250	0.0241	96	4	80-120	20
Phosphorus	ND	0.250	0.259	103	0.250	0.254	102	2	80-120	20
Zirconium	ND	0.0250	0.0255	102	0.0250	0.0256	102	0	80-120	20

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/03/12
Project     : SSFL PHASE 3                     Date Received: 05/03/12
SDG NO.    : 12E034                            Date Extracted: 05/11/12 10:15
Sample ID:  SL-603-SA5C-SB-0.0-0.5           Date Analyzed: 05/15/12 18:22
Lab Samp ID: E034-03                          Dilution Factor: 0.985
Lab File ID: 98E08044                         Matrix          : SOIL
Ext Btch ID: IME014S                          % Moisture     : 8.0
Calib. Ref.: 98E08038                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8390	107	12.8
Antimony	0.266J	0.535	0.107
Arsenic	4.59	0.535	0.214
Barium	80.6	0.535	0.214
Beryllium	0.475J	0.535	0.0535
Boron	ND	5.35	2.68
Cadmium	0.288J	0.535	0.0535
Calcium	2370	21.4	10.7
Chromium	13.9	0.535	0.214
Cobalt	4.39	0.535	0.0535
Copper	7.39	0.535	0.214
Iron	18200	107	10.7
Lead	10.6	0.535	0.107
Magnesium	2840	10.7	5.35
Manganese	234	0.535	0.268
Molybdenum	1.40	0.535	0.0535
Nickel	8.50	0.535	0.214
Potassium	2700	107	32.1
Selenium	ND	0.535	0.214
Silver	ND	0.535	0.0535
Sodium	63.5J	107	53.5
Strontium	16.9	0.535	0.268
Thallium	0.260J	0.428	0.0535
Tin	ND	10.7	5.35
Titanium	628	1.07	0.535
Vanadium	26.5	0.535	0.0535
Zinc	45.4	5.35	1.61
Lithium	13.7	2.14	1.07
Phosphorus	273	12.8	6.42
Zirconium	ND	5.35	2.68

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/03/12
Project     : SSFL PHASE 3                     Date Received: 05/03/12
SDG NO.    : 12E034                           Date Extracted: 05/11/12 10:15
Sample ID   : SL-903-SA5C-SB-0.0-0.5         Date Analyzed: 05/15/12 18:40
Lab Samp ID: E034-04                           Dilution Factor: 0.976
Lab File ID: 98E08048                          Matrix          : SOIL
Ext Btch ID: IME014S                           % Moisture     : 6.7
Calib. Ref.: 98E08038                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10100	105	12.6
Antimony	0.242J	0.523	0.105
Arsenic	3.08	0.523	0.209
Barium	91.1	0.523	0.209
Beryllium	0.426J	0.523	0.0523
Boron	ND	5.23	2.62
Cadmium	0.283J	0.523	0.0523
Calcium	2790	20.9	10.5
Chromium	15.4	0.523	0.209
Cobalt	5.06	0.523	0.0523
Copper	8.88	0.523	0.209
Iron	16600	105	10.5
Lead	12.6	0.523	0.105
Magnesium	3360	10.5	5.23
Manganese	259	0.523	0.262
Molybdenum	0.442J	0.523	0.0523
Nickel	9.21	0.523	0.209
Potassium	3110	105	31.4
Selenium	ND	0.523	0.209
Silver	ND	0.523	0.0523
Sodium	74.8J	105	52.3
Strontium	19.0	0.523	0.262
Thallium	0.230J	0.418	0.0523
Tin	ND	10.5	5.23
Titanium	725	1.05	0.523
Vanadium	27.7	0.523	0.0523
Zinc	55.5	5.23	1.57
Lithium	16.4	2.09	1.05
Phosphorus	277	12.6	6.28
Zirconium	ND	5.23	2.62

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/03/12
Project    : SSFL PHASE 3                     Date Received: 05/03/12
SDG NO.    : 12E034                           Date Extracted: 05/11/12 10:15
Sample ID: SL-584-SA5C-SB-0.0-0.5           Date Analyzed: 05/15/12 19:03
Lab Samp ID: E034-05                         Dilution Factor: 0.980
Lab File ID: 98E08053                        Matrix          : SOIL
Ext Btch ID: IME014S                          % Moisture     : 13.2
Calib. Ref.: 98E08050                        Instrument ID   : T-198
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10800	113	13.5
Antimony	0.178J	0.565	0.113
Arsenic	4.11	0.565	0.226
Barium	94.4	0.565	0.226
Beryllium	0.496J	0.565	0.0565
Boron	ND	5.65	2.82
Cadmium	0.284J	0.565	0.0565
Calcium	5200	22.6	11.3
Chromium	15.0	0.565	0.226
Cobalt	6.33	0.565	0.0565
Copper	8.82	0.565	0.226
Iron	15300	113	11.3
Lead	8.55	0.565	0.113
Magnesium	2960	11.3	5.65
Manganese	275	0.565	0.282
Molybdenum	0.387J	0.565	0.0565
Nickel	9.75	0.565	0.226
Potassium	2660	113	33.9
Selenium	ND	0.565	0.226
Silver	ND	0.565	0.0565
Sodium	66.0J	113	56.5
Strontium	27.0	0.565	0.282
Thallium	0.257J	0.452	0.0565
Tin	ND	11.3	5.65
Titanium	519	1.13	0.565
Vanadium	31.2	0.565	0.0565
Zinc	40.2	5.65	1.69
Lithium	10.6	2.26	1.13
Phosphorus	154	13.5	6.77
Zirconium	ND	5.65	2.82

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/03/12
Project     : SSFL PHASE 3                     Date Received: 05/03/12
SDG NO.    : 12E034                            Date Extracted: 05/11/12 10:15
Sample ID: SL-606-SA5C-SB-0.0-0.5             Date Analyzed: 05/15/12 19:08
Lab Samp ID: E034-06                           Dilution Factor: 0.962
Lab File ID: 98E08054                          Matrix          : SOIL
Ext Btch ID: IME014S                            % Moisture     : 4.6
Calib. Ref.: 98E08050                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	7580	101	12.1
Antimony	0.389J	0.504	0.101
Arsenic	2.50	0.504	0.202
Barium	61.4	0.504	0.202
Beryllium	0.282J	0.504	0.0504
Boron	ND	5.04	2.52
Cadmium	0.292J	0.504	0.0504
Calcium	3850	20.2	10.1
Chromium	16.2	0.504	0.202
Cobalt	3.82	0.504	0.0504
Copper	15.7	0.504	0.202
Iron	15300	101	10.1
Lead	17.3	0.504	0.101
Magnesium	2790	10.1	5.04
Manganese	171	0.504	0.252
Molybdenum	2.60	0.504	0.0504
Nickel	9.91	0.504	0.202
Potassium	2250	101	30.3
Selenium	ND	0.504	0.202
Silver	ND	0.504	0.0504
Sodium	75.0J	101	50.4
Strontium	14.3	0.504	0.252
Thallium	0.168J	0.403	0.0504
Tin	ND	10.1	5.04
Titanium	591	1.01	0.504
Vanadium	21.3	0.504	0.0504
Zinc	60.5	5.04	1.51
Lithium	12.5	2.02	1.01
Phosphorus	299	12.1	6.05
Zirconium	ND	5.04	2.52

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/03/12
Project    : SSFL PHASE 3                       Date Received: 05/03/12
SDG NO.    : 12E034                             Date Extracted: 05/11/12 10:15
Sample ID: SL-612-SA5C-SB-0.0-0.5             Date Analyzed: 05/15/12 19:12
Lab Samp ID: E034-07                           Dilution Factor: 0.980
Lab File ID: 98E08055                           Matrix          : SOIL
Ext Btch ID: IME014S                             % Moisture      : 6.7
Calib. Ref.: 98E08050                           Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12100	105	12.6
Antimony	0.312J	0.525	0.105
Arsenic	4.03	0.525	0.210
Barium	98.4	0.525	0.210
Beryllium	0.516J	0.525	0.0525
Boron	ND	5.25	2.63
Cadmium	0.410J	0.525	0.0525
Calcium	3340	21.0	10.5
Chromium	19.7	0.525	0.210
Cobalt	5.59	0.525	0.0525
Copper	10.5	0.525	0.210
Iron	19900	105	10.5
Lead	22.3	0.525	0.105
Magnesium	4140	10.5	5.25
Manganese	269	0.525	0.263
Molybdenum	0.547	0.525	0.0525
Nickel	10.9	0.525	0.210
Potassium	3640	105	31.5
Selenium	ND	0.525	0.210
Silver	ND	0.525	0.0525
Sodium	68.0J	105	52.5
Strontium	19.7	0.525	0.263
Thallium	0.242J	0.420	0.0525
Tin	ND	10.5	5.25
Titanium	785	1.05	0.525
Vanadium	33.4	0.525	0.0525
Zinc	106	5.25	1.58
Lithium	19.7	2.10	1.05
Phosphorus	448	12.6	6.30
Zirconium	ND	5.25	2.63

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/11/12
SDG NO.    : 12E034                           Date Extracted: 05/11/12 10:15
Sample ID   : MBLK1S                           Date Analyzed: 05/15/12 18:04
Lab Samp ID: IME014SB                         Dilution Factor: 1
Lab File ID: 98E08040                         Matrix          : SOIL
Ext Btch ID: IME014S                          % Moisture     : NA
Calib. Ref.: 98E08038                         Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E034  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILTN FACTR: 0.985 0.990 0.985  
SAMPLE ID: SL-603-SA5C-SB-0.0-0.5  
CONTROL NO.: E034-03 E034-03M E034-03S  
LAB FILE ID: 98E08044 98E08046 98E08047  
DATIME EXTRACTD: 05/11/1210:15 05/11/1210:15 05/11/1210:15 DATE COLLECTED: 05/03/12  
DATIME ANALYZD: 05/15/1218:22 05/15/1218:31 05/15/1218:36 DATE RECEIVED: 05/03/12  
PREP. BATCH: IME014S IME014S IME014S  
CALIB. REF: 98E08038 98E08038 98E08038

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	8390	2690	9330	35*	2680	9960	59*	7	75-125	20
Antimony	0.266J	26.9	15.9	58*	26.8	15.5	57*	3	75-125	20
Arsenic	4.59	26.9	22.2	65*	26.8	21.5	63*	3	75-125	20
Barium	80.6	26.9	94.0	50*	26.8	103	85	9	75-125	20
Beryllium	0.475J	26.9	19.3	70*	26.8	19.0	69*	2	75-125	20
Boron	ND	26.9	22.3	83	26.8	21.6	81	3	75-125	20
Cadmium	0.288J	26.9	23.4	86	26.8	22.5	83	4	75-125	20
Calcium	2370	2690	4170	67*	2680	4380	75	5	75-125	20
Chromium	13.9	26.9	29.3	57*	26.8	29.1	57*	0	75-125	20
Cobalt	4.39	26.9	22.3	67*	26.8	22.4	67*	1	75-125	20
Copper	7.39	26.9	24.5	63*	26.8	24.8	65*	1	75-125	20
Iron	18200	2690	14700	-130*	2680	15900	-87*	8	75-125	20
Lead	10.6	26.9	31.2	77	26.8	31.0	76	1	75-125	20
Magnesium	2840	2690	4500	62*	2680	4770	72*	6	75-125	20
Manganese	234	26.9	221	-50*	26.8	244	38*	10	75-125	20
Molybdenum	1.40	26.9	20.7	72*	26.8	20.3	71*	2	75-125	20
Nickel	8.50	26.9	25.0	62*	26.8	25.2	62*	0	75-125	20
Potassium	2700	2690	4750	76	2680	5020	87	5	75-125	20
Selenium	ND	26.9	20.5	76	26.8	19.8	74*	3	75-125	20
Silver	ND	26.9	24.7	92	26.8	24.1	90	3	75-125	20
Sodium	63.5J	2690	2080	75	2680	2120	77	1	75-125	20
Strontium	16.9	26.9	34.6	66*	26.8	35.6	70*	3	75-125	20
Thallium	0.260J	26.9	23.5	86	26.8	22.5	83	4	75-125	20
Tin	ND	26.9	24.1	90	26.8	23.7	89	2	75-125	20
Titanium	628	26.9	592	-132*	26.8	645	64*	9	75-125	20
Vanadium	26.5	26.9	40.6	53*	26.8	42.0	58*	3	75-125	20
Zinc	45.4	53.8	86.2	76	53.5	88.4	80	3	75-125	20
Lithium	13.7	26.9	34.5	77	26.8	34.9	79	1	75-125	20
Phosphorus	273	269	441	62*	268	455	68*	3	75-125	20
Zirconium	ND	26.9	9.98	37*	26.8	10.2	38*	3	75-125	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E034  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME014SB IME014SL IME014SC  
LAB FILE ID: 98E08040 98E08041 98E08042  
DATIME EXTRACTD: 05/11/1210:15 05/11/1210:15 05/11/1210:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/15/1218:04 05/15/1218:09 05/15/1218:13 DATE RECEIVED: 05/11/12  
PREP. BATCH: IME014S IME014S IME014S  
CALIB. REF: 98E08038 98E08038 98E08038

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2150	86	2500	2450	98	13	80-120	20
Antimony	ND	25.0	21.4	85	25.0	24.3	97	13	80-120	20
Arsenic	ND	25.0	21.2	85	25.0	24.0	96	12	80-120	20
Barium	ND	25.0	22.0	88	25.0	25.1	100	13	80-120	20
Beryllium	ND	25.0	20.8	83	25.0	24.1	96	15	80-120	20
Boron	ND	25.0	22.3	89	25.0	24.7	99	10	80-120	20
Cadmium	ND	25.0	22.7	91	25.0	24.0	96	6	80-120	20
Calcium	ND	2500	2250	90	2500	2600	104	14	80-120	20
Chromium	ND	25.0	20.8	83	25.0	24.4	98	16	80-120	20
Cobalt	ND	25.0	21.3	85	25.0	24.5	98	14	80-120	20
Copper	ND	25.0	21.0	84	25.0	24.1	96	14	80-120	20
Iron	ND	2500	2250	90	2500	2560	102	13	80-120	20
Lead	ND	25.0	22.6	90	25.0	24.5	98	8	80-120	20
Magnesium	ND	2500	2130	85	2500	2410	96	12	80-120	20
Manganese	ND	25.0	21.8	87	25.0	24.8	99	13	80-120	20
Molybdenum	ND	25.0	21.6	87	25.0	24.5	98	12	80-120	20
Nickel	ND	25.0	20.7	83	25.0	24.0	96	15	80-120	20
Potassium	ND	2500	2320	93	2500	2650	106	13	80-120	20
Selenium	ND	25.0	21.6	86	25.0	23.3	93	8	80-120	20
Silver	ND	25.0	24.0	96	25.0	24.2	97	1	80-120	20
Sodium	ND	2500	2220	89	2500	2460	98	10	80-120	20
Strontium	ND	25.0	22.0	88	25.0	25.4	101	14	80-120	20
Thallium	ND	25.0	23.4	93	25.0	24.4	98	4	80-120	20
Tin	ND	25.0	24.5	98	25.0	27.3	109	11	80-120	20
Titanium	ND	25.0	21.8	87	25.0	25.3	101	15	80-120	20
Vanadium	ND	25.0	21.2	85	25.0	24.6	98	15	80-120	20
Zinc	ND	50.0	43.4	87	50.0	46.1	92	6	80-120	20
Lithium	ND	25.0	22.3	89	25.0	24.7	99	10	80-120	20
Phosphorus	ND	250	212	85	250	229	92	8	80-120	20
Zirconium	ND	25.0	20.9	83	25.0	23.5	94	12	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E034  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILTN FACTR: 0.985 0.985  
SAMPLE ID: SL-603-SA5C-SB-0.0-0.5  
CONTROL NO.: E034-03 E034-03A  
LAB FILE ID: 98E08044 98E08043  
DATIME EXTRCTD: 05/11/1210:15 05/11/1210:15 DATE COLLECTED: 05/03/12  
DATIME ANALYZD: 05/15/1218:22 05/15/1218:18 DATE RECEIVED: 05/03/12  
PREP. BATCH: IME014S IME014S  
CALIB. REF: 98E08038 98E08038

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	8390	2680	11200	105	75-125
Antimony	0.266J	26.8	27.3	101	75-125
Arsenic	4.59	26.8	30.2	96	75-125
Barium	80.6	26.8	111	112	75-125
Beryllium	0.475J	26.8	27.2	100	75-125
Boron	ND	26.8	28.8	108	75-125
Cadmium	0.288J	26.8	26.9	100	75-125
Calcium	2370	2680	5260	108	75-125
Chromium	13.9	26.8	39.3	95	75-125
Cobalt	4.39	26.8	30.0	96	75-125
Copper	7.39	26.8	31.7	91	75-125
Iron	18200	2680	20900	102	75-125
Lead	10.6	26.8	37.1	99	75-125
Magnesium	2840	2680	5520	100	75-125
Manganese	234	26.8	259	93	75-125
Molybdenum	1.40	26.8	28.8	103	75-125
Nickel	8.50	26.8	32.8	91	75-125
Potassium	2700	2680	5700	112	75-125
Selenium	ND	26.8	26.0	97	75-125
Silver	ND	26.8	26.4	99	75-125
Sodium	63.5J	2680	2740	100	75-125
Strontium	16.9	26.8	44.2	102	75-125
Thallium	0.260J	26.8	27.0	100	75-125
Tin	ND	26.8	30.6	114	75-125
Titanium	628	26.8	662	126*	75-125
Vanadium	26.5	26.8	52.5	97	75-125
Zinc	45.4	53.5	94.5	92	75-125
Lithium	13.7	26.8	42.5	108	75-125
Phosphorus	273	268	550	103	75-125
Zirconium	ND	26.8	26.4	99	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E034  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 8.0  
 DILUTION FACTOR: 0.985 4.93  
 SAMPLE ID: SL-603-SA5C-SB SL-603-SA5C-SB  
 EMAX SAMP ID: E034-03 E034-03J  
 LAB FILE ID: 98E08044 98E08045  
 DATE EXTRACTED: 05/11/1210:15 05/11/1210:15 DATE COLLECTED: 05/03/12  
 DATE ANALYZED: 05/15/1218:22 05/15/1218:27 DATE RECEIVED: 05/03/12  
 PREP. BATCH: IME014S IME014S  
 CALIB. REF: 98E08038 98E08038

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	8390	8940	6	10
Antimony	0.266J	ND	NA	10
Arsenic	4.59	4.74	3	10
Barium	80.6	78.9	2	10
Beryllium	0.475J	0.433J	NA	10
Boron	ND	ND	0	10
Cadmium	0.288J	0.287J	NA	10
Calcium	2370	2490	5	10
Chromium	13.9	14.5	4	10
Cobalt	4.39	4.71	7	10
Copper	7.39	7.88	7	10
Iron	18200	19200	6	10
Lead	10.6	10.7	2	10
Magnesium	2840	3030	7	10
Manganese	234	245	5	10
Molybdenum	1.40	1.39J	NA	10
Nickel	8.50	8.98	6	10
Potassium	2700	2810	4	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	63.5J	ND	NA	10
Strontium	16.9	16.5	2	10
Thallium	0.260J	0.289J	NA	10
Tin	ND	ND	0	10
Titanium	628	631	0	10
Vanadium	26.5	27.5	4	10
Zinc	45.4	49.1	8	10
Lithium	13.7	13.3	3	10
Phosphorus	273	298	9	10
Zirconium	ND	ND	0	10

METHOD 7470A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E034  
=====

Matrix : WATER  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGE014WQ	ND	1	NA	0.000500	0.000100	05/16/1215:36	05/16/1210:45	M47E013031	M47E013020	HGE014W	NA	05/16/12
LCS1W	HGE014WL	0.00505	1	NA	0.000500	0.000100	05/16/1214:54	05/16/1210:45	M47E013011	M47E013008	HGE014W	NA	05/16/12
LCD1W	HGE014WC	0.00500	1	NA	0.000500	0.000100	05/16/1214:56	05/16/1210:45	M47E013012	M47E013008	HGE014W	NA	05/16/12
EB-050312	E034-02	ND	1	NA	0.000500	0.000100	05/16/1215:09	05/16/1210:45	M47E013018	M47E013008	HGE014W	05/03/12	05/03/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E034  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGE014WQ HGE014WL HGE014WC  
LAB FILE ID: M47E013031 M47E013011 M47E013012  
DATIME EXTRCTD: 05/16/1210:45 05/16/1210:45 05/16/1210:45 DATE COLLECTED: NA  
DATIME ANALYZD: 05/16/1215:36 05/16/1214:54 05/16/1214:56 DATE RECEIVED: 05/16/12  
PREP. BATCH: HGE014W HGE014W HGE014W  
CALIB. REF: M47E013020 M47E013008 M47E013008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00505	101	.005	.005	100	1	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E034

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE015SB	ND	1	NA	0.100	0.0500	05/17/1214:33	05/17/1211:15	M47E014010	M47E014008	HGE015S	NA	05/17/12
LCS1S	HGE015SL	0.867	1	NA	0.100	0.0500	05/17/1214:35	05/17/1211:15	M47E014011	M47E014008	HGE015S	NA	05/17/12
LCD1S	HGE015SC	0.862	1	NA	0.100	0.0500	05/17/1214:37	05/17/1211:15	M47E014012	M47E014008	HGE015S	NA	05/17/12
SL-603-SA5C-SB-0.0-0.5AS	E034-03A	1.21	0.990	8.0	0.108	0.0538	05/17/1214:50	05/17/1211:15	M47E014018	M47E014008	HGE015S	05/03/12	05/03/12
SL-603-SA5C-SB-0.0-0.5	E034-03	0.310	0.990	8.0	0.108	0.0538	05/17/1214:52	05/17/1211:15	M47E014019	M47E014008	HGE015S	05/03/12	05/03/12
SL-603-SA5C-SB-0.0-0.5DL	E034-03J	0.300J	4.95	8.0	0.538	0.269	05/17/1214:58	05/17/1211:15	M47E014022	M47E014020	HGE015S	05/03/12	05/03/12
SL-603-SA5C-SB-0.0-0.5MS	E034-03M	1.27	1.00	8.0	0.109	0.0543	05/17/1215:00	05/17/1211:15	M47E014023	M47E014020	HGE015S	05/03/12	05/03/12
SL-603-SA5C-SB-0.0-0.5MSDE	E034-03S	1.23	1.00	8.0	0.109	0.0543	05/17/1215:02	05/17/1211:15	M47E014024	M47E014020	HGE015S	05/03/12	05/03/12
SL-903-SA5C-SB-0.0-0.5	E034-04	0.314	0.993	6.7	0.106	0.0532	05/17/1215:04	05/17/1211:15	M47E014025	M47E014020	HGE015S	05/03/12	05/03/12
SL-584-SA5C-SB-0.0-0.5	E034-05	ND	1.00	13.2	0.115	0.0576	05/17/1215:06	05/17/1211:15	M47E014026	M47E014020	HGE015S	05/03/12	05/03/12
SL-606-SA5C-SB-0.0-0.5	E034-06	ND	0.998	4.6	0.105	0.0523	05/17/1215:09	05/17/1211:15	M47E014027	M47E014020	HGE015S	05/03/12	05/03/12
SL-612-SA5C-SB-0.0-0.5	E034-07	ND	0.990	6.7	0.106	0.0531	05/17/1215:11	05/17/1211:15	M47E014028	M47E014020	HGE015S	05/03/12	05/03/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E034  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE015SB HGE015SL HGE015SC  
LAB FILE ID: M47E014010 M47E014011 M47E014012  
DATIME EXTRCTD: 05/17/1211:15 05/17/1211:15 05/17/1211:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/17/1214:33 05/17/1214:35 05/17/1214:37 DATE RECEIVED: 05/17/12  
PREP. BATCH: HGE015S HGE015S HGE015S  
CALIB. REF: M47E014008 M47E014008 M47E014008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.867	104	.833	.862	103	1	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E034  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILTN FACTR: 0.990 1.00 1.00  
SAMPLE ID: SL-603-SA5C-SB-0.0-0.5  
CONTROL NO.: E034-03 E034-03M E034-03S  
LAB FILE ID: M47E014019 M47E014023 M47E014024  
DATIME EXTRCTD: 05/17/1211:15 05/17/1211:15 05/17/1211:15 DATE COLLECTED: 05/03/12  
DATIME ANALYZD: 05/17/1214:52 05/17/1215:00 05/17/1215:02 DATE RECEIVED: 05/03/12  
PREP. BATCH: HGE015S HGE015S HGE015S  
CALIB. REF: M47E014008 M47E014020 M47E014020

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	.31	.905	1.27	106	.905	1.23	102	3	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E034  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILTN FACTR: 0.990 0.990  
SAMPLE ID: SL-603-SA5C-SB-0.0-0.5  
CONTROL NO.: E034-03 E034-03A  
LAB FILE ID: M47E014019 M47E014018  
DATIME EXTRCTD: 05/17/1211:15 05/17/1211:15 DATE COLLECTED: 05/03/12  
DATIME ANALYZD: 05/17/1214:52 05/17/1214:50 DATE RECEIVED: 05/03/12  
PREP. BATCH: HGE015S HGE015S  
CALIB. REF: M47E014008 M47E014008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	.31	.896	1.21	100	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E034  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	8.0
DILUTION FACTOR:	0.990	4.95		
SAMPLE ID:	SL-603-SA5C-SB-0.0-	SL-603-SA5C-SB-0.0-		
EMAX SAMP ID:	E034-03	E034-03J		
LAB FILE ID:	M47E014019	M47E014022		
DATE EXTRACTED:	05/17/1211:15	05/17/1211:15	DATE COLLECTED:	05/03/12
DATE ANALYZED:	05/17/1214:52	05/17/1214:58	DATE RECEIVED:	05/03/12
PREP. BATCH:	HGE015S	HGE015S		
CALIB. REF:	M47E014008	M47E014020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	0.310	0.300J	3	10

METHOD 314.0  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E034  
 =====

Matrix : WATER  
 Instrument ID : I57  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PCE002WB	ND	1	NA	2.00	1.00	05/07/1211:04	NA	JE07002	JE07001	PCE002W	NA	NA
LCS1W	PCE002WL	24.7	1	NA	2.00	1.00	05/07/1211:46	NA	JE07004	JE07001	PCE002W	NA	NA
LCD1W	PCE002WC	24.5	1	NA	2.00	1.00	05/07/1212:07	NA	JE07005	JE07001	PCE002W	NA	NA
EB-050312	E034-02	ND	1	NA	2.00	1.00	05/07/1215:48	NA	JE07015	JE07013	PCE002W	05/03/1214:50	05/03/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: METHOD 314.0

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PCE002WB PCE002WL PCE002WC  
LAB FILE ID: JE07002 JE07004 JE07005  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/07/1211:04 05/07/1211:46 05/07/1212:07 DATE RECEIVED: NA  
PREP. BATCH: PCE002W PCE002W PCE002W  
CALIB. REF: JE07001 JE07001 JE07001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	24.7	99	25.0	24.5	98	1	85-115	15

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E034  
=====

Matrix : SOIL  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLE001SB	ND	1	NA	5.00	2.50	05/11/1216:01	05/09/1215:10	NE11004	NE11003	PLE001S	NA	05/09/12
LCS1S	PLE001SL	26.8	1	NA	5.00	2.50	05/11/1216:15	05/09/1215:10	NE11005	NE11003	PLE001S	NA	05/09/12
LCD1S	PLE001SC	27.1	1	NA	5.00	2.50	05/11/1216:29	05/09/1215:10	NE11006	NE11003	PLE001S	NA	05/09/12
SL-602-SA5C-SB-0.0-0.5	E034-01	ND	1	8.1	5.44	2.72	05/11/1217:26	05/09/1215:10	NE11010	NE11003	PLE001S	05/02/1215:50	05/03/12
SL-603-SA5C-SB-0.0-0.5	E034-03	ND	1	8.0	5.43	2.72	05/11/1217:40	05/09/1215:10	NE11011	NE11003	PLE001S	05/03/1209:15	05/03/12
SL-603-SA5C-SB-0.0-0.5MS	E034-03M	28.2	1	8.0	5.43	2.72	05/11/1217:54	05/09/1215:10	NE11012	NE11003	PLE001S	05/03/1209:15	05/03/12
SL-603-SA5C-SB-0.0-0.5MSDE	E034-03S	31.1	1	8.0	5.43	2.72	05/11/1218:09	05/09/1215:10	NE11013	NE11003	PLE001S	05/03/1209:15	05/03/12
SL-903-SA5C-SB-0.0-0.5	E034-04	ND	1	6.7	5.36	2.68	05/11/1218:37	05/09/1215:10	NE11015	NE11014	PLE001S	05/03/1209:20	05/03/12
SL-606-SA5C-SB-0.0-0.5	E034-06	ND	1	4.6	5.24	2.62	05/11/1218:51	05/09/1215:10	NE11016	NE11014	PLE001S	05/03/1211:30	05/03/12
SL-612-SA5C-SB-0.0-0.5	E034-07	ND	1	6.7	5.36	2.68	05/11/1219:05	05/09/1215:10	NE11017	NE11014	PLE001S	05/03/1210:55	05/03/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLE001SB PLE001SL PLE001SC  
LAB FILE ID: NE11004 NE11005 NE11006  
DATE EXTRACTED: 05/09/1215:10 05/09/1215:10 05/09/1215:10 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1216:01 05/11/1216:15 05/11/1216:29 DATE RECEIVED: 05/09/12  
PREP. BATCH: PLE001S PLE001S PLE001S  
CALIB. REF: NE11003 NE11003 NE11003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	26.8	107	25.0	27.1	109	1	85-115	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-603-SA5C-SB-0.0-0.5  
LAB SAMP ID: E034-03 E034-03M E034-03S  
LAB FILE ID: NE11011 NE11012 NE11013  
DATE EXTRACTED: 05/09/1215:10 05/09/1215:10 05/09/1215:10 DATE COLLECTED: 05/03/12 09:15  
DATE ANALYZED: 05/11/1217:40 05/11/1217:54 05/11/1218:09 DATE RECEIVED: 05/03/12  
PREP. BATCH: PLE001S PLE001S PLE001S  
CALIB. REF: NE11003 NE11003 NE11003

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	27.2	28.2	104	27.2	31.1	114	10	80-120	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E034  
 =====

Matrix : WATER  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCE007WB	ND	1	NA	0.200	0.100	05/04/1211:00	NA	IE04003	IE04001	HCE007W	NA	NA
MBLK1W	HCE007WQ	ND	1	NA	0.200	0.100	05/04/1211:10	NA	IE04004	IE04001	HCE007W	NA	NA
LCS1W	HCE007WL	2.25	1	NA	0.200	0.100	05/04/1211:42	NA	IE04007	IE04001	HCE007W	NA	NA
LCS1W	HCE007WX	1.94	1	NA	0.200	0.100	05/04/1211:52	NA	IE04008	IE04001	HCE007W	NA	NA
LCD2W	HCE007WC	2.10	1	NA	0.200	0.100	05/04/1212:02	NA	IE04009	IE04001	HCE007W	NA	NA
LCD2W	HCE007WY	2.18	1	NA	0.200	0.100	05/04/1212:13	NA	IE04010	IE04001	HCE007W	NA	NA
EB-050312	E034-02	ND	1	NA	0.200	0.100	05/04/1211:21	NA	IE04005	IE04001	HCE007W	05/03/1214:50	05/03/12
EB-050312	E034-02R	ND	1	NA	0.200	0.100	05/04/1211:31	NA	IE04006	IE04001	HCE007W	05/03/1214:50	05/03/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCE007WB HCE007WL HCE007WC  
LAB FILE ID: IE04003 IE04007 IE04009  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/04/1211:00 05/04/1211:42 05/04/1212:02 DATE RECEIVED: NA  
PREP. BATCH: HCE007W HCE007W HCE007W  
CALIB. REF: IE04001 IE04001 IE04001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	2.25	112	2.00	2.10	105	7	80-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E034  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCE007WQ HCE007WX HCE007WY  
LAB FILE ID: IE04004 IE04008 IE04010  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/04/1211:10 05/04/1211:52 05/04/1212:13 DATE RECEIVED: NA  
PREP. BATCH: HCE007W HCE007W HCE007W  
CALIB. REF: IE04001 IE04001 IE04001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.94	97	2.00	2.18	109	12	80-120	20

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E034  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB-050312	E034-02	5.01	1	NA	NA	05/03/1219:02	NA	12PHE005W01	PHE005W	PHE005W	05/03/1214:50	05/03/12
EB-050312DUP	E034-02D	5.01	1	NA	NA	05/03/1219:03	NA	12PHE005W02	PHE005W	PHE005W	05/03/1214:50	05/03/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.:	12E034	DATE RECEIVED:	05/03/12
SAMPLE ID:	EB-050312DUP	DATE EXTRACTED:	NA
CONTROL NO.:	E034-02D	DATE ANALYZED:	05/03/1219:03

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	5.01	5.01	0	0.10

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E034  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-603-SA5C-SB-0.0-0.5	E034-03	7.47	1	NA	NA	NA	05/04/1217:55	05/04/1217:55	12PHE006S01	PHE006S	PHE006S	05/03/1209:15	05/03/12
SL-603-SA5C-SB-0.0-0.5	DUPE034-03D	7.45	1	NA	NA	NA	05/04/1217:56	05/04/1217:55	12PHE006S02	PHE006S	PHE006S	05/03/1209:15	05/03/12
SL-903-SA5C-SB-0.0-0.5	E034-04	7.48	1	NA	NA	NA	05/04/1217:58	05/04/1217:55	12PHE006S03	PHE006S	PHE006S	05/03/1209:20	05/03/12
SL-584-SA5C-SB-0.0-0.5	E034-05	8.14	1	NA	NA	NA	05/04/1218:00	05/04/1217:55	12PHE006S04	PHE006S	PHE006S	05/03/1210:00	05/03/12
SL-606-SA5C-SB-0.0-0.5	E034-06	8.29	1	NA	NA	NA	05/04/1218:02	05/04/1217:55	12PHE006S05	PHE006S	PHE006S	05/03/1211:30	05/03/12
SL-612-SA5C-SB-0.0-0.5	E034-07	7.26	1	NA	NA	NA	05/04/1218:04	05/04/1217:55	12PHE006S06	PHE006S	PHE006S	05/03/1210:55	05/03/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E034	DATE RECEIVED:	05/03/12
SAMPLE ID:	SL-603-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	05/04/1217:55
CONTROL NO.:	E034-03D	DATE ANALYZED:	05/04/1217:56

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	7.47	7.45	0.02	0.10

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/08/12 15:07
Sample ID    : TB-050712                        Date Analyzed: 05/08/12 15:07
Lab Samp ID  : E049-02                          Dilution Factor: 1
Lab File ID  : REV170                           Matrix          : WATER
Ext Btch ID  : VO01E06                          % Moisture     : NA
Calib. Ref.  : RBV366                           Instrument ID   : T-001
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	8.91	10.00	89.1	80-120
4-BROMOFLUOROBENZENE	10.3	10.00	103	86-115
TOLUENE-D8	10.1	10.00	101	88-110
DIBROMOFLUOROMETHANE	8.98	10.00	89.8	86-118

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/08/12
Batch No.    : 12E049                             Date Extracted: 05/08/12 12:17
Sample ID    : MBLK1W                             Date Analyzed: 05/08/12 12:17
Lab Samp ID  : VO01E06B                           Dilution Factor: 1
Lab File ID  : REV164                              Matrix          : WATER
Ext Btch ID  : VO01E06                             % Moisture     : NA
Calib. Ref.  : RBV366                              Instrument ID   : T-001
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	10.1	10.00	101	80-120
4-BROMOFLUOROBENZENE	9.52	10.00	95.2	86-115
TOLUENE-D8	9.49	10.00	94.9	88-110
DIBROMOFLUOROMETHANE	9.27	10.00	92.7	86-118

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: METHOD 5030B/8260B

MATRIX: WATER  
DILUTION FACTOR: 1 1  
SAMPLE ID: MELKIW  
LAB SAMP ID: V001E06B  
LAB FILE ID: REV164  
DATE EXTRACTED: 05/08/1212:17  
DATE ANALYZED: 05/08/1212:17  
PREP. BATCH: V001E06  
CALIB. REF: REV366

% MOISTURE: NA  
DATE COLLECTED: NA  
DATE RECEIVED: 05/08/12

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1,2-Tetrachloroethane	ND	10.0	9.59	96	10.0	9.83	98	2	70-130	30
1,1,1-Trichloroethane	ND	10.0	9.51	95	10.0	9.43	94	1	70-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.79	98	10.0	9.78	98	0	70-130	30
1,1,2-Trichloroethane	ND	10.0	9.58	96	10.0	9.68	97	1	70-130	30
1,1-Dichloroethane	ND	10.0	9.14	91	10.0	9.19	92	1	70-130	30
1,1-Dichloroethene	ND	10.0	8.32	83	10.0	8.21	82	1	60-130	30
1,1-Dichloropropene	ND	10.0	8.76	88	10.0	9.00	90	3	70-140	30
1,2,3-Trichlorobenzene	ND	10.0	10.1	101	10.0	10.4	104	3	60-130	30
1,2,3-Trichloropropene	ND	10.0	10.4	104	10.0	10.5	105	1	70-140	30
1,2,4-Trichlorobenzene	ND	10.0	10.1	101	10.0	10.4	104	3	60-140	30
1,2,4-Trimethylbenzene	ND	10.0	9.78	98	10.0	9.96	100	2	70-130	30
1,2-Dibromo-3-chloropropane	ND	10.0	9.64	96	10.0	9.43	94	2	60-130	30
1,2-Dichlorobenzene	ND	10.0	9.75	98	10.0	9.87	99	1	70-130	30
1,2-Dichloroethane	ND	10.0	9.61	96	10.0	9.77	98	2	70-130	30
1,2-Dichloropropene	ND	10.0	9.42	94	10.0	9.63	96	2	70-130	30
1,2-Dibromoethane (EDB)	ND	10.0	9.38	94	10.0	9.53	95	2	70-140	30
1,3,5-Trimethylbenzene	ND	10.0	9.99	100	10.0	10.2	102	2	70-130	30
1,3-Dichlorobenzene	ND	10.0	9.67	97	10.0	9.88	99	2	70-130	30
1,3-Dichloropropene	ND	10.0	9.32	93	10.0	9.37	94	1	70-130	30
1,4-Dichlorobenzene	ND	10.0	9.50	95	10.0	9.64	96	1	70-130	30
2,2-Dichloropropene	ND	10.0	9.53	95	10.0	9.53	95	0	50-140	30
2-Chlorotoluene	ND	10.0	9.64	96	10.0	9.87	99	2	70-130	30
4-Chlorotoluene	ND	10.0	9.87	99	10.0	10.0	100	2	70-130	30
Benzene	ND	10.0	8.42	84	10.0	8.64	86	3	70-130	30
Bromobenzene	ND	10.0	9.48	95	10.0	9.98	100	5	70-130	30
Bromochloroethane	ND	10.0	9.71	97	10.0	9.39	94	3	70-130	30
Bromodichloromethane	ND	10.0	9.28	93	10.0	9.40	94	1	70-130	30
Bromoform	ND	10.0	9.81	98	10.0	9.81	98	0	60-140	30
Bromomethane	ND	10.0	9.67	97	10.0	9.78	98	1	50-140	30
Carbon Tetrachloride	ND	10.0	9.40	94	10.0	9.74	97	4	70-130	30
Chlorobenzene	ND	10.0	9.33	93	10.0	9.48	95	2	70-120	30
Chloroethane	ND	10.0	9.98	100	10.0	10.1	101	1	70-140	30
Chloroform	ND	10.0	9.32	93	10.0	9.33	93	0	70-130	30
Chloromethane	ND	10.0	8.69	87	10.0	8.75	87	1	60-130	30
cis-1,2-Dichloroethene	ND	10.0	8.95	89	10.0	8.96	90	0	70-130	30
cis-1,3-Dichloropropene	ND	10.0	8.88	89	10.0	9.19	92	3	70-130	30
Dibromochloromethane	ND	10.0	9.67	97	10.0	9.83	98	2	70-130	30
Dibromomethane	ND	10.0	9.55	96	10.0	9.70	97	2	70-140	30
Dichlorodifluoromethane	ND	10.0	7.86	79	10.0	8.39	84	7	50-140	30
Ethylbenzene	ND	10.0	9.40	94	10.0	9.66	97	3	70-130	30
Hexachlorobutadiene	ND	10.0	11.4	114	10.0	11.9	119	4	60-140	30
Isopropyl Benzene	ND	10.0	9.71	97	10.0	10.2	102	5	70-150	30
m,p-Xylene	ND	20.0	18.4	92	20.0	19.0	95	3	70-130	30
Methyl tert-butyl Ether (MTBE)	ND	10.0	8.81	88	10.0	8.64	86	2	70-140	30
Methylene Chloride	ND	10.0	8.88	89	10.0	8.71	87	2	70-130	30
n-Butylbenzene	ND	10.0	10.3	103	10.0	10.5	105	2	60-130	30
n-Propylbenzene	ND	10.0	9.66	97	10.0	9.91	99	3	70-140	30
o-Xylene	ND	10.0	9.36	94	10.0	9.61	96	3	70-130	30

	ND	10.0	10.4	10.0	10.0	10.6	106	2	70-140	30
p-Isopropyltoluene	ND	10.0	10.4	10.0	10.0	10.6	106	2	70-140	30
Sec-Butylbenzene	ND	10.0	10.2	10.0	10.0	10.6	106	4	70-130	30
Styrene	ND	10.0	9.54	10.0	10.0	9.84	98	3	70-130	30
Tert-Butylbenzene	ND	10.0	9.86	10.0	10.0	10.1	101	3	70-130	30
Tetrachloroethene	ND	10.0	8.31	10.0	10.0	8.74	87	5	70-130	30
Toluene	ND	10.0	8.90	10.0	10.0	9.27	93	4	70-130	30
Trans-1,2-Dichloroethene	ND	10.0	8.13	10.0	10.0	8.19	82	1	70-130	30
Trans-1,3-Dichloropropene	ND	10.0	9.16	10.0	10.0	9.25	92	1	70-140	30
Trichloroethene	ND	10.0	8.50	10.0	10.0	8.87	89	4	70-130	30
Trichlorofluoromethane	ND	10.0	11.4	10.0	10.0	11.7	117	2	70-140	30
Vinyl Chloride	ND	10.0	9.70	10.0	10.0	9.87	99	2	60-150	30
Acetone	ND	50.0	46.0	50.0	50.0	41.8	84	10	50-150	30
2-Butanone (MEK)	ND	50.0	46.0	50.0	50.0	42.5	85	8	60-140	30
2-Hexanone	ND	50.0	43.3	50.0	50.0	41.0	82	5	70-140	30
4-Methyl-2-Pentanone (MIBK)	ND	50.0	44.3	50.0	50.0	42.3	85	5	60-140	30
Freon113	ND	10.0	8.92	10.0	10.0	9.05	91	2	70-140	30
2-Chloroethyl Vinyl Ether	ND	10.0	9.27	10.0	10.0	9.03	90	3	30-160	30
2-Chloro-1,1,1-trifluoroethane	ND	10.0	11.0	10.0	10.0	10.8	108	2	50-150	30
Chlorotrifluoroethylene	ND	10.0	6.93	10.0	10.0	6.94	69	0	50-150	30
1-Chlorohexane	ND	10.0	8.86	10.0	10.0	8.99	90	1	50-150	30
Carbon Disulfide	ND	10.0	9.76	10.0	10.0	9.72	97	0	40-150	30
Ethyl tertiary butyl Ether (ETBE)	ND	10.0	9.05	10.0	10.0	8.67	87	4	40-160	30
Iodomethane	ND	10.0	7.59	10.0	10.0	7.70	77	1	40-150	30
Tertiary Amyl Methyl Ether (TAME)	ND	10.0	8.73	10.0	10.0	8.50	85	3	50-150	30
Tertiary butyl Alcohol	ND	50.0	48.9	50.0	50.0	43.2	86	12	20-160	30
Vinyl Acetate	ND	10.0	8.98	10.0	10.0	9.03	90	1	10-160	30
Acrolein	ND	50.0	51.7	50.0	50.0	48.9	98	6	30-160	30
Acrylonitrile	ND	50.0	42.2	84	50.0	39.6	79	6	50-150	30
Diisopropyl Ether	ND	10.0	9.68	10.0	10.0	9.43	94	3	50-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.2	102	10.0	9.94	99	80-120
4-Bromofluorobenzene	10.0	8.69	87	10.0	8.85	88	86-115
Toluene-d8	10.0	9.31	93	10.0	9.55	96	88-110
Dibromofluoromethane	10.0	9.55	96	10.0	9.42	94	86-118

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/08/12 11:38
Sample ID    : SL-592-SA5C-SB-0.5              Date Analyzed: 05/08/12 11:38
Lab Samp ID  : E049-06                          Dilution Factor: 0.91
Lab File ID  : REB174                           Matrix          : SOIL
Ext Btch ID  : VO03E11                          % Moisture     : 8.4
Calib. Ref.  : RDB309                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	0.99
1,1,1-TRICHLOROETHANE	ND	5.0	0.99
1,1,2,2-TETRACHLOROETHANE	ND	5.0	0.99
1,1,2-TRICHLOROETHANE	ND	5.0	0.99
1,1-DICHLOROETHANE	ND	5.0	0.99
1,1-DICHLOROETHENE	ND	5.0	0.99
1,1-DICHLOROPROPENE	ND	5.0	0.99
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	0.99
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DICHLOROBENZENE	ND	5.0	0.99
1,2-DICHLOROETHANE	ND	5.0	0.99
1,2-DICHLOROPROPANE	ND	5.0	0.99
1,2-DIBROMOETHANE (EDB)	ND	5.0	0.99
1,3,5-TRIMETHYLBENZENE	ND	5.0	0.99
1,3-DICHLOROBENZENE	ND	5.0	0.99
1,3-DICHLOROPROPANE	ND	5.0	0.99
1,4-DICHLOROBENZENE	ND	5.0	0.99
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-CHLOROTOLUENE	ND	5.0	0.99
4-CHLOROTOLUENE	ND	5.0	0.99
BENZENE	ND	5.0	0.99
BROMOBENZENE	ND	5.0	0.99
BROMOCHLOROMETHANE	ND	5.0	0.99
BROMODICHLOROMETHANE	ND	5.0	0.99
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	0.99
CHLOROBENZENE	ND	5.0	0.99
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	0.99
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	0.99
CIS-1,3-DICHLOROPROPENE	ND	5.0	0.99
DIBROMOCHLOROMETHANE	ND	5.0	0.99
DIBROMOMETHANE	ND	5.0	0.99
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	0.99
HEXACHLOROBUTADIENE	ND	5.0	2.0
ISOPROPYL BENZENE	ND	5.0	0.99
M,P-XYLENE	ND	5.0	2.0
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.0	0.99
METHYLENE CHLORIDE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	0.99
N-PROPYLBENZENE	ND	5.0	0.99
O-XYLENE	ND	5.0	0.99
P-ISOPROPYLTOLUENE	ND	5.0	0.99
SEC-BUTYLBENZENE	ND	5.0	0.99
STYRENE	ND	5.0	0.99
TERT-BUTYLBENZENE	ND	5.0	0.99
TETRACHLOROETHENE	ND	5.0	0.99
TOLUENE	ND	5.0	0.99
TRANS-1,2-DICHLOROETHENE	ND	5.0	0.99
TRANS-1,3-DICHLOROPROPENE	ND	5.0	0.99
TRICHLOROETHENE	ND	5.0	0.99
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
ACETONE	ND	9.9	5.0
2-BUTANONE (MEK)	ND	9.9	5.0
2-HEXANONE	ND	9.9	5.0
4-METHYL-2-PENTANONE (MIBK)	ND	9.9	5.0
FREON113	ND	5.0	2.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	2.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.0	2.0
CHLOROTRIFLUOROETHYLENE	ND	5.0	2.0
1-CHLOROHEXANE	ND	5.0	0.99
CARBON DISULFIDE	ND	5.0	2.0
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.0	0.99
IODOMETHANE	ND	5.0	2.0
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.0	0.99
TERTIARY BUTYL ALCOHOL	ND	20	9.9
VINYL ACETATE	ND	5.0	2.0
ACROLEIN	ND	9.9	5.0
ACRYLONITRILE	ND	9.9	5.0
DIISOPROPYL ETHER	ND	9.9	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	47.8	49.67	96.3	80-120
4-BROMOFLUOROBENZENE	47.7	49.67	96.1	74-121
TOLUENE-D8	51.6	49.67	104	81-117
DIBROMOFLUOROMETHANE	48.9	49.67	98.4	80-120

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E049                           Date Extracted: 05/08/12 08:49
Sample ID    : MBLK1S                           Date Analyzed: 05/08/12 08:49
Lab Samp ID  : VO03E11B                         Dilution Factor: 1
Lab File ID  : REB170                           Matrix          : SOIL
Ext Btch ID  : VO03E11                          % Moisture     : NA
Calib. Ref.  : RDB309                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,2-DIBROMOETHANE (EDB)	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-CHLOROTOLUENE	ND	5.0	1.0
4-CHLOROTOLUENE	ND	5.0	1.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DIBROMOMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
HEXACHLOROBUTADIENE	ND	5.0	2.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENE	ND	5.0	2.0
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.0	1.0
METHYLENE CHLORIDE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	5.0
FREON113	ND	5.0	2.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	2.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.0	2.0
CHLOROTRIFLUOROETHYLENE	ND	5.0	2.0
1-CHLOROHEXANE	ND	5.0	1.0
CARBON DISULFIDE	ND	5.0	2.0
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.0	1.0
IODOMETHANE	ND	5.0	2.0
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.0	1.0
TERTIARY BUTYL ALCOHOL	ND	20	10
VINYL ACETATE	ND	5.0	2.0
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	46.0	50.00	92.0	80-120
4-BROMOFLUOROBENZENE	47.2	50.00	94.4	74-121
TOLUENE-D8	50.4	50.00	101	81-117
DIBROMOFLUOROMETHANE	49.8	50.00	99.5	80-120

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E049                           Date Extracted: 05/08/12 11:02
Sample ID    : MBLK2S                           Date Analyzed: 05/08/12 11:02
Lab Samp ID  : VPE007SB                        Dilution Factor: 1
Lab File ID  : REB173                           Matrix          : SOIL
Ext Btch ID  : VO03E11                          % Moisture     : NA
Calib. Ref. : RDB309                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,2-DIBROMOETHANE (EDB)	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-CHLOROTOLUENE	ND	5.0	1.0
4-CHLOROTOLUENE	ND	5.0	1.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DIBROMOMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
HEXACHLOROBUTADIENE	ND	5.0	2.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENE	ND	5.0	2.0
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.0	1.0
METHYLENE CHLORIDE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	5.0
FREON113	ND	5.0	2.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	2.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.0	2.0
CHLOROTRIFLUOROETHYLENE	ND	5.0	2.0
1-CHLOROHEXANE	ND	5.0	1.0
CARBON DISULFIDE	ND	5.0	2.0
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.0	1.0
IODOMETHANE	ND	5.0	2.0
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.0	1.0
TERTIARY BUTYL ALCOHOL	ND	20	10
VINYL ACETATE	ND	5.0	2.0
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	49.9	50.00	99.7	80-120
4-BROMOFLUOROBENZENE	46.9	50.00	93.7	74-121
TOLUENE-D8	49.4	50.00	98.7	81-117
DIBROMOFLUOROMETHANE	50.5	50.00	101	80-120

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: METHOD 5035/8260B

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: VO03E11B VO03E11L VO03E11C  
LAB FILE ID: REB170 REB169 REB171  
DATE EXTRACTED: 05/08/1208:49 05/08/1208:14 05/08/1209:25 DATE COLLECTED: NA  
DATE ANALYZED: 05/08/1208:49 05/08/1208:14 05/08/1209:25 DATE RECEIVED: 05/08/12  
PREP. BATCH: VO03E11 VO03E11 VO03E11  
CALIB. REF: RDB309 RDB309 RDB309

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	50.0	47.5	95	50.0	48.4	97	2	70-130	50
1,1,1-Trichloroethane	ND	50.0	48.4	97	50.0	48.3	97	0	60-130	50
1,1,2,2-Tetrachloroethane	ND	50.0	49.1	98	50.0	46.0	92	7	70-150	50
1,1,2-Trichloroethane	ND	50.0	47.3	95	50.0	46.5	93	2	70-140	50
1,1-Dichloroethane	ND	50.0	48.6	97	50.0	48.8	98	0	70-140	50
1,1-Dichloroethene	ND	50.0	46.5	93	50.0	45.9	92	1	60-130	50
1,1-Dichloropropene	ND	50.0	47.5	95	50.0	47.1	94	1	70-130	50
1,2,3-Trichlorobenzene	ND	50.0	44.8	90	50.0	44.7	89	0	60-150	50
1,2,3-Trichloropropane	ND	50.0	46.6	93	50.0	45.1	90	3	60-150	50
1,2,4-Trichlorobenzene	ND	50.0	46.7	93	50.0	45.3	91	3	60-140	50
1,2,4-Trimethylbenzene	ND	50.0	46.9	94	50.0	47.4	95	1	70-130	50
1,2-Dibromo-3-chloropropane	ND	50.0	49.5	99	50.0	45.7	91	8	50-150	50
1,2-Dichlorobenzene	ND	50.0	47.8	96	50.0	48.0	96	0	70-130	50
1,2-Dichloroethane	ND	50.0	44.1	88	50.0	44.2	88	0	60-140	50
1,2-Dichloropropane	ND	50.0	47.3	95	50.0	48.0	96	1	70-130	50
1,2-Dibromoethane (EDB)	ND	50.0	47.2	94	50.0	46.3	93	2	50-150	50
1,3,5-Trimethylbenzene	ND	50.0	47.2	94	50.0	47.6	95	1	70-130	50
1,3-Dichlorobenzene	ND	50.0	49.2	98	50.0	49.0	98	0	70-130	50
1,3-Dichloropropane	ND	50.0	46.6	93	50.0	46.6	93	0	70-140	50
1,4-Dichlorobenzene	ND	50.0	49.1	98	50.0	48.3	97	2	70-130	50
2,2-Dichloropropane	ND	50.0	45.5	91	50.0	45.1	90	1	40-140	50
2-Chlorotoluene	ND	50.0	46.1	92	50.0	47.1	94	2	70-130	50
4-Chlorotoluene	ND	50.0	47.4	95	50.0	46.9	94	1	70-130	50
Benzene	ND	50.0	46.7	93	50.0	46.7	93	0	70-130	50
Bromobenzene	ND	50.0	48.2	96	50.0	48.7	97	1	70-130	50
Bromochloromethane	ND	50.0	50.7	101	50.0	49.4	99	3	60-150	50
Bromodichloromethane	ND	50.0	46.8	94	50.0	47.5	95	2	60-130	50
Bromoform	ND	50.0	49.8	100	50.0	48.6	97	2	60-130	50
Bromomethane	ND	50.0	55.4	111	50.0	57.7	115	4	40-160	50
Carbon Tetrachloride	ND	50.0	45.8	92	50.0	46.5	93	2	50-130	50
Chlorobenzene	ND	50.0	47.8	96	50.0	48.2	96	1	70-130	50
Chloroethane	ND	50.0	52.4	105	50.0	54.3	109	3	60-150	50
Chloroform	ND	50.0	47.7	95	50.0	48.5	97	2	70-130	50
Chloromethane	ND	50.0	49.7	99	50.0	51.2	102	3	50-150	50
cis-1,2-Dichloroethene	ND	50.0	49.6	99	50.0	49.1	98	1	70-130	50
cis-1,3-Dichloropropene	ND	50.0	46.9	94	50.0	47.7	95	2	60-130	50
Dibromochloromethane	ND	50.0	49.0	98	50.0	49.0	98	0	70-130	50
Dibromomethane	ND	50.0	47.1	94	50.0	46.5	93	1	70-130	50
Dichlorodifluoromethane	ND	50.0	46.1	92	50.0	46.4	93	1	50-130	50
Ethylbenzene	ND	50.0	47.2	94	50.0	48.2	96	2	70-130	50
Hexachlorobutadiene	ND	50.0	43.9	88	50.0	44.4	89	1	50-140	50
Isopropyl Benzene	ND	50.0	47.0	94	50.0	48.0	96	2	70-140	50
m,p-Xylene	ND	100	95.3	95	100	96.5	96	1	70-140	50
Methyl tert-butyl Ether (MTBE)	ND	50.0	48.8	98	50.0	47.4	95	3	60-150	50
Methylene Chloride	ND	50.0	49.2	98	50.0	48.5	97	1	70-130	50
n-Butylbenzene	ND	50.0	48.1	96	50.0	46.7	93	3	50-150	50
n-Propylbenzene	ND	50.0	47.2	94	50.0	47.6	95	1	70-130	50
o-Xylene	ND	50.0	47.2	94	50.0	48.0	96	2	70-130	50

p-Isopropyltoluene	ND	50.0	46.8	94	50.0	47.3	95	1	60-140	50
Sec-Butylbenzene	ND	50.0	46.9	94	50.0	48.0	96	2	70-130	50
Styrene	ND	50.0	49.3	99	50.0	49.5	99	0	60-140	50
Tert-Butylbenzene	ND	50.0	47.5	95	50.0	48.7	97	2	70-130	50
Tetrachloroethene	ND	50.0	46.9	94	50.0	47.4	95	1	70-130	50
Toluene	ND	50.0	45.8	92	50.0	46.7	93	2	70-130	50
Trans-1,2-Dichloroethene	ND	50.0	48.0	96	50.0	47.3	95	2	70-130	50
Trans-1,3-Dichloropropene	ND	50.0	47.1	94	50.0	47.3	95	0	60-140	50
Trichloroethene	ND	50.0	46.1	92	50.0	46.5	93	1	70-130	50
Trichlorofluoromethane	ND	50.0	48.2	96	50.0	47.5	95	2	70-140	50
Vinyl Chloride	ND	50.0	47.3	95	50.0	47.7	95	1	60-150	50
Acetone	ND	250	275	110	250	230	92	18	40-160	50
2-Butanone (MEK)	ND	250	267	107	250	222	89	18	50-160	50
2-Hexanone	ND	250	263	105	250	224	90	16	60-160	50
4-Methyl-2-Pentanone (MIBK)	ND	250	259	103	250	222	89	15	70-160	50
Freon113	ND	50.0	48.9	98	50.0	47.5	95	3	50-140	50
2-Chloroethyl Vinyl Ether	ND	50.0	46.3	93	50.0	44.3	89	4	50-150	50
2-Chloro-1,1,1-trifluoroethane	ND	50.0	51.3	103	50.0	50.9	102	1	50-150	50
Chlorotrifluoroethylene	ND	50.0	49.2	98	50.0	50.9	102	3	50-150	50
1-Chlorohexane	ND	50.0	47.3	95	50.0	46.6	93	2	60-130	50
Carbon Disulfide	ND	50.0	48.8	98	50.0	47.3	95	3	40-140	50
Ethyl tertiary butyl Ether (ETBE)	ND	50.0	48.8	98	50.0	48.0	96	2	40-160	50
Iodomethane	ND	50.0	47.8	96	50.0	47.5	95	1	40-150	50
Tertiary Amyl Methyl Ether (TAME)	ND	50.0	48.9	98	50.0	48.0	96	2	50-150	50
Tertiary butyl Alcohol	ND	250	276	110	250	227	91	19	50-150	50
Vinyl Acetate	ND	50.0	48.4	97	50.0	48.0	96	1	10-160	50
Acrolein	ND	250	284	114	250	237	95	18	45-165	50
Acrylonitrile	ND	250	283	113	250	235	94	18	50-150	50
Diisopropyl Ether	ND	50.0	49.0	98	50.0	48.8	98	0	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	50.0	47.4	95	50.0	45.3	91	80-120
4-Bromofluorobenzene	50.0	46.7	93	50.0	47.4	95	74-121
Toluene-d8	50.0	49.4	99	50.0	50.2	100	81-117
Dibromofluoromethane	50.0	50.5	101	50.0	49.0	98	80-120

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/10/12 18:37
Sample ID    : TB-050712                        Date Analyzed: 05/10/12 18:37
Lab Samp ID  : E049-02                          Dilution Factor: 1
Lab File ID  : REY105                           Matrix          : WATER
Ext Btch ID  : VOF5E05                          % Moisture     : NA
Calib. Ref.  : RKY092                           Instrument ID   : TOF5
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	5.61	5.000	112	50-150

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.   : 12E049                           Date Extracted: 05/10/12 18:07
Sample ID   : MBLK1W                           Date Analyzed: 05/10/12 18:07
Lab Samp ID: VOF5E05B                         Dilution Factor: 1
Lab File ID: REY104                           Matrix          : WATER
Ext Btch ID: VOF5E05                           % Moisture     : NA
Calib. Ref.: RKY092                           Instrument ID   : TOF5
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	5.74	5.000	115	50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: 5030B/8260B SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VOF5E05B VOF5E05L VOF5E05C  
LAB FILE ID: REY104 REY101 REY102  
DATE EXTRACTED: 05/10/1218:07 05/10/1216:35 05/10/1217:06 DATE COLLECTED: NA  
DATE ANALYZED: 05/10/1218:07 05/10/1216:35 05/10/1217:06 DATE RECEIVED: 05/10/12  
PREP. BATCH: VOF5E05 VOF5E05 VOF5E05  
CALIB. REF: RKY092 RKY092 RKY092

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,4-Dioxane	ND	50.0	45.1	90	50.0	45.5	91	1	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	5.00	5.24	105	5.00	5.34	107	50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```
=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/10/12 14:47
Sample ID    : SL-592-SA5C-SB-0.5              Date Analyzed: 05/10/12 14:47
Lab Samp ID  : E049-06                          Dilution Factor: 0.86
Lab File ID  : REY098                           Matrix          : SOIL
Ext Btch ID  : VOF5E04                          % Moisture     : 8.4
Calib. Ref.  : RJY282                           Instrument ID   : TOF5
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
1,4-DIOXANE	ND	9.4	4.7
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY
-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	20.9	18.78	111

QC LIMIT  
50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/10/12
Batch No.    : 12E049                             Date Extracted: 05/10/12 13:46
Sample ID    : MBLK1S                             Date Analyzed: 05/10/12 13:46
Lab Samp ID  : VOF5E04B                           Dilution Factor: 1
Lab File ID  : REY096                             Matrix          : SOIL
Ext Btch ID  : VOF5E04                             % Moisture     : NA
Calib. Ref.  : RJY282                             Instrument ID   : TOF5
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,4-DIOXANE	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	24.5	20.00	123	50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E049                           Date Extracted: 05/10/12 14:16
Sample ID    : MBLK2S                           Date Analyzed: 05/10/12 14:16
Lab Samp ID  : VPE011SB                         Dilution Factor: 1.01
Lab File ID  : REY097                           Matrix          : SOIL
Ext Btch ID  : VOF5E04                           % Moisture      : NA
Calib. Ref.  : RJY282                           Instrument ID   : TOF5
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
1,4-DIOXANE	ND	10	5.0
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY
-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	22.3	20.20	111

QC LIMIT  
50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: 5035/8260B SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: VOF5E04B VOF5E04L VOF5E04C  
LAB FILE ID: REY096 REY093 REY094  
DATE EXTRACTED: 05/10/1213:46 05/10/1212:13 05/10/1212:44 DATE COLLECTED: NA  
DATE ANALYZED: 05/10/1213:46 05/10/1212:13 05/10/1212:44 DATE RECEIVED: 05/10/12  
PREP. BATCH: VOF5E04 VOF5E04 VOF5E04  
CALIB. REF: RJY282 RJY282 RJY282

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,4-Dioxane	ND	200	201	101	200	205	102	2	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	20.0	22.5	113	20.0	25.3	127	50-150

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/10/12 15:51
Sample ID:   SL-586-SA5C-SB-0.0-0.5           Date Analyzed: 05/12/12 02:29
Lab Samp ID: E049-03                           Dilution Factor: 19.86
Lab File ID: REJ323                            Matrix          : SOIL
Ext Btch ID: SVE020S                           % Moisture     : 9.7
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	220	55
ACENAPHTHYLENE	ND	220	55
ANTHRACENE	ND	220	55
BENZO (A) ANTHRACENE	ND	220	55
BENZO (A) PYRENE	ND	220	55
BENZO (B) FLUORANTHENE	100J	220	55
BENZO (K) FLUORANTHENE	ND	220	55
BENZO (G, H, I) PERYLENE	ND	220	55
CHRYSENE	ND	220	55
DIBENZO (A, H) ANTHRACENE	ND	220	55
FLUORANTHENE	ND	220	55
FLUORENE	ND	220	55
INDENO (1, 2, 3-CD) PYRENE	ND	220	55
NAPHTHALENE	ND	220	55
PHENANTHRENE	ND	220	55
2-METHYLNAPHTHALENE	ND	220	55
1-METHYLNAPHTHALENE	ND	220	55
N-NITROSODIMETHYLAMINE	ND	220	55
PYRENE	ND	220	55
AZOBENZENE	ND	110	55
BENZO (E) PYRENE	ND	110	55
BIPHENYL	ND	110	55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	295	369.1	80.0	40-130
2-FLUOROBIPHENYL	269	369.1	72.9	45-130
TERPHENYL-D14	327	369.1	88.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/10/12 15:51
Sample ID    : SL-589-SA5C-SB-0.0-0.5          Date Analyzed: 05/14/12 23:30
Lab Samp ID  : E049-04                          Dilution Factor: 9.97
Lab File ID  : REJ354                           Matrix          : SOIL
Ext Btch ID  : SVE020S                          % Moisture     : 7.8
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	110	27
ACENAPHTHYLENE	ND	110	27
ANTHRACENE	ND	110	27
BENZO (A) ANTHRACENE	ND	110	27
BENZO (A) PYRENE	ND	110	27
BENZO (B) FLUORANTHENE	ND	110	27
BENZO (K) FLUORANTHENE	ND	110	27
BENZO (G, H, I) PERYLENE	ND	110	27
CHRYSENE	ND	110	27
DIBENZO (A, H) ANTHRACENE	ND	110	27
FLUORANTHENE	ND	110	27
FLUORENE	ND	110	27
INDENO (1, 2, 3-CD) PYRENE	ND	110	27
NAPHTHALENE	ND	110	27
PHENANTHRENE	ND	110	27
2-METHYLNAPHTHALENE	ND	110	27
1-METHYLNAPHTHALENE	ND	110	27
N-NITROSODIMETHYLAMINE	ND	110	27
PYRENE	ND	110	27
AZOBENZENE	ND	54	27
BENZO (E) PYRENE	ND	54	27
BIPHENYL	ND	54	27

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	316	361.5	87.5	40-130
2-FLUOROBIPHENYL	300	361.5	83.1	45-130
TERPHENYL-D14	355	361.5	98.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/10/12 15:51
Sample ID:   SL-615-SA5C-SB-0.0-0.5           Date Analyzed: 05/14/12 23:49
Lab Samp ID: E049-09                           Dilution Factor: 9.9
Lab File ID: REJ355                             Matrix          : SOIL
Ext Btch ID: SVE020S                           % Moisture      : 11.3
Calib. Ref.: RAJ290                             Instrument ID    : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	110	28
ACENAPHTHYLENE	ND	110	28
ANTHRACENE	ND	110	28
BENZO (A) ANTHRACENE	ND	110	28
BENZO (A) PYRENE	ND	110	28
BENZO (B) FLUORANTHENE	43J	110	28
BENZO (K) FLUORANTHENE	ND	110	28
BENZO (G, H, I) PERYLENE	29J	110	28
CHRYSENE	ND	110	28
DIBENZO (A, H) ANTHRACENE	ND	110	28
FLUORANTHENE	46J	110	28
FLUORENE	ND	110	28
INDENO (1, 2, 3-CD) PYRENE	ND	110	28
NAPHTHALENE	ND	110	28
PHENANTHRENE	ND	110	28
2-METHYLNAPHTHALENE	ND	110	28
1-METHYLNAPHTHALENE	ND	110	28
N-NITROSODIMETHYLAMINE	ND	110	28
PYRENE	41J	110	28
AZOBENZENE	ND	56	28
BENZO (E) PYRENE	ND	56	28
BIPHENYL	ND	56	28

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	301	375.8	80.2	40-130
2-FLUOROBIPHENYL	288	375.8	76.7	45-130
TERPHENYL-D14	325	375.8	86.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E049                           Date Extracted: 05/10/12 15:51
Sample ID    : MBLK1S                           Date Analyzed: 05/11/12 16:39
Lab Samp ID  : SVE020SB                         Dilution Factor: 1
Lab File ID  : REJ292                           Matrix          : SOIL
Ext Btch ID  : SVE020S                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	276	333.3	82.7	40-130
2-FLUOROBIPHENYL	228	333.3	68.4	45-130
TERPHENYL-D14	299	333.3	89.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE020SB SVE020SL SVE020SC  
LAB FILE ID: REJ292 REJ293 REJ294  
DATE EXTRACTED: 05/10/1215:51 05/10/1215:51 05/10/1215:51 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1216:39 05/11/1216:58 05/11/1217:17 DATE RECEIVED: 05/10/12  
PREP. BATCH: SVE020S SVE020S SVE020S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	318	96	333	294	88	8	10-130	50
Acenaphthylene	ND	333	348	104	333	321	96	8	20-130	50
Anthracene	ND	333	292	87	333	282	85	3	20-130	50
Benzo (a) anthracene	ND	333	350	105	333	344	103	2	30-130	50
Benzo (a) pyrene	ND	333	375	113	333	357	107	5	30-130	50
Benzo (b) fluoranthene	ND	333	390	117	333	373	112	5	40-130	50
Benzo (k) fluoranthene	ND	333	378	113	333	356	107	6	30-140	50
Benzo (g, h, i) perylene	ND	333	411	123	333	388	116	6	30-140	50
Chrysene	ND	333	351	105	333	324	97	8	30-140	50
Dibenzo (a, h) anthracene	ND	333	414	124	333	392	118	5	40-140	50
Fluoranthene	ND	333	351	105	333	337	101	4	30-130	50
Fluorene	ND	333	351	105	333	317	95	10	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	416	125	333	394	118	5	20-160	50
Naphthalene	ND	333	274	82	333	264	79	4	10-130	50
Phenanthrene	ND	333	292	88	333	282	84	4	20-130	50
2-Methylnaphthalene	ND	333	310	93	333	298	89	4	30-150	50
1-Methylnaphthalene	ND	333	309	93	333	296	89	4	30-150	50
N-Nitrosodimethylamine	ND	333	313	94	333	296	89	6	30-150	50
Pyrene	ND	333	336	101	333	324	97	4	20-150	50
Azobenzene	ND	333	304	91	333	289	87	5	30-150	50
Benzo (e) pyrene	ND	333	345	104	333	327	98	6	30-150	50
Biphenyl	ND	333	281	84	333	261	78	7	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	304	91	333	269	81	40-130
2-Fluorobiphenyl	333	259	78	333	229	69	45-130
Terphenyl-d14	333	320	96	333	290	87	45-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/03/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/09/12 03:41
Sample ID    : EB-050312                        Date Analyzed: 05/09/12 03:41
Lab Samp ID  : E049-01                          Dilution Factor: 1
Lab File ID  : EE07060A                        Matrix          : WATER
Ext Btch ID  : VG39E05                         % Moisture      : NA
Calib. Ref.  : EE07059A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)**	42J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	37.7	40.00	94.3 60-140

RL : Reporting Limit

\*\* : Discrete peak(s) only, not Gasoline pattern.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/09/12 04:23
Sample ID    : TB-050712                        Date Analyzed: 05/09/12 04:23
Lab Samp ID  : E049-02                           Dilution Factor: 1
Lab File ID  : EE07061A                         Matrix          : WATER
Ext Btch ID  : VG39E05                           % Moisture      : NA
Calib. Ref.  : EE07059A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)**	44J	50	10
SURROGATE PARAMETERS			
4-BROMOFLUOROBENZENE	37.8	40.00	60-140

RL : Reporting Limit

\*\* : Discrete peak(s) only, not Gasoline pattern.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/08/12
Batch No.  : 12E049                             Date Extracted: 05/08/12 13:40
Sample ID  : MBLK1W                             Date Analyzed: 05/08/12 13:40
Lab Samp ID: VG39E05B                           Dilution Factor: 1
Lab File ID: EE07040A                           Matrix          : WATER
Ext Btch ID: VG39E05                             % Moisture     : NA
Calib. Ref.: EE07036A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	34.3	40.00	85.7 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39E05B VG39E05L VG39E05C  
LAB FILE ID: EE07040A EE07041A EE07042A  
DATE EXTRACTED: 05/08/1213:40 05/08/1214:22 05/08/1215:04 DATE COLLECTED: NA  
DATE ANALYZED: 05/08/1213:40 05/08/1214:22 05/08/1215:04 DATE RECEIVED: 05/08/12  
PREP. BATCH: VG39E05 VG39E05 VG39E05  
CALIB. REF: EE07036A EE07036A EE07036A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	467	93	500	508	102	9	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	39.8	100	40.0	42.1	105	60-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/07/12
Project    : SSFL PHASE 3                       Date Received: 05/07/12
Batch No.  : 12E049                             Date Extracted: 05/09/12 08:35
Sample ID: SL-592-SA5C-SB-0.5                 Date Analyzed: 05/09/12 08:35
Lab Samp ID: E049-06                          Dilution Factor: 0.86
Lab File ID: EE07067A                         Matrix          : SOIL
Ext Btch ID: GME006S                          % Moisture     : 8.4
Calib. Ref.: EE07059A                         Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.94	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.64	1.878	87.5 70-140

RL : Reporting Limit

Methanol Extraction Date: 05/08/12 14:34

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/09/12
Batch No.  : 12E049                             Date Extracted: 05/09/12 06:29
Sample ID  : MBLK1S                             Date Analyzed: 05/09/12 06:29
Lab Samp ID: GME006SB                           Dilution Factor: 1
Lab File ID: EE07064A                           Matrix          : SOIL
Ext Btch ID: GME006S                             % Moisture     : NA
Calib. Ref.: EE07059A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.92	2.000	96.1	60-130

RL : Reporting Limit

Methanol Extraction Date: 05/08/12 14:34

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GME006SB GME006SL GME006SC  
LAB FILE ID: EE07064A EE07065A EE07066A  
DATE EXTRACTED: 05/09/1206:29 05/09/1207:11 05/09/1207:53 DATE COLLECTED: NA  
DATE ANALYZED: 05/09/1206:29 05/09/1207:11 05/09/1207:53 DATE RECEIVED: 05/09/12  
PREP. BATCH: GME006S GME006S GME006S  
CALIB. REF: EE07059A EE07059A EE07059A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	23.2	93	25.0	25.5	102	9	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.10	105	2.00	2.17	108	60-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/10/12 15:15
Sample ID:   SL-586-SA5C-SB-0.0-0.5            Date Analyzed: 05/11/12 14:24
Lab Samp ID: E049-03                            Dilution Factor: 1
Lab File ID: LE10083A                          Matrix          : SOIL
Ext Btch ID: DSE014S                            % Moisture     : 9.7
Calib. Ref.: LE10075A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	3.7J	5.5	2.8
EFH(C21-C30)	150	5.5	2.8
EFH(C30-C40)	240	11	5.5
TOTAL EFH(C8-C40)	390	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.6	110.7	67.4	50-150
HEXACOSANE	28.2	27.69	102	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/10/12 15:15
Sample ID:   SL-615-SA5C-SB-0.0-0.5           Date Analyzed: 05/11/12 14:41
Lab Samp ID: E049-09                           Dilution Factor: 1
Lab File ID: LE10084A                          Matrix          : SOIL
Ext Btch ID: DSE014S                            % Moisture     : 11.3
Calib. Ref.: LE10075A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	44	5.6	2.8
EFH(C30-C40)	95	11	5.6
TOTAL EFH(C8-C40)	140	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.0	112.7	70.0	50-150
HEXACOSANE	23.8	28.18	84.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E049                           Date Extracted: 05/10/12 15:15
Sample ID    : MBLK1S                            Date Analyzed: 05/11/12 08:30
Lab Samp ID  : DSE014SB                         Dilution Factor: 1
Lab File ID  : LE10062A                         Matrix          : SOIL
Ext Btch ID  : DSE014S                          % Moisture     : NA
Calib. Ref.  : LE10051A                         Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	68.5	100.0	68.5	50-150
HEXACOSANE	18.8	25.00	75.1	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE014SB DSE014SL DSE014SC  
LAB FILE ID: LE10062A LE10060A LE10061A  
DATE EXTRACTED: 05/10/1215:15 05/10/1215:15 05/10/1215:15 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1208:30 05/11/1207:56 05/11/1208:13 DATE RECEIVED: 05/10/12  
PREP. BATCH: DSE014S DSE014S DSE014S  
CALIB. REF: LE10051A LE10051A LE10051A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	481	96	500	488	98	1	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	78.0	78	100	74.5	74	50-150
Hexacosane	25.0	20.5	82	25.0	19.6	78	50-150

METHOD 3550B/8081A  
PESTICIDES

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/15/12 12:46
Sample ID:   SL-615-SA5C-SB-0.0-0.5            Date Analyzed: 05/16/12 17:34
Lab Samp ID: E049-09                            Dilution Factor: 1
Lab File ID: ME16012A                          Matrix          : SOIL
Ext Btch ID: CPE019S                            % Moisture     : 11.3
Calib. Ref.: ME16005A                          Instrument ID   : GCE8
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	0.66J   (ND)	2.3	0.45   0.45
GAMMA-BHC (LINDANE)	(ND)   ND	2.3	0.45   0.45
BETA-BHC	3.2   (ND)	2.3	0.45   0.45
HEPTACHLOR	(ND)   ND	2.3	0.45   0.45
DELTA-BHC	(ND)   ND	2.3	0.45   0.45
ALDRIN	(ND)   ND	2.3	0.45   0.45
HEPTACHLOR EPOXIDE	(ND)   ND	2.3	0.45   0.45
ENDOSULFAN I	0.59J   (ND)	2.3	0.45   0.45
4,4'-DDE	0.53J   (ND)	2.3	0.45   0.45
DIELDRIN	3.4   (ND)	2.3	0.45   0.45
ENDRIN	0.68J   (ND)	2.3	0.45   0.45
4,4'-DDD	(ND)   ND	2.3	0.45   0.45
ENDOSULFAN II	(ND)   ND	2.3	0.45   0.45
4,4'-DDT	0.48J   (1.9J)	2.3	0.45   0.45
ENDRIN ALDEHYDE	1.5J   (ND)	2.3	0.45   0.45
ENDOSULFAN SULFATE	(ND)   ND	2.3	0.45   0.45
ENDRIN KETONE	(ND)   ND	2.3	0.45   0.45
METHOXYCHLOR	(ND)   ND	5.6	2.3   2.3
MIREX	(ND)   ND	2.3	0.45   0.45
TOXAPHENE	(ND)   ND	56	11   11
CHLORDANE (TECHNICAL)	(ND)   ND	11	5.6   5.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.92   (15.21)	15.03	99.3   (101)	50-130
DECACHLOROBIPHENYL	(12.64)   11.57	15.03	(84.1)   77.0	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3550B/8081A  
PESTICIDES

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/15/12
Batch No.    : 12E049                             Date Extracted: 05/15/12 12:46
Sample ID    : MBLK1S                             Date Analyzed: 05/16/12 16:27
Lab Samp ID  : CPE019SB                           Dilution Factor: 1
Lab File ID  : ME16009A                           Matrix          : SOIL
Ext Btch ID  : CPE019S                             % Moisture     : NA
Calib. Ref.  : ME16005A                           Instrument ID   : GCE8
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	(ND)   ND	2.0	0.40   0.40
GAMMA-BHC (LINDANE)	(ND)   ND	2.0	0.40   0.40
BETA-BHC	(ND)   ND	2.0	0.40   0.40
HEPTACHLOR	(ND)   ND	2.0	0.40   0.40
DELTA-BHC	(ND)   ND	2.0	0.40   0.40
ALDRIN	(ND)   ND	2.0	0.40   0.40
HEPTACHLOR EPOXIDE	(ND)   ND	2.0	0.40   0.40
ENDOSULFAN I	(ND)   ND	2.0	0.40   0.40
4,4'-DDE	(ND)   ND	2.0	0.40   0.40
DIELDRIN	(ND)   ND	2.0	0.40   0.40
ENDRIN	(ND)   ND	2.0	0.40   0.40
4,4'-DDD	(ND)   ND	2.0	0.40   0.40
ENDOSULFAN II	(ND)   ND	2.0	0.40   0.40
4,4'-DDT	(ND)   ND	2.0	0.40   0.40
ENDRIN ALDEHYDE	(ND)   ND	2.0	0.40   0.40
ENDOSULFAN SULFATE	(ND)   ND	2.0	0.40   0.40
ENDRIN KETONE	(ND)   ND	2.0	0.40   0.40
METHOXYCHLOR	(ND)   ND	5.0	2.0   2.0
MIREX	(ND)   ND	2.0	0.40   0.40
TOXAPHENE	(ND)   ND	50	10   10
CHLORDANE (TECHNICAL)	(ND)   ND	10	5.0   5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	11.25   (11.40)	13.33	84.4   (85.5)	50-130
DECACHLOROBIPHENYL	12.46   (12.97)	13.33	93.5   (97.3)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: CPE019SB CPE019SL CPE019SC  
LAB FILE ID: ME16009A ME16010A ME16011A  
DATE EXTRACTED: 05/15/1212:46 05/15/1212:46 05/15/1212:46 DATE COLLECTED: NA  
DATE ANALYZED: 05/16/1216:27 05/16/1216:49 05/16/1217:11 DATE RECEIVED: 05/15/12  
PREP. BATCH: CPE019S CPE019S CPE019S  
CALIB. REF: ME16005A ME16005A ME16005A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
alpha-BHC	(ND)   ND	6.67	6.35   (6.43)	95   (96)	6.67	(6.78)   6.78	(102)   102	(7)   5	30-150	50
gamma-BHC (Lindane)	(ND)   ND	6.67	6.25   (6.54)	94   (98)	6.67	6.57   (6.91)	99   (104)	5   (6)	40-130	50
beta-BHC	(ND)   ND	6.67	6.66   (6.85)	100   (103)	6.67	6.82   (7.11)	102   (107)	2   (4)	50-140	50
Heptachlor	(ND)   ND	6.67	6.40   (6.65)	96   (100)	6.67	6.81   (7.06)	102   (106)	6   (6)	30-130	50
delta-BHC	(ND)   ND	6.67	6.52   (6.88)	98   (103)	6.67	6.74   (7.09)	101   (106)	3   (3)	30-150	50
Aldrin	(ND)   ND	6.67	5.86   (6.13)	88   (92)	6.67	6.19   (6.45)	93   (97)	5   (5)	30-130	50
Heptachlor Epoxide	(ND)   ND	6.67	6.55   (6.82)	98   (102)	6.67	6.82   (7.02)	102   (105)	4   (3)	60-140	50
Endosulfan I	(ND)   ND	6.67	6.16   (6.71)	92   (101)	6.67	6.47   (6.87)	97   (103)	5   (2)	50-150	50
4,4'-DDE	(ND)   ND	6.67	6.45   (7.03)	97   (105)	6.67	6.49   (7.28)	97   (109)	1   (3)	50-150	50
Dieldrin	(ND)   ND	6.67	6.79   (6.85)	102   (103)	6.67	6.97   (6.99)	104   (105)	3   (2)	60-130	50
Endrin	(ND)   ND	6.67	(7.07)   6.84	(106)   103	6.67	(7.21)   6.96	(108)   104	(2)   2	50-140	50
4,4'-DDD	(ND)   ND	6.67	6.79   (7.37)	102   (110)	6.67	6.90   (7.43)	103   (111)	2   (1)	50-160	50
Endosulfan II	(ND)   ND	6.67	7.19   (7.25)	108   (109)	6.67	(7.32)   7.29	(110)   109	(2)   1	60-150	50
4,4'-DDT	(ND)   ND	6.67	(8.17)   7.56	(122)   113	6.67	(8.30)   7.68	(124)   115	(2)   2	60-140	50
Endrin aldehyde	(ND)   ND	6.67	6.89   (7.00)	103   (105)	6.67	7.00   (7.07)	105   (106)	2   (1)	50-160	50
Endosulfan Sulfate	(ND)   ND	6.67	(7.23)   7.17	(108)   107	6.67	(7.37)   7.23	(110)   108	(2)   1	70-140	50
Endrin Ketone	(ND)   ND	6.67	(6.97)   6.82	(104)   102	6.67	(7.07)   6.87	(106)   103	(1)   1	70-160	50
Methoxychlor	(ND)   ND	66.7	71.8   (74.8)	108   (112)	66.7	72.7   (75.4)	109   (113)	1   (1)	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Tetrachloro-m-xylene	13.33	10.85   (10.94)	81.4   (82.1)	13.33	11.96   (12.09)	89.7   (90.7)	50-130
Decachlorobiphenyl	13.33	12.35   (12.61)	92.6   (94.6)	13.33	12.82   (13.08)	96.2   (98.1)	20-120

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/07/12
Project     : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.   : 12E049                           Date Extracted: 05/15/12 12:46
Sample ID   : SL-586-SA5C-SB-0.0-0.5         Date Analyzed: 05/18/12 20:30
Lab Samp ID : E049-03                          Dilution Factor: 1
Lab File ID : SE18027A                        Matrix          : SOIL
Ext Btch ID : CPE019S                         % Moisture     : 9.7
Calib. Ref. : SE18016A                       Instrument ID  : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(63)   79	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	10.64   (13.75)	14.76	72.1   (93.1)	45-120
TETRACHLORO-M-XYLENE	14.76   (14.89)	14.76	100   (101)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/15/12 12:46
Sample ID:   SL-595-SA5C-SB-1.0-2.0           Date Analyzed: 05/18/12 21:04
Lab Samp ID: E049-07                           Dilution Factor: 1
Lab File ID: SE18028A                          Matrix          : SOIL
Ext Btch ID: CPE019S                           % Moisture     : 9.5
Calib. Ref.: SE18016A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	15J   (17J)	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	14.01   (15.08)	14.73	95.1   (102)	45-120
TETRACHLORO-M-XYLENE	15.54   (15.73)	14.73	106   (107)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/15/12 12:46
Sample ID:   SL-595-SA5C-SB-2.0-3.0            Date Analyzed: 05/18/12 21:38
Lab Samp ID: E049-08                            Dilution Factor: 1
Lab File ID: SE18029A                          Matrix          : SOIL
Ext Btch ID: CPE019S                           % Moisture     : 10.5
Calib. Ref.: SE18016A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.60   (15.67)	14.89	91.3   (105)	45-120
TETRACHLORO-M-XYLENE	15.46   (15.69)	14.89	104   (105)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/15/12 12:46
Sample ID    : SL-615-SA5C-SB-0.0-0.5          Date Analyzed: 05/18/12 22:13
Lab Samp ID  : E049-09                           Dilution Factor: 1
Lab File ID  : SE18030A                         Matrix          : SOIL
Ext Btch ID  : CPE019S                          % Moisture     : 11.3
Calib. Ref.  : SE18016A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.75   (13.80)	15.03	78.2   (91.8)	45-120
TETRACHLORO-M-XYLENE	15.49   (15.58)	15.03	103   (104)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/15/12
Batch No.    : 12E049                           Date Extracted: 05/15/12 12:46
Sample ID    : MBLK1S                           Date Analyzed: 05/18/12 18:47
Lab Samp ID  : 60E019SB                         Dilution Factor: 1
Lab File ID  : SE18024A                         Matrix          : SOIL
Ext Btch ID  : CPE019S                          % Moisture     : NA
Calib. Ref.  : SE18016A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	14.02   (15.11)	13.33	105   (113)	45-120
TETRACHLORO-M-XYLENE	12.68   (12.93)	13.33	95.1   (97.0)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E019SB 60E019SL 60E019SC  
LAB FILE ID: SE18024A SE18025A SE18026A  
DATE EXTRACTED: 05/15/1212:46 05/15/1212:46 05/15/1212:46 DATE COLLECTED: NA  
DATE ANALYZED: 05/18/1218:47 05/18/1219:22 05/18/1219:56 DATE RECEIVED: 05/15/12  
PREP. BATCH: CPE019S CPE019S CPE019S  
CALIB. REF: SE18016A SE18016A SE18016A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(183)   182	(110)   109	167	(185)   185	(111)   111	(1)   2	50-130	50
Aroclor 1260	(ND)   ND	167	189   (197)	113   (118)	167	192   (202)	115   (121)	2   (3)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(105)   103	(126)   124	83.3	(106)   104	(127)   125	(1)   1	50-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	14.26   (15.38)	107   (115)	13.33	(14.98)   16.21	(112)   122*	45-120
Tetrachloro-m-xylene	13.33	13.11   (13.33)	98.3   (100)	13.33	(13.90)   13.87	(104)   104	10-160

METHOD 8151A  
HERBICIDES

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=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
Batch No.    : 12E049                           Date Extracted: 05/10/12 17:42
Sample ID:   SL-615-SA5C-SB-0.0-0.5            Date Analyzed: 05/12/12 10:50
Lab Samp ID: E049-09                            Dilution Factor: 1
Lab File ID: WE11045A                           Matrix          : SOIL
Ext Btch ID: HEE005S                             % Moisture     : 11.3
Calib. Ref.: WE11043B                           Instrument ID   : GCT016
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
2,4-D	(ND)   ND	11	5.6   5.6	
2,4-DB	8.1J   (ND)	11	5.6   5.6	
2,4,5-T	(ND)   6.3J	11	5.6   5.6	
2,4,5-TP (SILVEX)	(ND)   ND	11	5.6   5.6	
DALAPON	(ND)   ND	11	5.6   5.6	
DICAMBA	(ND)   ND	11	5.6   5.6	
DICHLOROPROP	(ND)   ND	11	5.6   5.6	
DINOSEB	(ND)   ND	11	5.6   5.6	
MCPA	(ND)   ND	2300	1100   1100	
MCPP	(ND)   ND	2300	1100   1100	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(679.6)   620.4	563.7	(121)   110	10-150

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/10/12
Batch No.  : 12E049                             Date Extracted: 05/10/12 17:42
Sample ID  : MBLK1S                             Date Analyzed: 05/11/12 14:50
Lab Samp ID: HEE005SB                          Dilution Factor: 1
Lab File ID: WE11013A                          Matrix          : SOIL
Ext Btch ID: HEE005S                           % Moisture     : NA
Calib. Ref.: WE11012B                          Instrument ID   : GCT016
=====
  
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
2,4-D	(ND)   ND	10	5.0   5.0	
2,4-DB	(ND)   ND	10	5.0   5.0	
2,4,5-T	(ND)   ND	10	5.0   5.0	
2,4,5-TP (SILVEX)	11   (ND)	10	5.0   5.0	
DALAPON	(ND)   ND	10	5.0   5.0	
DICAMBA	(ND)   ND	10	5.0   5.0	
DICHLOROPROP	(ND)   ND	10	5.0   5.0	
DINOSEB	(ND)   ND	10	5.0   5.0	
MCPA	(ND)   ND	2000	1000   1000	
MCPP	(ND)   ND	2000	1000   1000	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(540.2)   446.7	500.0	(108)   89.3	30-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: METHOD 8151A

MATRIX: SOIL  
DILUTION FACTOR: 1 1  
SAMPLE ID: MELK1S  
LAB SAMP ID: HEE0055L HEE0055C  
LAB FILE ID: WE11014A WE11015A  
DATE EXTRACTED: 05/10/1217:42 05/10/1217:42  
DATE ANALYZED: 05/11/1215:12 05/11/1215:34  
PREP. BATCH: HEE005S HEE005S  
CALIB. REF: WE11012B WE11012B

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
2,4-D	(ND)   ND	50.0	(56.5)   55.8	(113)   112	50.0	(50.2)   49.3	(100)   99	(12)   12	20-130	50
2,4-DB	(ND)   ND	50.0	34.5   (56.0)	69   (112)	50.0	28.5   (52.3)	57   (105)	19   (7)	20-160	50
2,4,5-T	(ND)   ND	50.0	(42.5)   73.6	(85)   147*	50.0	(40.4)   59.3	(81)   119	(5)   22	30-140	50
2,4,5-TP (Silvex)	11   (ND)	50.0	(58.3)   57.1	(117)   114	50.0	(65.8)   53.3	(132)   107	(12)   7	30-140	50
Dalapon	(ND)   ND	50.0	30.4   (32.9)	61   (66)	50.0	26.8   (29.7)	54   (59)	13   (10)	20-160	50
Dicamba	(ND)   ND	50.0	46.7   (53.6)	93   (107)	50.0	46.5   (50.9)	93   (102)	0   (5)	50-150	50
Dichloroprop	(ND)   ND	50.0	60.3   (63.6)	121   (127)	50.0	55.6   (58.1)	111   (116)	8   (9)	60-160	50
Dinoseb	(ND)   ND	50.0	28.7   (38.5)	57   (77)	50.0	24.5   (30.1)	49   (60)	16   (24)	20-130	50
MCFA	(ND)   ND	2500	2480   (2970)	99   (119)	2500	2190   (2940)	88   (118)	12   (1)	20-160	50
MCPP	(ND)   ND	2500	(2990)   2160	(120)   86	2500	(3000)   2230	(120)   89	(0)   3	40-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
2,4-DCPAA	500.0	(500.8)   495.3	(100)   99.1	500.0	465.8   (467.2)	93.2   (93.4)	30-140

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/07/12
Project     : SSFL PHASE 3                     Date Received: 05/07/12
SDG NO.    : 12E049                           Date Extracted: 05/11/12 10:15
Sample ID:  SL-586-SA5C-SB-0.0-0.5           Date Analyzed: 05/15/12 19:17
Lab Samp ID: E049-03                          Dilution Factor: 0.985
Lab File ID: 98E08056                        Matrix          : SOIL
Ext Btch ID: IME014S                         % Moisture     : 9.7
Calib. Ref.: 98E08050                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8380	109	13.1
Antimony	2.76	0.545	0.109
Arsenic	2.90	0.545	0.218
Barium	69.3	0.545	0.218
Beryllium	0.352J	0.545	0.0545
Boron	ND	5.45	2.73
Cadmium	0.618	0.545	0.0545
Calcium	3240	21.8	10.9
Chromium	15.7	0.545	0.218
Cobalt	4.13	0.545	0.0545
Copper	8.10	0.545	0.218
Iron	13200	109	10.9
Lead	15.5	0.545	0.109
Magnesium	3210	10.9	5.45
Manganese	213	0.545	0.273
Molybdenum	0.422J	0.545	0.0545
Nickel	9.88	0.545	0.218
Potassium	2730	109	32.7
Selenium	ND	0.545	0.218
Silver	0.0557J	0.545	0.0545
Sodium	65.4J	109	54.5
Strontium	15.3	0.545	0.273
Thallium	0.199J	0.436	0.0545
Tin	ND	10.9	5.45
Titanium	632	1.09	0.545
Vanadium	22.4	0.545	0.0545
Zinc	215	5.45	1.64
Lithium	13.4	2.18	1.09
Phosphorus	310	13.1	6.54
Zirconium	ND	5.45	2.73

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/07/12
Project     : SSFL PHASE 3                     Date Received: 05/07/12
SDG NO.    : 12E049                           Date Extracted: 05/11/12 10:15
Sample ID   : SL-589-SA5C-SB-0.0-0.5         Date Analyzed: 05/15/12 19:21
Lab Samp ID: E049-04                          Dilution Factor: 0.980
Lab File ID: 98E08057                         Matrix          : SOIL
Ext Btch ID: IME014S                          % Moisture     : 7.8
Calib. Ref.: 98E08050                         Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12000	106	12.8
Antimony	0.218J	0.531	0.106
Arsenic	3.46	0.531	0.213
Barium	108	0.531	0.213
Beryllium	0.456J	0.531	0.0531
Boron	ND	5.31	2.66
Cadmium	0.252J	0.531	0.0531
Calcium	3630	21.3	10.6
Chromium	16.1	0.531	0.213
Cobalt	5.33	0.531	0.0531
Copper	7.99	0.531	0.213
Iron	18400	106	10.6
Lead	7.17	0.531	0.106
Magnesium	4090	10.6	5.31
Manganese	259	0.531	0.266
Molybdenum	0.458J	0.531	0.0531
Nickel	10.3	0.531	0.213
Potassium	3990	106	31.9
Selenium	ND	0.531	0.213
Silver	ND	0.531	0.0531
Sodium	64.3J	106	53.1
Strontium	18.0	0.531	0.266
Thallium	0.241J	0.425	0.0531
Tin	ND	10.6	5.31
Titanium	863	1.06	0.531
Vanadium	32.4	0.531	0.0531
Zinc	59.0	5.31	1.59
Lithium	18.1	2.13	1.06
Phosphorus	429	12.8	6.38
Zirconium	ND	5.31	2.66

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/07/12
Project      : SSFL PHASE 3                     Date Received: 05/07/12
SDG NO.     : 12E049                           Date Extracted: 05/11/12 10:15
Sample ID   : SL-592-SA5C-SB-0.0-0.5          Date Analyzed: 05/15/12 19:26
Lab Samp ID : E049-05                          Dilution Factor: 0.971
Lab File ID : 98E08058                        Matrix          : SOIL
Ext Btch ID : IME014S                         % Moisture     : 8.1
Calib. Ref. : 98E08050                        Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9340	106	12.7
Antimony	1.08	0.528	0.106
Arsenic	2.96	0.528	0.211
Barium	74.6	0.528	0.211
Beryllium	0.377J	0.528	0.0528
Boron	ND	5.28	2.64
Cadmium	0.237J	0.528	0.0528
Calcium	2160	21.1	10.6
Chromium	14.4	0.528	0.211
Cobalt	4.16	0.528	0.0528
Copper	6.47	0.528	0.211
Iron	16600	106	10.6
Lead	10.6	0.528	0.106
Magnesium	3500	10.6	5.28
Manganese	215	0.528	0.264
Molybdenum	0.461J	0.528	0.0528
Nickel	7.50	0.528	0.211
Potassium	2950	106	31.7
Selenium	ND	0.528	0.211
Silver	ND	0.528	0.0528
Sodium	ND	106	52.8
Strontium	11.2	0.528	0.264
Thallium	0.215J	0.423	0.0528
Tin	ND	10.6	5.28
Titanium	881	1.06	0.528
Vanadium	24.7	0.528	0.0528
Zinc	355	5.28	1.58
Lithium	18.6	2.11	1.06
Phosphorus	294	12.7	6.34
Zirconium	ND	5.28	2.64

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/07/12
Project     : SSFL PHASE 3                     Date Received: 05/07/12
SDG NO.    : 12E049                           Date Extracted: 05/11/12 10:15
Sample ID   : SL-615-SA5C-SB-0.0-0.5         Date Analyzed: 05/15/12 19:30
Lab Samp ID: E049-09                          Dilution Factor: 0.971
Lab File ID: 98E08059                         Matrix          : SOIL
Ext Btch ID: IME014S                          % Moisture     : 11.3
Calib. Ref.: 98E08050                         Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14200	109	13.1
Antimony	0.348J	0.547	0.109
Arsenic	3.46	0.547	0.219
Barium	114	0.547	0.219
Beryllium	0.522J	0.547	0.0547
Boron	2.82J	5.47	2.74
Cadmium	0.415J	0.547	0.0547
Calcium	3880	21.9	10.9
Chromium	128	0.547	0.219
Cobalt	6.95	0.547	0.0547
Copper	12.1	0.547	0.219
Iron	19700	109	10.9
Lead	29.9	0.547	0.109
Magnesium	4060	10.9	5.47
Manganese	281	0.547	0.274
Molybdenum	3.10	0.547	0.0547
Nickel	72.8	0.547	0.219
Potassium	3520	109	32.8
Selenium	ND	0.547	0.219
Silver	0.0648J	0.547	0.0547
Sodium	80.3J	109	54.7
Strontium	23.0	0.547	0.274
Thallium	0.246J	0.438	0.0547
Tin	ND	10.9	5.47
Titanium	734	1.09	0.547
Vanadium	37.5	0.547	0.0547
Zinc	72.7	5.47	1.64
Lithium	13.8	2.19	1.09
Phosphorus	312	13.1	6.57
Zirconium	ND	5.47	2.74

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 05/11/12
SDG NO.    : 12E049                           Date Extracted: 05/11/12 10:15
Sample ID  : MBLK1S                            Date Analyzed: 05/15/12 18:04
Lab Samp ID: IME014SB                         Dilution Factor: 1
Lab File ID: 98E08040                        Matrix          : SOIL
Ext Btch ID: IME014S                          % Moisture     : NA
Calib. Ref.: 98E08038                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E049  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME014SB IME014SL IME014SC  
LAB FILE ID: 98E08040 98E08041 98E08042  
DATIME EXTRACTD: 05/11/1210:15 05/11/1210:15 05/11/1210:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/15/1218:04 05/15/1218:09 05/15/1218:13 DATE RECEIVED: 05/11/12  
PREP. BATCH: IME014S IME014S IME014S  
CALIB. REF: 98E08038 98E08038 98E08038

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2150	86	2500	2450	98	13	80-120	20
Antimony	ND	25.0	21.4	85	25.0	24.3	97	13	80-120	20
Arsenic	ND	25.0	21.2	85	25.0	24.0	96	12	80-120	20
Barium	ND	25.0	22.0	88	25.0	25.1	100	13	80-120	20
Beryllium	ND	25.0	20.8	83	25.0	24.1	96	15	80-120	20
Boron	ND	25.0	22.3	89	25.0	24.7	99	10	80-120	20
Cadmium	ND	25.0	22.7	91	25.0	24.0	96	6	80-120	20
Calcium	ND	2500	2250	90	2500	2600	104	14	80-120	20
Chromium	ND	25.0	20.8	83	25.0	24.4	98	16	80-120	20
Cobalt	ND	25.0	21.3	85	25.0	24.5	98	14	80-120	20
Copper	ND	25.0	21.0	84	25.0	24.1	96	14	80-120	20
Iron	ND	2500	2250	90	2500	2560	102	13	80-120	20
Lead	ND	25.0	22.6	90	25.0	24.5	98	8	80-120	20
Magnesium	ND	2500	2130	85	2500	2410	96	12	80-120	20
Manganese	ND	25.0	21.8	87	25.0	24.8	99	13	80-120	20
Molybdenum	ND	25.0	21.6	87	25.0	24.5	98	12	80-120	20
Nickel	ND	25.0	20.7	83	25.0	24.0	96	15	80-120	20
Potassium	ND	2500	2320	93	2500	2650	106	13	80-120	20
Selenium	ND	25.0	21.6	86	25.0	23.3	93	8	80-120	20
Silver	ND	25.0	24.0	96	25.0	24.2	97	1	80-120	20
Sodium	ND	2500	2220	89	2500	2460	98	10	80-120	20
Strontium	ND	25.0	22.0	88	25.0	25.4	101	14	80-120	20
Thallium	ND	25.0	23.4	93	25.0	24.4	98	4	80-120	20
Tin	ND	25.0	24.5	98	25.0	27.3	109	11	80-120	20
Titanium	ND	25.0	21.8	87	25.0	25.3	101	15	80-120	20
Vanadium	ND	25.0	21.2	85	25.0	24.6	98	15	80-120	20
Zinc	ND	50.0	43.4	87	50.0	46.1	92	6	80-120	20
Lithium	ND	25.0	22.3	89	25.0	24.7	99	10	80-120	20
Phosphorus	ND	250	212	85	250	229	92	8	80-120	20
Zirconium	ND	25.0	20.9	83	25.0	23.5	94	12	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E049  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILTN FACTR: 0.985 0.985  
SAMPLE ID: SL-603-SA5C-SB-0.0-0.5  
CONTROL NO.: E034-03 E034-03A  
LAB FILE ID: 98E08044 98E08043  
DATIME EXTRACTD: 05/11/1210:15 05/11/1210:15 DATE COLLECTED: 05/03/12  
DATIME ANALYZD: 05/15/1218:22 05/15/1218:18 DATE RECEIVED: 05/03/12  
PREP. BATCH: IME014S IME014S  
CALIB. REF: 98E08038 98E08038

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	8390	2680	11200	105	75-125
Antimony	0.266J	26.8	27.3	101	75-125
Arsenic	4.59	26.8	30.2	96	75-125
Barium	80.6	26.8	111	112	75-125
Beryllium	0.475J	26.8	27.2	100	75-125
Boron	ND	26.8	28.8	108	75-125
Cadmium	0.288J	26.8	26.9	100	75-125
Calcium	2370	2680	5260	108	75-125
Chromium	13.9	26.8	39.3	95	75-125
Cobalt	4.39	26.8	30.0	96	75-125
Copper	7.39	26.8	31.7	91	75-125
Iron	18200	2680	20900	102	75-125
Lead	10.6	26.8	37.1	99	75-125
Magnesium	2840	2680	5520	100	75-125
Manganese	234	26.8	259	93	75-125
Molybdenum	1.40	26.8	28.8	103	75-125
Nickel	8.50	26.8	32.8	91	75-125
Potassium	2700	2680	5700	112	75-125
Selenium	ND	26.8	26.0	97	75-125
Silver	ND	26.8	26.4	99	75-125
Sodium	63.5J	2680	2740	100	75-125
Strontium	16.9	26.8	44.2	102	75-125
Thallium	0.260J	26.8	27.0	100	75-125
Tin	ND	26.8	30.6	114	75-125
Titanium	628	26.8	662	126*	75-125
Vanadium	26.5	26.8	52.5	97	75-125
Zinc	45.4	53.5	94.5	92	75-125
Lithium	13.7	26.8	42.5	108	75-125
Phosphorus	273	268	550	103	75-125
Zirconium	ND	26.8	26.4	99	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILUTION FACTOR: 0.985 4.93  
SAMPLE ID: SL-603-SA5C-SB SL-603-SA5C-SB  
EMAX SAMP ID: E034-03 E034-03J  
LAB FILE ID: 98E08044 98E08045  
DATE EXTRACTED: 05/11/1210:15 05/11/1210:15 DATE COLLECTED: 05/03/12  
DATE ANALYZED: 05/15/1218:22 05/15/1218:27 DATE RECEIVED: 05/03/12  
PREP. BATCH: IME014S IME014S  
CALIB. REF: 98E08038 98E08038

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	8390	8940	6	10
Antimony	0.266J	ND	NA	10
Arsenic	4.59	4.74	3	10
Barium	80.6	78.9	2	10
Beryllium	0.475J	0.433J	NA	10
Boron	ND	ND	0	10
Cadmium	0.288J	0.287J	NA	10
Calcium	2370	2490	5	10
Chromium	13.9	14.5	4	10
Cobalt	4.39	4.71	7	10
Copper	7.39	7.88	7	10
Iron	18200	19200	6	10
Lead	10.6	10.7	2	10
Magnesium	2840	3030	7	10
Manganese	234	245	5	10
Molybdenum	1.40	1.39J	NA	10
Nickel	8.50	8.98	6	10
Potassium	2700	2810	4	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	63.5J	ND	NA	10
Strontium	16.9	16.5	2	10
Thallium	0.260J	0.289J	NA	10
Tin	ND	ND	0	10
Titanium	628	631	0	10
Vanadium	26.5	27.5	4	10
Zinc	45.4	49.1	8	10
Lithium	13.7	13.3	3	10
Phosphorus	273	298	9	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E049  
=====

Matrix : SOIL  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE015SB	ND	1	NA	0.100	0.0500	05/17/1214:33	05/17/1211:15	M47E014010	M47E014008	HGE015S	NA	05/17/12
LCS1S	HGE015SL	0.867	1	NA	0.100	0.0500	05/17/1214:35	05/17/1211:15	M47E014011	M47E014008	HGE015S	NA	05/17/12
LCD1S	HGE015SC	0.862	1	NA	0.100	0.0500	05/17/1214:37	05/17/1211:15	M47E014012	M47E014008	HGE015S	NA	05/17/12
SL-586-SA5C-SB-0.0-0.5	E049-03	0.184	0.985	9.7	0.109	0.0545	05/17/1215:13	05/17/1211:15	M47E014029	M47E014020	HGE015S	05/07/12	05/07/12
SL-589-SA5C-SB-0.0-0.5	E049-04	ND	0.993	7.8	0.108	0.0539	05/17/1215:15	05/17/1211:15	M47E014030	M47E014020	HGE015S	05/07/12	05/07/12
SL-592-SA5C-SB-0.0-0.5	E049-05	ND	0.995	8.1	0.108	0.0541	05/17/1215:17	05/17/1211:15	M47E014031	M47E014020	HGE015S	05/07/12	05/07/12
SL-615-SA5C-SB-0.0-0.5	E049-09	ND	0.997	11.3	0.112	0.0562	05/17/1215:24	05/17/1211:15	M47E014034	M47E014032	HGE015S	05/07/12	05/07/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E049  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE015SB HGE015SL HGE015SC  
LAB FILE ID: M47E014010 M47E014011 M47E014012  
DATIME EXTRCTD: 05/17/1211:15 05/17/1211:15 05/17/1211:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/17/1214:33 05/17/1214:35 05/17/1214:37 DATE RECEIVED: 05/17/12  
PREP. BATCH: HGE015S HGE015S HGE015S  
CALIB. REF: M47E014008 M47E014008 M47E014008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.867	104	.833	.862	103	1	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E049  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILTN FACTR: 0.990 0.990  
SAMPLE ID: SL-603-SA5C-SB-0.0-0.5  
CONTROL NO.: E034-03 E034-03A  
LAB FILE ID: M47E014019 M47E014018  
DATIME EXTRCTD: 05/17/1211:15 05/17/1211:15 DATE COLLECTED: 05/03/12  
DATIME ANALYZD: 05/17/1214:52 05/17/1214:50 DATE RECEIVED: 05/03/12  
PREP. BATCH: HGE015S HGE015S  
CALIB. REF: M47E014008 M47E014008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	.31	.896	1.21	100	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E049  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 8.0  
 DILUTION FACTOR: 0.990 4.95  
 SAMPLE ID: SL-603-SA5C-SB-0.0- SL-603-SA5C-SB-0.0-  
 EMAX SAMP ID: E034-03 E034-03J  
 LAB FILE ID: M47E014019 M47E014022  
 DATE EXTRACTED: 05/17/1211:15 05/17/1211:15 DATE COLLECTED: 05/03/12  
 DATE ANALYZED: 05/17/1214:52 05/17/1214:58 DATE RECEIVED: 05/03/12  
 PREP. BATCH: HGE015S HGE015S  
 CALIB. REF: M47E014008 M47E014020

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	0.310	0.300J	NA	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E049  
 =====

Matrix : SOIL  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLE002SB	ND	1	NA	5.00	2.50	05/16/1212:17	05/16/1209:29	NE16008	NE16003	PLE002S	NA	05/16/12
LCS1S	PLE002SL	24.8	1	NA	5.00	2.50	05/16/1212:31	05/16/1209:29	NE16009	NE16003	PLE002S	NA	05/16/12
LCD1S	PLE002SC	27.4	1	NA	5.00	2.50	05/16/1212:46	05/16/1209:29	NE16010	NE16003	PLE002S	NA	05/16/12
SL-586-SA5C-SB-0.0-0.5	E049-03	ND	1	9.7	5.54	2.77	05/16/1213:08	05/16/1209:29	NE16011	NE16003	PLE002S	05/07/1210:45	05/07/12
SL-615-SA5C-SB-0.0-0.5	E049-09	ND	1	11.3	5.64	2.82	05/16/1213:23	05/16/1209:29	NE16012	NE16003	PLE002S	05/07/1215:15	05/07/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E049  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLE002SB PLE002SL PLE002SC  
LAB FILE ID: NE16008 NE16009 NE16010  
DATE EXTRACTED: 05/16/1209:29 05/16/1209:29 05/16/1209:29 DATE COLLECTED: NA  
DATE ANALYZED: 05/16/1212:17 05/16/1212:31 05/16/1212:46 DATE RECEIVED: 05/16/12  
PREP. BATCH: PLE002S PLE002S PLE002S  
CALIB. REF: NE16003 NE16003 NE16003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	24.8	99	25.0	27.4	110	10	85-115	20

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E049  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-586-SA5C-SB-0.0-0.5	E049-03	7.81	1	NA	NA	NA	05/08/1213:05	05/08/1213:05	12PHE007S01	PHE007S	PHE007S	05/07/1210:45	05/07/12
SL-589-SA5C-SB-0.0-0.5	E049-04	7.46	1	NA	NA	NA	05/08/1213:07	05/08/1213:05	12PHE007S02	PHE007S	PHE007S	05/07/1211:15	05/07/12
SL-592-SA5C-SB-0.0-0.5	E049-05	7.19	1	NA	NA	NA	05/08/1213:09	05/08/1213:05	12PHE007S03	PHE007S	PHE007S	05/07/1209:00	05/07/12
SL-592-SA5C-SB-0.0-0.5DUPE049-05D		7.16	1	NA	NA	NA	05/08/1213:11	05/08/1213:05	12PHE007S04	PHE007S	PHE007S	05/07/1209:00	05/07/12
SL-615-SA5C-SB-0.0-0.5	E049-09	6.85	1	NA	NA	NA	05/08/1213:13	05/08/1213:05	12PHE007S05	PHE007S	PHE007S	05/07/1215:15	05/07/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E049	DATE RECEIVED:	05/07/12
SAMPLE ID:	SL-592-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	05/08/1213:05
CONTROL NO.:	E049-05D	DATE ANALYZED:	05/08/1213:11

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	7.19	7.16	0.03	0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 15:57
Sample ID:   SL-536-SA5C-SB-0.0-0.5           Date Analyzed: 05/16/12 17:01
Lab Samp ID: E055-01                           Dilution Factor: 1
Lab File ID: REJ373                            Matrix          : SOIL
Ext Btch ID: SVE026S                          % Moisture     : 7.2
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	14	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	21	11	2.7
BENZO (A) ANTHRACENE	77	11	2.7
BENZO (A) PYRENE	89	11	2.7
BENZO (B) FLUORANTHENE	100	11	2.7
BENZO (K) FLUORANTHENE	36	11	2.7
BENZO (G, H, I) PERYLENE	53	11	2.7
CHRYSENE	78	11	2.7
DIBENZO (A, H) ANTHRACENE	14	11	2.7
FLUORANTHENE	170	11	2.7
FLUORENE	5.7J	11	2.7
INDENO (1, 2, 3-CD) PYRENE	45	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	57	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	2.7J	11	2.7
PYRENE	170	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	50	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	260	359.2	72.4	40-130
2-FLUOROBIPHENYL	242	359.2	67.4	45-130
TERPHENYL-D14	286	359.2	79.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 15:57
Sample ID:   SL-547-SA5C-SB-0.0-0.5            Date Analyzed: 05/16/12 19:32
Lab Samp ID: E055-02                            Dilution Factor: 2
Lab File ID: REJ381                             Matrix          : SOIL
Ext Btch ID: SVE026S                           % Moisture     : 12.5
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	23	5.7
ACENAPHTHYLENE	ND	23	5.7
ANTHRACENE	ND	23	5.7
BENZO (A) ANTHRACENE	ND	23	5.7
BENZO (A) PYRENE	7.2J	23	5.7
BENZO (B) FLUORANTHENE	20J	23	5.7
BENZO (K) FLUORANTHENE	ND	23	5.7
BENZO (G, H, I) PERYLENE	14J	23	5.7
CHRYSENE	ND	23	5.7
DIBENZO (A, H) ANTHRACENE	ND	23	5.7
FLUORANTHENE	12J	23	5.7
FLUORENE	ND	23	5.7
INDENO (1, 2, 3-CD) PYRENE	7.4J	23	5.7
NAPHTHALENE	ND	23	5.7
PHENANTHRENE	ND	23	5.7
2-METHYLNAPHTHALENE	ND	23	5.7
1-METHYLNAPHTHALENE	ND	23	5.7
N-NITROSODIMETHYLAMINE	ND	23	5.7
PYRENE	11J	23	5.7
AZOBENZENE	ND	11	5.7
BENZO (E) PYRENE	15	11	5.7
BIPHENYL	ND	11	5.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	310	380.9	81.4	40-130
2-FLUOROBIPHENYL	295	380.9	77.4	45-130
TERPHENYL-D14	348	380.9	91.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 15:57
Sample ID    : SL-548-SA5C-SB-0.0-0.5          Date Analyzed: 05/16/12 19:51
Lab Samp ID  : E055-03                          Dilution Factor: 2
Lab File ID  : REJ382                           Matrix          : SOIL
Ext Btch ID  : SVE026S                          % Moisture     : 14.3
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	23	5.8
ACENAPHTHYLENE	ND	23	5.8
ANTHRACENE	ND	23	5.8
BENZO (A) ANTHRACENE	8.9J	23	5.8
BENZO (A) PYRENE	8.5J	23	5.8
BENZO (B) FLUORANTHENE	14J	23	5.8
BENZO (K) FLUORANTHENE	ND	23	5.8
BENZO (G, H, I) PERYLENE	16J	23	5.8
CHRYSENE	ND	23	5.8
DIBENZO (A, H) ANTHRACENE	ND	23	5.8
FLUORANTHENE	12J	23	5.8
FLUORENE	ND	23	5.8
INDENO (1, 2, 3-CD) PYRENE	ND	23	5.8
NAPHTHALENE	ND	23	5.8
PHENANTHRENE	ND	23	5.8
2-METHYLNAPHTHALENE	ND	23	5.8
1-METHYLNAPHTHALENE	ND	23	5.8
N-NITROSODIMETHYLAMINE	ND	23	5.8
PYRENE	12J	23	5.8
AZOBENZENE	ND	12	5.8
BENZO (E) PYRENE	15	12	5.8
BIPHENYL	ND	12	5.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	312	388.9	80.2	40-130
2-FLUOROBIPHENYL	282	388.9	72.6	45-130
TERPHENYL-D14	319	388.9	82.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 15:57
Sample ID:   SL-671-SA5C-SB-0.0-0.5           Date Analyzed: 05/16/12 20:10
Lab Samp ID: E055-04                           Dilution Factor: 2
Lab File ID: REJ383                             Matrix          : SOIL
Ext Btch ID: SVE026S                           % Moisture     : 5.5
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.3
ACENAPHTHYLENE	ND	21	5.3
ANTHRACENE	ND	21	5.3
BENZO (A) ANTHRACENE	ND	21	5.3
BENZO (A) PYRENE	8.0J	21	5.3
BENZO (B) FLUORANTHENE	11J	21	5.3
BENZO (K) FLUORANTHENE	ND	21	5.3
BENZO (G, H, I) PERYLENE	6.3J	21	5.3
CHRYSENE	ND	21	5.3
DIBENZO (A, H) ANTHRACENE	ND	21	5.3
FLUORANTHENE	10J	21	5.3
FLUORENE	ND	21	5.3
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.3
NAPHTHALENE	ND	21	5.3
PHENANTHRENE	ND	21	5.3
2-METHYLNAPHTHALENE	ND	21	5.3
1-METHYLNAPHTHALENE	ND	21	5.3
N-NITROSODIMETHYLAMINE	ND	21	5.3
PYRENE	10J	21	5.3
AZOBENZENE	ND	11	5.3
BENZO (E) PYRENE	7.9J	11	5.3
BIPHENYL	ND	11	5.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	272	352.7	77.2	40-130
2-FLUOROBIPHENYL	263	352.7	74.5	45-130
TERPHENYL-D14	271	352.7	76.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 15:57
Sample ID:   SL-673-SA5C-SB-0.0-0.5           Date Analyzed: 05/16/12 17:20
Lab Samp ID: E055-05                           Dilution Factor: 1
Lab File ID: REJ374                             Matrix          : SOIL
Ext Btch ID: SVE026S                           % Moisture     : 9.9
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	3.4J	11	2.8
BENZO (B) FLUORANTHENE	6.5J	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	4.1J	11	2.8
CHRYSENE	4.2J	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	7.7J	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	3.3J	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	7.1J	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	4.3J	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	284	369.9	76.9	40-130
2-FLUOROBIPHENYL	263	369.9	71.1	45-130
TERPHENYL-D14	290	369.9	78.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 15:57
Sample ID:   SL-566-SA5C-SB-0.0-0.5            Date Analyzed: 05/16/12 20:29
Lab Samp ID: E055-06                           Dilution Factor: 2
Lab File ID: REJ384                            Matrix          : SOIL
Ext Btch ID: SVE026S                           % Moisture     : 7.1
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	29	22	5.4
ACENAPHTHYLENE	ND	22	5.4
ANTHRACENE	36	22	5.4
BENZO (A) ANTHRACENE	110	22	5.4
BENZO (A) PYRENE	150	22	5.4
BENZO (B) FLUORANTHENE	170	22	5.4
BENZO (K) FLUORANTHENE	63	22	5.4
BENZO (G, H, I) PERYLENE	96	22	5.4
CHRYSENE	130	22	5.4
DIBENZO (A, H) ANTHRACENE	24	22	5.4
FLUORANTHENE	280	22	5.4
FLUORENE	17J	22	5.4
INDENO (1, 2, 3-CD) PYRENE	77	22	5.4
NAPHTHALENE	ND	22	5.4
PHENANTHRENE	190	22	5.4
2-METHYLNAPHTHALENE	ND	22	5.4
1-METHYLNAPHTHALENE	ND	22	5.4
N-NITROSODIMETHYLAMINE	ND	22	5.4
PYRENE	280	22	5.4
AZOBENZENE	ND	11	5.4
BENZO (E) PYRENE	95	11	5.4
BIPHENYL	ND	11	5.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	324	358.8	90.3	40-130
2-FLUOROBIPHENYL	298	358.8	83.0	45-130
TERPHENYL-D14	338	358.8	94.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/15/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 15:57
Sample ID    : MBLK1S                            Date Analyzed: 05/16/12 15:27
Lab Samp ID  : SVE026SB                         Dilution Factor: 1
Lab File ID  : REJ368                           Matrix          : SOIL
Ext Btch ID  : SVE026S                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	300	333.3	89.9	40-130
2-FLUOROBIPHENYL	277	333.3	83.0	45-130
TERPHENYL-D14	319	333.3	95.6	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E055  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE026SB SVE026SL SVE026SC  
LAB FILE ID: REJ368 REJ369 REJ370  
DATE EXTRACTED: 05/15/1215:57 05/15/1215:57 05/15/1215:57 DATE COLLECTED: NA  
DATE ANALYZED: 05/16/1215:27 05/16/1215:45 05/16/1216:04 DATE RECEIVED: 05/15/12  
PREP. BATCH: SVE026S SVE026S SVE026S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	321	96	333	332	100	4	10-130	50
Acenaphthylene	ND	333	366	110	333	380	114	4	20-130	50
Anthracene	ND	333	291	87	333	308	92	6	20-130	50
Benzo (a) anthracene	ND	333	315	95	333	355	107	12	30-130	50
Benzo (a) pyrene	ND	333	358	108	333	380	114	6	30-130	50
Benzo (b) fluoranthene	ND	333	371	111	333	408	122	10	40-130	50
Benzo (k) fluoranthene	ND	333	362	109	333	368	110	2	30-140	50
Benzo (g, h, i) perylene	ND	333	394	118	333	414	124	5	30-140	50
Chrysene	ND	333	316	95	333	355	107	12	30-140	50
Dibenzo (a, h) anthracene	ND	333	395	119	333	416	125	5	40-140	50
Fluoranthene	ND	333	320	96	333	361	108	12	30-130	50
Fluorene	ND	333	358	107	333	366	110	2	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	397	119	333	420	126	5	20-160	50
Naphthalene	ND	333	294	88	333	311	93	6	10-130	50
Phenanthrene	ND	333	292	88	333	309	93	6	20-130	50
2-Methylnaphthalene	ND	333	324	97	333	341	102	5	30-150	50
1-Methylnaphthalene	ND	333	323	97	333	339	102	5	30-150	50
N-Nitrosodimethylamine	ND	333	327	98	333	346	104	6	30-150	50
Pyrene	ND	333	305	91	333	347	104	13	20-150	50
Azobenzene	ND	333	303	91	333	314	94	4	30-150	50
Benzo (e) pyrene	ND	333	331	99	333	341	102	3	30-150	50
Biphenyl	ND	333	293	88	333	291	87	1	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	311	93	333	300	90	40-130
2-Fluorobiphenyl	333	278	84	333	266	80	45-130
Terphenyl-d14	333	293	88	333	307	92	45-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/10/12 15:15
Sample ID:   SL-536-SA5C-SB-0.0-0.5           Date Analyzed: 05/11/12 10:46
Lab Samp ID: E055-01                           Dilution Factor: 1
Lab File ID: LE10070A                          Matrix          : SOIL
Ext Btch ID: DSE014S                            % Moisture     : 7.2
Calib. Ref.: LE10063A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.5	107.8	69.2	50-150
HEXACOSANE	21.0	26.94	77.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/10/12 15:15
Sample ID:   SL-547-SA5C-SB-0.0-0.5            Date Analyzed: 05/11/12 11:36
Lab Samp ID: E055-02                            Dilution Factor: 1
Lab File ID: LE10073A                          Matrix          : SOIL
Ext Btch ID: DSE014S                           % Moisture     : 12.5
Calib. Ref.: LE10063A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	21	5.7	2.9
EFH(C30-C40)	56	11	5.7
TOTAL EFH(C8-C40)	77	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.5	114.3	68.7	50-150
HEXACOSANE	23.0	28.57	80.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/10/12 15:15
Sample ID:   SL-548-SA5C-SB-0.0-0.5            Date Analyzed: 05/11/12 11:53
Lab Samp ID: E055-03                            Dilution Factor: 1
Lab File ID: LE10074A                          Matrix          : SOIL
Ext Btch ID: DSE014S                            % Moisture     : 14.3
Calib. Ref.: LE10063A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	43	5.8	2.9
EFH(C30-C40)	92	12	5.8
TOTAL EFH(C8-C40)	140	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.2	116.7	67.0	50-150
HEXACOSANE	25.1	29.17	85.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/10/12 15:15
Sample ID:   SL-671-SA5C-SB-0.0-0.5           Date Analyzed: 05/11/12 11:03
Lab Samp ID: E055-04                           Dilution Factor: 1
Lab File ID: LE10071A                          Matrix          : SOIL
Ext Btch ID: DSE014S                            % Moisture     : 5.5
Calib. Ref.: LE10063A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.6
EFH(C12-C14)	ND	5.3	2.6
EFH(C15-C20)	ND	5.3	2.6
EFH(C21-C30)	5.5	5.3	2.6
EFH(C30-C40)	29	11	5.3
TOTAL EFH(C8-C40)	35	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.5	105.8	69.4	50-150
HEXACOSANE	21.3	26.46	80.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/10/12 15:15
Sample ID:   SL-673-SA5C-SB-0.0-0.5           Date Analyzed: 05/11/12 11:20
Lab Samp ID: E055-05                           Dilution Factor: 1
Lab File ID: LE10072A                          Matrix          : SOIL
Ext Btch ID: DSE014S                           % Moisture     : 9.9
Calib. Ref.: LE10063A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	5.9	5.5	2.8
EFH(C30-C40)	20	11	5.5
TOTAL EFH(C8-C40)	26	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.0	111.0	68.4	50-150
HEXACOSANE	21.7	27.75	78.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/10/12
Batch No.    : 12E055                             Date Extracted: 05/10/12 15:15
Sample ID    : MBLK1S                             Date Analyzed: 05/11/12 08:30
Lab Samp ID  : DSE014SB                           Dilution Factor: 1
Lab File ID  : LE10062A                           Matrix          : SOIL
Ext Btch ID  : DSE014S                             % Moisture      : NA
Calib. Ref.  : LE10051A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	68.5	100.0	68.5	50-150
HEXACOSANE	18.8	25.00	75.1	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E055  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE014SB DSE014SL DSE014SC  
LAB FILE ID: LE10062A LE10060A LE10061A  
DATE EXTRACTED: 05/10/1215:15 05/10/1215:15 05/10/1215:15 DATE COLLECTED: NA  
DATE ANALYZED: 05/11/1208:30 05/11/1207:56 05/11/1208:13 DATE RECEIVED: 05/10/12  
PREP. BATCH: DSE014S DSE014S DSE014S  
CALIB. REF: LE10051A LE10051A LE10051A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	481	96	500	488	98	1	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	78.0	78	100	74.5	74	50-150
Hexacosane	25.0	20.5	82	25.0	19.6	78	50-150

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/09/12 09:15
Sample ID    : SL-536-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 12:01
Lab Samp ID  : E055-01                           Dilution Factor: 1
Lab File ID  : BE09010A                         Matrix          : SOIL
Ext Btch ID  : MEE002S                          % Moisture     : 7.2
Calib. Ref.  : BE09006A                         Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	540	270
ISOPROPANOL	ND	540	270
METHANOL	ND	540	270

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 05/08/12
Project     : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.   : 12E055                           Date Extracted: 05/09/12 09:15
Sample ID:  SL-547-SA5C-SB-0.0-0.5           Date Analyzed: 05/09/12 12:19
Lab Samp ID: E055-02                          Dilution Factor: 1
Lab File ID: BE09011A                        Matrix          : SOIL
Ext Btch ID: MEE002S                          % Moisture     : 12.5
Calib. Ref.: BE09006A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	570	290
ISOPROPANOL	ND	570	290
METHANOL	ND	570	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/09/12 09:15
Sample ID    : SL-548-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 13:02
Lab Samp ID  : E055-03                           Dilution Factor: 1
Lab File ID  : BE09012A                         Matrix          : SOIL
Ext Btch ID  : MEE002S                           % Moisture     : 14.3
Calib. Ref.  : BE09006A                         Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/09/12
Batch No.    : 12E055                             Date Extracted: 05/09/12 09:15
Sample ID    : MBLK1S                             Date Analyzed: 05/09/12 11:10
Lab Samp ID  : MEE002SB                           Dilution Factor: 1
Lab File ID  : BE09007A                           Matrix          : SOIL
Ext Btch ID  : MEE002S                             % Moisture      : NA
Calib. Ref.  : BE09006A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E055  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEE002SB MEE002SL MEE002SC  
LAB FILE ID: BE09007A BE09008A BE09009A  
DATE EXTRACTED: 05/09/1209:15 05/09/1209:15 05/09/1209:15 DATE COLLECTED: NA  
DATE ANALYZED: 05/09/1211:10 05/09/1211:28 05/09/1211:44 DATE RECEIVED: 05/09/12  
PREP. BATCH: MEE002S MEE002S MEE002S  
CALIB. REF: BE09006A BE09006A BE09006A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	9030	90	10000	9320	93	3	50-150	50
Isopropanol	ND	10000	9880	99	10000	10700	107	8	50-150	50
Methanol	ND	10000	9460	95	10000	9890	99	4	50-150	50

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/08/12
Project     : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.   : 12E055                           Date Extracted: 05/09/12 09:20
Sample ID:  SL-536-SA5C-SB-0.0-0.5           Date Analyzed: 05/09/12 14:48
Lab Samp ID: E055-01                          Dilution Factor: 1
Lab File ID: TE09011A                        Matrix          : SOIL
Ext Btch ID: PEE001S                         % Moisture     : 7.2
Calib. Ref.: TE09005A                       Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	8.1
ETHYLENE GLYCOL	ND	11	5.4
PROPYLENE GLYCOL	ND	11	5.4

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/08/12
Project     : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.   : 12E055                           Date Extracted: 05/09/12 09:20
Sample ID   : SL-547-SA5C-SB-0.0-0.5          Date Analyzed: 05/09/12 15:01
Lab Samp ID: E055-02                           Dilution Factor: 1
Lab File ID: TE09012A                          Matrix          : SOIL
Ext Btch ID: PEE001S                            % Moisture     : 12.5
Calib. Ref.: TE09005A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.6
ETHYLENE GLYCOL	ND	11	5.7
PROPYLENE GLYCOL	ND	11	5.7

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/08/12
Project     : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.   : 12E055                           Date Extracted: 05/09/12 09:20
Sample ID:  SL-548-SA5C-SB-0.0-0.5           Date Analyzed: 05/09/12 15:13
Lab Samp ID: E055-03                          Dilution Factor: 1
Lab File ID: TE09013A                        Matrix          : SOIL
Ext Btch ID: PEE001S                          % Moisture     : 14.3
Calib. Ref.: TE09005A                        Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	18	8.8
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.   : 12E055                           Date Extracted: 05/09/12 09:20
Sample ID   : MBLK1S                           Date Analyzed: 05/09/12 14:30
Lab Samp ID : PEE001SB                         Dilution Factor: 1
Lab File ID : TE09010A                        Matrix          : SOIL
Ext Btch ID : PEE001S                          % Moisture     : NA
Calib. Ref. : TE09005A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E055  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEE001SB PEE001SX PEE001SY  
LAB FILE ID: TE09010A TE09008A TE09009A  
DATE EXTRACTED: 05/09/1209:20 05/09/1209:20 05/09/1209:20 DATE COLLECTED: NA  
DATE ANALYZED: 05/09/1214:30 05/09/1213:38 05/09/1214:09 DATE RECEIVED: 05/09/12  
PREP. BATCH: PEE001S PEE001S PEE001S  
CALIB. REF: TE09005A TE09005A TE09005A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	43.4	87	50.0	45.9	92	6	50-150	50
Ethylene Glycol	ND	50.0	41.5	83	50.0	43.2	86	4	50-150	50
Propylene Glycol	ND	25.0	22.1	88	25.0	23.4	94	6	50-150	50

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 12:46
Sample ID:   SL-536-SA5C-SB-0.0-0.5            Date Analyzed: 05/19/12 01:38
Lab Samp ID: E055-01                           Dilution Factor: 1
Lab File ID: SE18036A                          Matrix          : SOIL
Ext Btch ID: CPE019S                            % Moisture     : 7.2
Calib. Ref.: SE18032A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.52   (16.41)	14.36	94.1   (114)	45-120
TETRACHLORO-M-XYLENE	14.23   (14.78)	14.36	99.1   (103)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 12:46
Sample ID:   SL-547-SA5C-SB-0.0-0.5            Date Analyzed: 05/19/12 02:12
Lab Samp ID: E055-02                            Dilution Factor: 1
Lab File ID: SE18037A                          Matrix          : SOIL
Ext Btch ID: CPE019S                           % Moisture     : 12.5
Calib. Ref.: SE18032A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.31   (14.99)	15.23	80.8   (98.4)	45-120
TETRACHLORO-M-XYLENE	15.48   (15.53)	15.23	102   (102)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/08/12
Project     : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.   : 12E055                           Date Extracted: 05/15/12 12:46
Sample ID:  SL-548-SA5C-SB-0.0-0.5           Date Analyzed: 05/19/12 02:46
Lab Samp ID: E055-03                           Dilution Factor: 1
Lab File ID: SE18038A                          Matrix          : SOIL
Ext Btch ID: CPE019S                           % Moisture     : 14.3
Calib. Ref.: SE18032A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.35   (15.42)	15.55	85.8   (99.1)	45-120
TETRACHLORO-M-XYLENE	16.01   (16.15)	15.55	103   (104)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 12:46
Sample ID    : SL-671-SA5C-SB-0.0-0.5          Date Analyzed: 05/19/12 03:20
Lab Samp ID  : E055-04                          Dilution Factor: 1
Lab File ID  : SE18039A                        Matrix          : SOIL
Ext Btch ID  : CPE019S                         % Moisture     : 5.5
Calib. Ref.  : SE18032A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	41J   (46)	42	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIIPHENYL	13.51   (16.19)	14.11	95.8   (115)	45-120
TETRACHLORO-M-XYLENE	14.75   (14.81)	14.11	105   (105)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 12:46
Sample ID:   SL-673-SA5C-SB-0.0-0.5           Date Analyzed: 05/19/12 03:55
Lab Samp ID: E055-05                           Dilution Factor: 1
Lab File ID: SE18040A                          Matrix          : SOIL
Ext Btch ID: CPE019S                            % Moisture     : 9.9
Calib. Ref.: SE18032A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	60   (64)	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	14.68   (16.42)	14.79	99.2   (111)	45-120
TETRACHLORO-M-XYLENE	16.00   (16.02)	14.79	108   (108)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 12:46
Sample ID    : SL-566-SA5C-SB-0.0-0.5          Date Analyzed: 05/19/12 04:29
Lab Samp ID  : E055-06                           Dilution Factor: 1
Lab File ID  : SE18041A                           Matrix          : SOIL
Ext Btch ID  : CPE019S                            % Moisture     : 7.1
Calib. Ref.  : SE18032A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.34   (13.40)	14.35	79.0   (93.4)	45-120
TETRACHLORO-M-XYLENE	14.24   (14.44)	14.35	99.3   (101)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.    : 12E055                           Date Extracted: 05/15/12 12:46
Sample ID:   SL-644-SA5C-SB-1.0-2.0           Date Analyzed: 05/19/12 05:03
Lab Samp ID: E055-07                           Dilution Factor: 1
Lab File ID: SE18042A                          Matrix          : SOIL
Ext Btch ID: CPE019S                           % Moisture     : 10.0
Calib. Ref.: SE18032A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	63   (67)	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	12.82   (14.38)	14.81	86.5   (97.1)	45-120
TETRACHLORO-M-XYLENE	14.11   (14.58)	14.81	95.3   (98.4)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/08/12
Project     : SSFL PHASE 3                     Date Received: 05/08/12
Batch No.   : 12E055                           Date Extracted: 05/15/12 12:46
Sample ID:  SL-644-SA5C-SB-2.0-3.0           Date Analyzed: 05/19/12 05:37
Lab Samp ID: E055-08                          Dilution Factor: 1
Lab File ID: SE18043A                         Matrix          : SOIL
Ext Btch ID: CPE019S                          % Moisture     : 7.9
Calib. Ref.: SE18032A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	78   (82)	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.31   (14.59)	14.47	92.0   (101)	45-120
TETRACHLORO-M-XYLENE	14.09   (14.38)	14.47	97.4   (99.3)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/15/12
Batch No.  : 12E055                             Date Extracted: 05/15/12 12:46
Sample ID  : MBLK1S                             Date Analyzed: 05/18/12 18:47
Lab Samp ID: 60E019SB                          Dilution Factor: 1
Lab File ID: SE18024A                          Matrix          : SOIL
Ext Btch ID: CPE019S                           % Moisture     : NA
Calib. Ref.: SE18016A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	14.02   (15.11)	13.33	105   (113)	45-120
TETRACHLORO-M-XYLENE	12.68   (12.93)	13.33	95.1   (97.0)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E055  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E019SB 60E019SL 60E019SC  
LAB FILE ID: SE18024A SE18025A SE18026A  
DATE EXTRACTED: 05/15/1212:46 05/15/1212:46 05/15/1212:46 DATE COLLECTED: NA  
DATE ANALYZED: 05/18/1218:47 05/18/1219:22 05/18/1219:56 DATE RECEIVED: 05/15/12  
PREP. BATCH: CPE019S CPE019S CPE019S  
CALIB. REF: SE18016A SE18016A SE18016A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(183)   182	(110)   109	167	(185)   185	(111)   111	(1)   2	50-130	50
Aroclor 1260	(ND)   ND	167	189   (197)	113   (118)	167	192   (202)	115   (121)	2   (3)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(105)   103	(126)   124	83.3	(106)   104	(127)   125	(1)   1	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	14.26   (15.38)	107   (115)	13.33	(14.98)   16.21	(112)   122*	45-120
Tetrachloro-m-xylene	13.33	13.11   (13.33)	98.3   (100)	13.33	(13.90)   13.87	(104)   104	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E055  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: 7.9  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-644-SA5C-SB-2.0-3.0  
LAB SAMP ID: E055-08 E055-08M E055-08S  
LAB FILE ID: SE18043A SE18044A SE18045A  
DATE EXTRACTED: 05/15/1212:46 05/15/1212:46 05/15/1212:46 DATE COLLECTED: 05/08/12  
DATE ANALYZED: 05/19/1205:37 05/19/1206:11 05/19/1206:46 DATE RECEIVED: 05/08/12  
PREP. BATCH: CPE019S CPE019S CPE019S  
CALIB. REF: SE18032A SE18032A SE18032A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	181	(185)   180	(102)   99	181	(180)   177	(99)   98	(3)   2	20-160	50
Aroclor 1260	78   (82)	181	(315)   270	(131)   104	181	224   (239)	81   (87)	34   (12)	20-160	50
Aroclor 5460	(ND)   ND	90.5	102   (104)	113   (115)	90.5	101   (107)	112   (118)	1   (3)	20-160	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.47	13.14   (14.82)	90.8   (102)	14.47	13.47   (15.22)	93.1   (105)	45-120
Tetrachloro-m-xylene	14.47	13.97   (14.46)	96.5   (99.9)	14.47	14.76   (15.21)	102   (105)	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/08/12
Project     : SSFL PHASE 3                     Date Received: 05/08/12
SDG NO.    : 12E055                           Date Extracted: 05/11/12 10:15
Sample ID:  SL-536-SA5C-SB-0.0-0.5           Date Analyzed: 05/15/12 19:49
Lab Samp ID: E055-01                          Dilution Factor: 0.980
Lab File ID: 98E08063                         Matrix          : SOIL
Ext Btch ID: IME014S                          % Moisture     : 7.2
Calib. Ref.: 98E08061                         Instrument ID  : T-198
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9930	106	12.7
Antimony	0.202J	0.528	0.106
Arsenic	3.55	0.528	0.211
Barium	89.8	0.528	0.211
Beryllium	0.487J	0.528	0.0528
Boron	ND	5.28	2.64
Cadmium	0.467J	0.528	0.0528
Calcium	3000	21.1	10.6
Chromium	14.6	0.528	0.211
Cobalt	5.04	0.528	0.0528
Copper	8.21	0.528	0.211
Iron	15800	106	10.6
Lead	24.5	0.528	0.106
Magnesium	3090	10.6	5.28
Manganese	195	0.528	0.264
Molybdenum	0.368J	0.528	0.0528
Nickel	8.15	0.528	0.211
Potassium	1960	106	31.7
Selenium	ND	0.528	0.211
Silver	ND	0.528	0.0528
Sodium	99.0J	106	52.8
Strontium	20.8	0.528	0.264
Thallium	0.221J	0.422	0.0528
Tin	ND	10.6	5.28
Titanium	695	1.06	0.528
Vanadium	28.2	0.528	0.0528
Zinc	75.7	5.28	1.58
Lithium	12.7	2.11	1.06
Phosphorus	164	12.7	6.34
Zirconium	ND	5.28	2.64

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/08/12
Project     : SSFL PHASE 3                     Date Received: 05/08/12
SDG NO.    : 12E055                           Date Extracted: 05/11/12 10:15
Sample ID:  SL-547-SA5C-SB-0.0-0.5           Date Analyzed: 05/15/12 19:53
Lab Samp ID: E055-02                          Dilution Factor: 0.962
Lab File ID: 98E08064                         Matrix          : SOIL
Ext Btch ID: IME014S                          % Moisture     : 12.5
Calib. Ref.: 98E08061                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14700	110	13.2
Antimony	0.370J	0.550	0.110
Arsenic	3.98	0.550	0.220
Barium	126	0.550	0.220
Beryllium	0.613	0.550	0.0550
Boron	3.14J	5.50	2.75
Cadmium	0.362J	0.550	0.0550
Calcium	4450	22.0	11.0
Chromium	20.0	0.550	0.220
Cobalt	6.61	0.550	0.0550
Copper	12.5	0.550	0.220
Iron	20500	110	11.0
Lead	14.7	0.550	0.110
Magnesium	4170	11.0	5.50
Manganese	275	0.550	0.275
Molybdenum	0.684	0.550	0.0550
Nickel	12.3	0.550	0.220
Potassium	3150	110	33.0
Selenium	ND	0.550	0.220
Silver	0.0796J	0.550	0.0550
Sodium	90.2J	110	55.0
Strontium	27.1	0.550	0.275
Thallium	0.263J	0.440	0.0550
Tin	ND	11.0	5.50
Titanium	739	1.10	0.550
Vanadium	39.3	0.550	0.0550
Zinc	68.3	5.50	1.65
Lithium	14.6	2.20	1.10
Phosphorus	274	13.2	6.60
Zirconium	ND	5.50	2.75

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/08/12
Project    : SSFL PHASE 3                     Date Received: 05/08/12
SDG NO.    : 12E055                           Date Extracted: 05/11/12 10:15
Sample ID: SL-548-SA5C-SB-0.0-0.5           Date Analyzed: 05/15/12 19:58
Lab Samp ID: E055-03                         Dilution Factor: 0.966
Lab File ID: 98E08065                       Matrix          : SOIL
Ext Btch ID: IME014S                        % Moisture     : 14.3
Calib. Ref.: 98E08061                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13600	113	13.5
Antimony	1.64	0.564	0.113
Arsenic	4.20	0.564	0.225
Barium	111	0.564	0.225
Beryllium	0.592	0.564	0.0564
Boron	ND	5.64	2.82
Cadmium	0.515J	0.564	0.0564
Calcium	3600	22.5	11.3
Chromium	21.3	0.564	0.225
Cobalt	7.97	0.564	0.0564
Copper	10.9	0.564	0.225
Iron	20400	113	11.3
Lead	27.2	0.564	0.113
Magnesium	4070	11.3	5.64
Manganese	358	0.564	0.282
Molybdenum	0.565	0.564	0.0564
Nickel	12.4	0.564	0.225
Potassium	3420	113	33.8
Selenium	ND	0.564	0.225
Silver	0.0837J	0.564	0.0564
Sodium	93.6J	113	56.4
Strontium	21.9	0.564	0.282
Thallium	0.266J	0.451	0.0564
Tin	ND	11.3	5.64
Titanium	777	1.13	0.564
Vanadium	38.3	0.564	0.0564
Zinc	91.4	5.64	1.69
Lithium	15.7	2.25	1.13
Phosphorus	287	13.5	6.76
Zirconium	ND	5.64	2.82

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/08/12
Project      : SSFL PHASE 3                     Date Received: 05/08/12
SDG NO.     : 12E055                            Date Extracted: 05/11/12 10:15
Sample ID   : SL-671-SA5C-SB-0.0-0.5          Date Analyzed: 05/17/12 22:03
Lab Samp ID : E055-04                           Dilution Factor: 0.976
Lab File ID : 98E09114                          Matrix          : SOIL
Ext Btch ID : IME014S                            % Moisture     : 5.5
Calib. Ref. : 98E09112                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9480	103	12.4
Antimony	0.433J	0.516	0.103
Arsenic	3.30	0.516	0.207
Barium	69.6	0.516	0.207
Beryllium	0.398J	0.516	0.0516
Boron	2.95J	5.16	2.58
Cadmium	1.04	0.516	0.0516
Calcium	2390	20.7	10.3
Chromium	21.1	0.516	0.207
Cobalt	4.17	0.516	0.0516
Copper	14.2	0.516	0.207
Iron	15500	103	10.3
Lead	649	0.516	0.103
Magnesium	3550	10.3	5.16
Manganese	188	0.516	0.258
Molybdenum	0.575	0.516	0.0516
Nickel	10.9	0.516	0.207
Potassium	2280	103	31.0
Selenium	ND	0.516	0.207
Silver	0.296J	0.516	0.0516
Sodium	109	103	51.6
Strontium	20.3	0.516	0.258
Thallium	0.177J	0.413	0.0516
Tin	ND	10.3	5.16
Titanium	758	1.03	0.516
Vanadium	25.3	0.516	0.0516
Zinc	100	5.16	1.55
Lithium	15.5	2.07	1.03
Phosphorus	348	12.4	6.20
Zirconium	ND	5.16	2.58

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/08/12
Project     : SSFL PHASE 3                     Date Received: 05/08/12
SDG NO.    : 12E055                           Date Extracted: 05/11/12 10:15
Sample ID:  SL-673-SA5C-SB-0.0-0.5           Date Analyzed: 05/17/12 22:07
Lab Samp ID: E055-05                          Dilution Factor: 0.971
Lab File ID: 98E09115                         Matrix          : SOIL
Ext Btch ID: IME014S                          % Moisture     : 9.9
Calib. Ref.: 98E09112                        Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	6920	108	12.9
Antimony	0.311J	0.539	0.108
Arsenic	2.72	0.539	0.216
Barium	55.3	0.539	0.216
Beryllium	0.315J	0.539	0.0539
Boron	ND	5.39	2.69
Cadmium	2.80	0.539	0.0539
Calcium	2150	21.6	10.8
Chromium	13.6	0.539	0.216
Cobalt	3.48	0.539	0.0539
Copper	8.66	0.539	0.216
Iron	12600	108	10.8
Lead	16.4	0.539	0.108
Magnesium	2930	10.8	5.39
Manganese	142	0.539	0.269
Molybdenum	0.339J	0.539	0.0539
Nickel	7.10	0.539	0.216
Potassium	1930	108	32.3
Selenium	ND	0.539	0.216
Silver	0.146J	0.539	0.0539
Sodium	84.4J	108	53.9
Strontium	16.7	0.539	0.269
Thallium	0.165J	0.431	0.0539
Tin	ND	10.8	5.39
Titanium	584	1.08	0.539
Vanadium	20.5	0.539	0.0539
Zinc	229	5.39	1.62
Lithium	13.2	2.16	1.08
Phosphorus	292	12.9	6.47
Zirconium	ND	5.39	2.69

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/11/12
SDG NO.    : 12E055                             Date Extracted: 05/11/12 10:15
Sample ID  : MBLK1S                             Date Analyzed: 05/15/12 18:04
Lab Samp ID: IME014SB                           Dilution Factor: 1
Lab File ID: 98E08040                           Matrix          : SOIL
Ext Btch ID: IME014S                             % Moisture      : NA
Calib. Ref.: 98E08038                           Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E055  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME014SB IME014SL IME014SC  
LAB FILE ID: 98E08040 98E08041 98E08042  
DATIME EXTRACTD: 05/11/1210:15 05/11/1210:15 05/11/1210:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/15/1218:04 05/15/1218:09 05/15/1218:13 DATE RECEIVED: 05/11/12  
PREP. BATCH: IME014S IME014S IME014S  
CALIB. REF: 98E08038 98E08038 98E08038

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2150	86	2500	2450	98	13	80-120	20
Antimony	ND	25.0	21.4	85	25.0	24.3	97	13	80-120	20
Arsenic	ND	25.0	21.2	85	25.0	24.0	96	12	80-120	20
Barium	ND	25.0	22.0	88	25.0	25.1	100	13	80-120	20
Beryllium	ND	25.0	20.8	83	25.0	24.1	96	15	80-120	20
Boron	ND	25.0	22.3	89	25.0	24.7	99	10	80-120	20
Cadmium	ND	25.0	22.7	91	25.0	24.0	96	6	80-120	20
Calcium	ND	2500	2250	90	2500	2600	104	14	80-120	20
Chromium	ND	25.0	20.8	83	25.0	24.4	98	16	80-120	20
Cobalt	ND	25.0	21.3	85	25.0	24.5	98	14	80-120	20
Copper	ND	25.0	21.0	84	25.0	24.1	96	14	80-120	20
Iron	ND	2500	2250	90	2500	2560	102	13	80-120	20
Lead	ND	25.0	22.6	90	25.0	24.5	98	8	80-120	20
Magnesium	ND	2500	2130	85	2500	2410	96	12	80-120	20
Manganese	ND	25.0	21.8	87	25.0	24.8	99	13	80-120	20
Molybdenum	ND	25.0	21.6	87	25.0	24.5	98	12	80-120	20
Nickel	ND	25.0	20.7	83	25.0	24.0	96	15	80-120	20
Potassium	ND	2500	2320	93	2500	2650	106	13	80-120	20
Selenium	ND	25.0	21.6	86	25.0	23.3	93	8	80-120	20
Silver	ND	25.0	24.0	96	25.0	24.2	97	1	80-120	20
Sodium	ND	2500	2220	89	2500	2460	98	10	80-120	20
Strontium	ND	25.0	22.0	88	25.0	25.4	101	14	80-120	20
Thallium	ND	25.0	23.4	93	25.0	24.4	98	4	80-120	20
Tin	ND	25.0	24.5	98	25.0	27.3	109	11	80-120	20
Titanium	ND	25.0	21.8	87	25.0	25.3	101	15	80-120	20
Vanadium	ND	25.0	21.2	85	25.0	24.6	98	15	80-120	20
Zinc	ND	50.0	43.4	87	50.0	46.1	92	6	80-120	20
Lithium	ND	25.0	22.3	89	25.0	24.7	99	10	80-120	20
Phosphorus	ND	250	212	85	250	229	92	8	80-120	20
Zirconium	ND	25.0	20.9	83	25.0	23.5	94	12	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E055  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILTN FACTR: 0.985 0.985  
SAMPLE ID: SL-603-SA5C-SB-0.0-0.5  
CONTROL NO.: E034-03 E034-03A  
LAB FILE ID: 98E08044 98E08043  
DATIME EXTRACTD: 05/11/1210:15 05/11/1210:15 DATE COLLECTED: 05/03/12  
DATIME ANALYZD: 05/15/1218:22 05/15/1218:18 DATE RECEIVED: 05/03/12  
PREP. BATCH: IME014S IME014S  
CALIB. REF: 98E08038 98E08038

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	8390	2680	11200	105	75-125
Antimony	0.266J	26.8	27.3	101	75-125
Arsenic	4.59	26.8	30.2	96	75-125
Barium	80.6	26.8	111	112	75-125
Beryllium	0.475J	26.8	27.2	100	75-125
Boron	ND	26.8	28.8	108	75-125
Cadmium	0.288J	26.8	26.9	100	75-125
Calcium	2370	2680	5260	108	75-125
Chromium	13.9	26.8	39.3	95	75-125
Cobalt	4.39	26.8	30.0	96	75-125
Copper	7.39	26.8	31.7	91	75-125
Iron	18200	2680	20900	102	75-125
Lead	10.6	26.8	37.1	99	75-125
Magnesium	2840	2680	5520	100	75-125
Manganese	234	26.8	259	93	75-125
Molybdenum	1.40	26.8	28.8	103	75-125
Nickel	8.50	26.8	32.8	91	75-125
Potassium	2700	2680	5700	112	75-125
Selenium	ND	26.8	26.0	97	75-125
Silver	ND	26.8	26.4	99	75-125
Sodium	63.5J	2680	2740	100	75-125
Strontium	16.9	26.8	44.2	102	75-125
Thallium	0.260J	26.8	27.0	100	75-125
Tin	ND	26.8	30.6	114	75-125
Titanium	628	26.8	662	126*	75-125
Vanadium	26.5	26.8	52.5	97	75-125
Zinc	45.4	53.5	94.5	92	75-125
Lithium	13.7	26.8	42.5	108	75-125
Phosphorus	273	268	550	103	75-125
Zirconium	ND	26.8	26.4	99	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E055  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 8.0  
 DILUTION FACTOR: 0.985 4.93  
 SAMPLE ID: SL-603-SA5C-SB SL-603-SA5C-SB  
 EMAX SAMP ID: E034-03 E034-03J  
 LAB FILE ID: 98E08044 98E08045  
 DATE EXTRACTED: 05/11/1210:15 05/11/1210:15 DATE COLLECTED: 05/03/12  
 DATE ANALYZED: 05/15/1218:22 05/15/1218:27 DATE RECEIVED: 05/03/12  
 PREP. BATCH: IME014S IME014S  
 CALIB. REF: 98E08038 98E08038

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	8390	8940	6	10
Antimony	0.266J	ND	NA	10
Arsenic	4.59	4.74	3	10
Barium	80.6	78.9	2	10
Beryllium	0.475J	0.433J	NA	10
Boron	ND	ND	0	10
Cadmium	0.288J	0.287J	NA	10
Calcium	2370	2490	5	10
Chromium	13.9	14.5	4	10
Cobalt	4.39	4.71	7	10
Copper	7.39	7.88	7	10
Iron	18200	19200	6	10
Lead	10.6	10.7	2	10
Magnesium	2840	3030	7	10
Manganese	234	245	5	10
Molybdenum	1.40	1.39J	NA	10
Nickel	8.50	8.98	6	10
Potassium	2700	2810	4	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	63.5J	ND	NA	10
Strontium	16.9	16.5	2	10
Thallium	0.260J	0.289J	NA	10
Tin	ND	ND	0	10
Titanium	628	631	0	10
Vanadium	26.5	27.5	4	10
Zinc	45.4	49.1	8	10
Lithium	13.7	13.3	3	10
Phosphorus	273	298	9	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E055

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE015SB	ND	1	NA	0.100	0.0500	05/17/1214:33	05/17/1211:15	M47E014010	M47E014008	HGE015S	NA	05/17/12
LCS1S	HGE015SL	0.867	1	NA	0.100	0.0500	05/17/1214:35	05/17/1211:15	M47E014011	M47E014008	HGE015S	NA	05/17/12
LCD1S	HGE015SC	0.862	1	NA	0.100	0.0500	05/17/1214:37	05/17/1211:15	M47E014012	M47E014008	HGE015S	NA	05/17/12
SL-536-SA5C-SB-0.0-0.5	E055-01	ND	0.993	7.2	0.107	0.0535	05/17/1215:26	05/17/1211:15	M47E014035	M47E014032	HGE015S	05/08/12	05/08/12
SL-547-SA5C-SB-0.0-0.5	E055-02	ND	0.990	12.5	0.113	0.0566	05/17/1215:28	05/17/1211:15	M47E014036	M47E014032	HGE015S	05/08/12	05/08/12
SL-548-SA5C-SB-0.0-0.5	E055-03	ND	1.00	14.3	0.117	0.0583	05/17/1215:31	05/17/1211:15	M47E014037	M47E014032	HGE015S	05/08/12	05/08/12
SL-671-SA5C-SB-0.0-0.5	E055-04	0.234	0.988	5.5	0.105	0.0523	05/17/1215:33	05/17/1211:15	M47E014038	M47E014032	HGE015S	05/08/12	05/08/12
SL-673-SA5C-SB-0.0-0.5	E055-05	ND	0.985	9.9	0.109	0.0547	05/17/1215:35	05/17/1211:15	M47E014039	M47E014032	HGE015S	05/08/12	05/08/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E055  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE015SB HGE015SL HGE015SC  
LAB FILE ID: M47E014010 M47E014011 M47E014012  
DATIME EXTRCTD: 05/17/1211:15 05/17/1211:15 05/17/1211:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/17/1214:33 05/17/1214:35 05/17/1214:37 DATE RECEIVED: 05/17/12  
PREP. BATCH: HGE015S HGE015S HGE015S  
CALIB. REF: M47E014008 M47E014008 M47E014008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.867	104	.833	.862	103	1	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E055  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILTN FACTR: 0.990 0.990  
SAMPLE ID: SL-603-SA5C-SB-0.0-0.5  
CONTROL NO.: E034-03 E034-03A  
LAB FILE ID: M47E014019 M47E014018  
DATIME EXTRCTD: 05/17/1211:15 05/17/1211:15 DATE COLLECTED: 05/03/12  
DATIME ANALYZD: 05/17/1214:52 05/17/1214:50 DATE RECEIVED: 05/03/12  
PREP. BATCH: HGE015S HGE015S  
CALIB. REF: M47E014008 M47E014008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	.31	.896	1.21	100	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E055  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 8.0  
 DILUTION FACTOR: 0.990 4.95  
 SAMPLE ID: SL-603-SA5C-SB-0.0- SL-603-SA5C-SB-0.0-  
 EMAX SAMP ID: E034-03 E034-03J  
 LAB FILE ID: M47E014019 M47E014022  
 DATE EXTRACTED: 05/17/1211:15 05/17/1211:15 DATE COLLECTED: 05/03/12  
 DATE ANALYZED: 05/17/1214:52 05/17/1214:58 DATE RECEIVED: 05/03/12  
 PREP. BATCH: HGE015S HGE015S  
 CALIB. REF: M47E014008 M47E014020

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	0.310	0.300J	NA	10

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E055  
 =====

Matrix : SOIL  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCE004SB	ND	1	NA	1.00	0.500	05/18/1211:25	05/16/1211:53	IE18003	IE18001	HCE004S	NA	05/16/12
MBLK1S	HCE004SQ	ND	1	NA	1.00	0.500	05/18/1211:35	05/16/1211:53	IE18004	IE18001	HCE004S	NA	05/16/12
LCS1S	CSE004SL	10.9	1	NA	1.00	0.500	05/18/1212:27	05/16/1211:53	IE18009	IE18001	HCE004S	NA	05/16/12
LCS1S	CSE004SX	10.4	1	NA	1.00	0.500	05/18/1211:56	05/16/1211:53	IE18006	IE18001	HCE004S	NA	05/16/12
LCS2S	CIE004SL	233	20	NA	20.0	10.0	05/18/1212:06	05/16/1211:53	IE18007	IE18001	HCE004S	NA	05/16/12
LCS2S	CIE004SX	231	20	NA	20.0	10.0	05/18/1212:17	05/16/1211:53	IE18008	IE18001	HCE004S	NA	05/16/12
SL-547-SA5C-SB-0.0-0.5	E055-02	ND	1	12.5	1.14	0.571	05/18/1212:37	05/16/1211:53	IE18010	IE18001	HCE004S	05/08/1210:10	05/08/12
SL-547-SA5C-SB-0.0-0.5	E055-02R	ND	1	12.5	1.14	0.571	05/18/1212:48	05/16/1211:53	IE18011	IE18001	HCE004S	05/08/1210:10	05/08/12
SL-548-SA5C-SB-0.0-0.5	E055-03	ND	1	14.3	1.17	0.583	05/18/1213:29	05/16/1211:53	IE18014	IE18012	HCE004S	05/08/1209:45	05/08/12
SL-548-SA5C-SB-0.0-0.5	E055-03R	ND	1	14.3	1.17	0.583	05/18/1213:40	05/16/1211:53	IE18015	IE18012	HCE004S	05/08/1209:45	05/08/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E055  
METHOD: 7199

=====

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	20		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	HCE004SQ	CIE004SX		
LAB FILE ID:	IE18004	IE18008		
DATE EXTRACTED:	05/16/1211:53	05/16/1211:53	DATE COLLECTED:	NA
DATE ANALYZED:	05/18/1211:35	05/18/1212:17	DATE RECEIVED:	05/16/12
PREP. BATCH:	HCE004S	HCE004S		
CALIB. REF:	IE18001	IE18001		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	261	231	88	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E055  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE004SQ CSE004SX  
LAB FILE ID: IE18004 IE18006  
DATE EXTRACTED: 05/16/1211:53 05/16/1211:53 DATE COLLECTED: NA  
DATE ANALYZED: 05/18/1211:35 05/18/1211:56 DATE RECEIVED: 05/16/12  
PREP. BATCH: HCE004S HCE004S  
CALIB. REF: IE18001 IE18001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	10.4	104	80-120

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E055  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-536-SA5C-SB-0.0-0.5	E055-01	8.11	1	NA	NA	NA	05/09/1216:42	05/09/1216:42	12PHE009S01	PHE009S	PHE009S	05/08/1211:25	05/08/12
SL-547-SA5C-SB-0.0-0.5	E055-02	7.72	1	NA	NA	NA	05/09/1216:44	05/09/1216:42	12PHE009S02	PHE009S	PHE009S	05/08/1210:10	05/08/12
SL-548-SA5C-SB-0.0-0.5	E055-03	7.11	1	NA	NA	NA	05/09/1216:45	05/09/1216:42	12PHE009S03	PHE009S	PHE009S	05/08/1209:45	05/08/12
SL-671-SA5C-SB-0.0-0.5	E055-04	7.02	1	NA	NA	NA	05/09/1216:47	05/09/1216:42	12PHE009S04	PHE009S	PHE009S	05/08/1208:30	05/08/12
SL-673-SA5C-SB-0.0-0.5	E055-05	7.12	1	NA	NA	NA	05/09/1216:48	05/09/1216:42	12PHE009S05	PHE009S	PHE009S	05/08/1208:50	05/08/12
SL-673-SA5C-SB-0.0-0.5DUPE	E055-05D	7.10	1	NA	NA	NA	05/09/1216:51	05/09/1216:42	12PHE009S06	PHE009S	PHE009S	05/08/1208:50	05/08/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E055	DATE RECEIVED:	05/08/12
SAMPLE ID:	SL-673-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	05/09/1216:42
CONTROL NO.:	E055-05D	DATE ANALYZED:	05/09/1216:51

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	7.12	7.10	0.02	0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.    : 12E067                           Date Extracted: 05/15/12 15:57
Sample ID    : SL-542-SA5C-SB-0.0-0.5          Date Analyzed: 05/16/12 20:47
Lab Samp ID  : E067-01                          Dilution Factor: 2
Lab File ID  : REJ385                            Matrix          : SOIL
Ext Btch ID  : SVE026S                           % Moisture     : 1.7
Calib. Ref.  : RAJ290                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	20	5.1
ACENAPHTHYLENE	ND	20	5.1
ANTHRACENE	ND	20	5.1
BENZO (A) ANTHRACENE	12J	20	5.1
BENZO (A) PYRENE	18J	20	5.1
BENZO (B) FLUORANTHENE	35	20	5.1
BENZO (K) FLUORANTHENE	9.0J	20	5.1
BENZO (G, H, I) PERYLENE	20J	20	5.1
CHRYSENE	25	20	5.1
DIBENZO (A, H) ANTHRACENE	ND	20	5.1
FLUORANTHENE	35	20	5.1
FLUORENE	ND	20	5.1
INDENO (1, 2, 3-CD) PYRENE	12J	20	5.1
NAPHTHALENE	6.6J	20	5.1
PHENANTHRENE	14J	20	5.1
2-METHYLNAPHTHALENE	ND	20	5.1
1-METHYLNAPHTHALENE	ND	20	5.1
N-NITROSODIMETHYLAMINE	ND	20	5.1
PYRENE	34	20	5.1
AZOBENZENE	ND	10	5.1
BENZO (E) PYRENE	22	10	5.1
BIPHENYL	ND	10	5.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	275	339.1	81.2	40-130
2-FLUOROBIPHENYL	259	339.1	76.4	45-130
TERPHENYL-D14	298	339.1	87.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.    : 12E067                           Date Extracted: 05/18/12 15:20
Sample ID    : SL-542-SA5C-SB-1.0-2.0          Date Analyzed: 05/18/12 18:39
Lab Samp ID  : E067-02R                         Dilution Factor: 1
Lab File ID  : REJ456                           Matrix          : SOIL
Ext Btch ID  : SVE036S                          % Moisture     : 11.1
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	220	374.9	58.6	40-130
2-FLUOROBIPHENYL	221	374.9	58.9	45-130
TERPHENYL-D14	295	374.9	78.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.    : 12E067                           Date Extracted: 05/18/12 15:20
Sample ID    : SL-613-SA5C-SB-0.0-0.5          Date Analyzed: 05/18/12 18:57
Lab Samp ID  : E067-05R                         Dilution Factor: 1
Lab File ID  : REJ457                           Matrix          : SOIL
Ext Btch ID  : SVE036S                          % Moisture     : 4.1
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.6
ACENAPHTHYLENE	ND	10	2.6
ANTHRACENE	ND	10	2.6
BENZO (A) ANTHRACENE	ND	10	2.6
BENZO (A) PYRENE	ND	10	2.6
BENZO (B) FLUORANTHENE	3.5J	10	2.6
BENZO (K) FLUORANTHENE	ND	10	2.6
BENZO (G, H, I) PERYLENE	ND	10	2.6
CHRYSENE	ND	10	2.6
DIBENZO (A, H) ANTHRACENE	ND	10	2.6
FLUORANTHENE	3.0J	10	2.6
FLUORENE	ND	10	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.6
NAPHTHALENE	ND	10	2.6
PHENANTHRENE	ND	10	2.6
2-METHYLNAPHTHALENE	ND	10	2.6
1-METHYLNAPHTHALENE	ND	10	2.6
N-NITROSODIMETHYLAMINE	ND	10	2.6
PYRENE	3.1J	10	2.6
AZOBENZENE	ND	5.2	2.6
BENZO (E) PYRENE	ND	5.2	2.6
BIPHENYL	ND	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	157	347.5	45.2	40-130
2-FLUOROBIPHENYL	162	347.5	46.5	45-130
TERPHENYL-D14	281	347.5	81.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/15/12
Batch No.    : 12E067                           Date Extracted: 05/15/12 15:57
Sample ID    : MBLK1S                            Date Analyzed: 05/16/12 15:27
Lab Samp ID  : SVE026SB                         Dilution Factor: 1
Lab File ID  : REJ368                           Matrix          : SOIL
Ext Btch ID  : SVE026S                          % Moisture      : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	300	333.3	89.9	40-130
2-FLUOROBIPHENYL	277	333.3	83.0	45-130
TERPHENYL-D14	319	333.3	95.6	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/18/12
Batch No.    : 12E067                           Date Extracted: 05/18/12 15:20
Sample ID    : MBLK2S                            Date Analyzed: 05/18/12 17:42
Lab Samp ID  : SVE036SB                         Dilution Factor: 1
Lab File ID  : REJ453                            Matrix          : SOIL
Ext Btch ID  : SVE036S                           % Moisture     : NA
Calib. Ref.  : RAJ290                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	285	333.3	85.6	40-130
2-FLUOROBIPHENYL	282	333.3	84.7	45-130
TERPHENYL-D14	305	333.3	91.6	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E067  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE026SB SVE026SL SVE026SC  
LAB FILE ID: REJ368 REJ369 REJ370  
DATE EXTRACTED: 05/15/1215:57 05/15/1215:57 05/15/1215:57 DATE COLLECTED: NA  
DATE ANALYZED: 05/16/1215:27 05/16/1215:45 05/16/1216:04 DATE RECEIVED: 05/15/12  
PREP. BATCH: SVE026S SVE026S SVE026S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	321	96	333	332	100	4	10-130	50
Acenaphthylene	ND	333	366	110	333	380	114	4	20-130	50
Anthracene	ND	333	291	87	333	308	92	6	20-130	50
Benzo (a) anthracene	ND	333	315	95	333	355	107	12	30-130	50
Benzo (a) pyrene	ND	333	358	108	333	380	114	6	30-130	50
Benzo (b) fluoranthene	ND	333	371	111	333	408	122	10	40-130	50
Benzo (k) fluoranthene	ND	333	362	109	333	368	110	2	30-140	50
Benzo (g, h, i) perylene	ND	333	394	118	333	414	124	5	30-140	50
Chrysene	ND	333	316	95	333	355	107	12	30-140	50
Dibenzo (a, h) anthracene	ND	333	395	119	333	416	125	5	40-140	50
Fluoranthene	ND	333	320	96	333	361	108	12	30-130	50
Fluorene	ND	333	358	107	333	366	110	2	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	397	119	333	420	126	5	20-160	50
Naphthalene	ND	333	294	88	333	311	93	6	10-130	50
Phenanthrene	ND	333	292	88	333	309	93	6	20-130	50
2-Methylnaphthalene	ND	333	324	97	333	341	102	5	30-150	50
1-Methylnaphthalene	ND	333	323	97	333	339	102	5	30-150	50
N-Nitrosodimethylamine	ND	333	327	98	333	346	104	6	30-150	50
Pyrene	ND	333	305	91	333	347	104	13	20-150	50
Azobenzene	ND	333	303	91	333	314	94	4	30-150	50
Benzo (e) pyrene	ND	333	331	99	333	341	102	3	30-150	50
Biphenyl	ND	333	293	88	333	291	87	1	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	311	93	333	300	90	40-130
2-Fluorobiphenyl	333	278	84	333	266	80	45-130
Terphenyl-d14	333	293	88	333	307	92	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E067  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2S  
LAB SAMP ID: SVE036SB SVE036SL SVE036SC  
LAB FILE ID: REJ453 REJ454 REJ455  
DATE EXTRACTED: 05/18/1215:20 05/18/1215:20 05/18/1215:20 DATE COLLECTED: NA  
DATE ANALYZED: 05/18/1217:42 05/18/1218:01 05/18/1218:20 DATE RECEIVED: 05/18/12  
PREP. BATCH: SVE036S SVE036S SVE036S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	322	97	333	319	96	1	10-130	50
Acenaphthylene	ND	333	366	110	333	362	109	1	20-130	50
Anthracene	ND	333	293	88	333	277	83	6	20-130	50
Benzo (a) anthracene	ND	333	332	100	333	304	91	9	30-130	50
Benzo (a) pyrene	ND	333	363	109	333	343	103	6	30-130	50
Benzo (b) fluoranthene	ND	333	399	120	333	384	115	4	40-130	50
Benzo (k) fluoranthene	ND	333	348	105	333	331	99	5	30-140	50
Benzo (g, h, i) perylene	ND	333	386	116	333	363	109	6	30-140	50
Chrysene	ND	333	313	94	333	286	86	9	30-140	50
Dibenzo (a, h) anthracene	ND	333	394	118	333	368	111	7	40-140	50
Fluoranthene	ND	333	339	102	333	312	94	8	30-130	50
Fluorene	ND	333	359	108	333	356	107	1	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	394	118	333	370	111	6	20-160	50
Naphthalene	ND	333	292	87	333	281	84	4	10-130	50
Phenanthrene	ND	333	295	88	333	282	84	5	20-130	50
2-Methylnaphthalene	ND	333	324	97	333	317	95	2	30-150	50
1-Methylnaphthalene	ND	333	323	97	333	317	95	2	30-150	50
N-Nitrosodimethylamine	ND	333	293	88	333	283	85	4	30-150	50
Pyrene	ND	333	325	97	333	297	89	9	20-150	50
Azobenzene	ND	333	268	80	333	264	79	1	30-150	50
Benzo (e) pyrene	ND	333	338	101	333	338	101	0	30-150	50
Biphenyl	ND	333	289	87	333	302	91	4	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	305	91	333	295	88	40-130
2-Fluorobiphenyl	333	295	88	333	289	87	45-130
Terphenyl-d14	333	340	102	333	307	92	45-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.    : 12E067                           Date Extracted: 05/14/12 15:34
Sample ID:   SL-609-SA5C-SB-0.0-0.5           Date Analyzed: 05/16/12 05:51
Lab Samp ID: E067-03                           Dilution Factor: 1
Lab File ID: LE15059A                          Matrix          : SOIL
Ext Btch ID: DSE018S                           % Moisture     : 10.9
Calib. Ref.: LE15049A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	3.3J	5.6	2.8
EFH(C30-C40)	9.7J	11	5.6
TOTAL EFH(C8-C40)	13	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.6	112.2	67.3	50-150
HEXACOSANE	19.3	28.06	68.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.    : 12E067                           Date Extracted: 05/14/12 15:34
Sample ID    : SL-608-SA5C-SB-0.0-0.5          Date Analyzed: 05/16/12 06:08
Lab Samp ID  : E067-04                           Dilution Factor: 1
Lab File ID  : LE15060A                         Matrix          : SOIL
Ext Btch ID  : DSE018S                          % Moisture     : 3.2
Calib. Ref.  : LE15049A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.2	2.6
EFH(C12-C14)	ND	5.2	2.6
EFH(C15-C20)	ND	5.2	2.6
EFH(C21-C30)	84	5.2	2.6
EFH(C30-C40)	170	10	5.2
TOTAL EFH(C8-C40)	250	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.0	103.3	68.8	50-150
HEXACOSANE	22.8	25.83	88.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/14/12
Batch No.    : 12E067                             Date Extracted: 05/14/12 15:34
Sample ID    : MBLK1S                             Date Analyzed: 05/16/12 05:17
Lab Samp ID  : DSE018SB                           Dilution Factor: 1
Lab File ID  : LE15057A                           Matrix          : SOIL
Ext Btch ID  : DSE018S                             % Moisture      : NA
Calib. Ref.  : LE15049A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.9	100.0	69.9	50-150
HEXACOSANE	16.3	25.00	65.4	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E067  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE018SB DSE018SL DSE018SC  
LAB FILE ID: LE15057A LE15055A LE15056A  
DATE EXTRACTED: 05/14/1215:34 05/14/1215:34 05/14/1215:34 DATE COLLECTED: NA  
DATE ANALYZED: 05/16/1205:17 05/16/1204:43 05/16/1205:00 DATE RECEIVED: 05/14/12  
PREP. BATCH: DSE018S DSE018S DSE018S  
CALIB. REF: LE15049A LE15049A LE15049A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	457	91	500	462	92	1	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	77.7	78	100	76.8	77	50-150
Hexacosane	25.0	17.2	69	25.0	17.4	70	50-150

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.    : 12E067                           Date Extracted: 05/10/12 09:05
Sample ID:   SL-609-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 10:40
Lab Samp ID: E067-03                           Dilution Factor: 1
Lab File ID: BE10006A                          Matrix          : SOIL
Ext Btch ID: MEE003S                            % Moisture     : 10.9
Calib. Ref.: BE10002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	560	280
ISOPROPANOL	ND	560	280
METHANOL	ND	560	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.    : 12E067                           Date Extracted: 05/10/12 09:05
Sample ID:   SL-608-SA5C-SB-0.0-0.5           Date Analyzed: 05/10/12 10:55
Lab Samp ID: E067-04                           Dilution Factor: 1
Lab File ID: BE10007A                          Matrix          : SOIL
Ext Btch ID: MEE003S                           % Moisture     : 3.2
Calib. Ref.: BE10002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	520	260
ISOPROPANOL	ND	520	260
METHANOL	ND	520	260

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/10/12
Batch No.    : 12E067                             Date Extracted: 05/10/12 09:05
Sample ID    : MBLK1S                             Date Analyzed: 05/10/12 09:45
Lab Samp ID  : MEE003SB                           Dilution Factor: 1
Lab File ID  : BE10003A                           Matrix          : SOIL
Ext Btch ID  : MEE003S                             % Moisture      : NA
Calib. Ref.  : BE10002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E067  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEE003SB MEE003SL MEE003SC  
LAB FILE ID: BE10003A BE10004A BE10005A  
DATE EXTRACTED: 05/10/1209:05 05/10/1209:05 05/10/1209:05 DATE COLLECTED: NA  
DATE ANALYZED: 05/10/1209:45 05/10/1210:00 05/10/1210:16 DATE RECEIVED: 05/10/12  
PREP. BATCH: MEE003S MEE003S MEE003S  
CALIB. REF: BE10002A BE10002A BE10002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	9070	91	10000	9260	93	2	50-150	50
Isopropanol	ND	10000	11100	111	10000	10800	108	2	50-150	50
Methanol	ND	10000	9920	99	10000	9320	93	6	50-150	50

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/09/12
Project     : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.   : 12E067                           Date Extracted: 05/09/12 09:15
Sample ID   : SL-609-SA5C-SB-0.0-0.5          Date Analyzed: 05/10/12 12:18
Lab Samp ID : E067-03                          Dilution Factor: 1
Lab File ID : TE10008A                        Matrix          : SOIL
Ext Btch ID : PEE002S                         % Moisture     : 10.9
Calib. Ref. : TE10003A                       Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.4
ETHYLENE GLYCOL	ND	11	5.6
PROPYLENE GLYCOL	ND	11	5.6

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                       Date Received: 05/09/12
Batch No.    : 12E067                             Date Extracted: 05/09/12 09:15
Sample ID:   SL-608-SA5C-SB-0.0-0.5              Date Analyzed: 05/10/12 12:55
Lab Samp ID: E067-04                             Dilution Factor: 1
Lab File ID: TE10009A                           Matrix          : SOIL
Ext Btch ID: PEE002S                             % Moisture     : 3.2
Calib. Ref.: TE10003A                           Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.7
ETHYLENE GLYCOL	ND	10	5.2
PROPYLENE GLYCOL	ND	10	5.2

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.   : 12E067                           Date Extracted: 05/09/12 09:15
Sample ID   : MBLK1S                           Date Analyzed: 05/10/12 11:59
Lab Samp ID: PEE002SB                          Dilution Factor: 1
Lab File ID: TE10007A                          Matrix          : SOIL
Ext Btch ID: PEE002S                           % Moisture     : NA
Calib. Ref.: TE10003A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E067  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEE002SB PEE002SX PEE002SC  
LAB FILE ID: TE10007A TE10006A TE10005A  
DATE EXTRACTED: 05/09/1209:15 05/09/1209:15 05/09/1209:15 DATE COLLECTED: NA  
DATE ANALYZED: 05/10/1211:59 05/10/1211:39 05/10/1211:11 DATE RECEIVED: 05/09/12  
PREP. BATCH: PEE002S PEE002S PEE002S  
CALIB. REF: TE10003A TE10003A TE10003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	45.2	90	50.0	48.8	98	8	50-150	50
Ethylene Glycol	ND	50.0	44.2	88	50.0	46.0	92	4	50-150	50
Propylene Glycol	ND	25.0	23.3	93	25.0	24.3	97	4	50-150	50

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.    : 12E067                           Date Extracted: 05/15/12 12:46
Sample ID:   SL-609-SA5C-SB-0.0-0.5            Date Analyzed: 05/19/12 07:54
Lab Samp ID: E067-03                             Dilution Factor: 1
Lab File ID: SE18047A                           Matrix          : SOIL
Ext Btch ID: CPE019S                             % Moisture     : 10.9
Calib. Ref.: SE18032A                           Instrument ID  : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.90   (15.42)	14.96	92.9   (103)	45-120
TETRACHLORO-M-XYLENE	13.91   (14.42)	14.96	93.0   (96.4)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.    : 12E067                           Date Extracted: 05/15/12 12:46
Sample ID:   SL-608-SA5C-SB-0.0-0.5            Date Analyzed: 05/19/12 09:02
Lab Samp ID: E067-04                             Dilution Factor: 1
Lab File ID: SE18049A                           Matrix          : SOIL
Ext Btch ID: CPE019S                             % Moisture     : 4.1
Calib. Ref.: SE18032A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	15J   (17J)	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	34J   (42J)	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	10.92   (13.16)	13.90	78.6   (94.7)	45-120
TETRACHLORO-M-XYLENE	(13.56)   13.39	13.90	(97.5)   96.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/09/12
Batch No.    : 12E067                           Date Extracted: 05/15/12 12:46
Sample ID:   SL-613-SA5C-SB-0.0-0.5            Date Analyzed: 05/19/12 08:28
Lab Samp ID: E067-05                            Dilution Factor: 1
Lab File ID: SE18048A                          Matrix          : SOIL
Ext Btch ID: CPE019S                           % Moisture     : 3.2
Calib. Ref.: SE18032A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	41	21   21	
AROCLOR 5442	(ND)   ND	41	21   21	
AROCLOR 5460	(ND)   ND	41	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.42   (14.81)	13.77	97.4   (108)	45-120
TETRACHLORO-M-XYLENE	13.03   (13.54)	13.77	94.6   (98.3)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/15/12
Batch No.    : 12E067                             Date Extracted: 05/15/12 12:46
Sample ID    : MBLK1S                             Date Analyzed: 05/18/12 18:47
Lab Samp ID  : 60E019SB                           Dilution Factor: 1
Lab File ID  : SE18024A                           Matrix          : SOIL
Ext Btch ID  : CPE019S                            % Moisture      : NA
Calib. Ref.  : SE18016A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	14.02   (15.11)	13.33	105   (113)	45-120
TETRACHLORO-M-XYLENE	12.68   (12.93)	13.33	95.1   (97.0)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E067  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E019SB 60E019SL 60E019SC  
LAB FILE ID: SE18024A SE18025A SE18026A  
DATE EXTRACTED: 05/15/1212:46 05/15/1212:46 05/15/1212:46 DATE COLLECTED: NA  
DATE ANALYZED: 05/18/1218:47 05/18/1219:22 05/18/1219:56 DATE RECEIVED: 05/15/12  
PREP. BATCH: CPE019S CPE019S CPE019S  
CALIB. REF: SE18016A SE18016A SE18016A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(183)   182	(110)   109	167	(185)   185	(111)   111	(1)   2	50-130	50
Aroclor 1260	(ND)   ND	167	189   (197)	113   (118)	167	192   (202)	115   (121)	2   (3)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(105)   103	(126)   124	83.3	(106)   104	(127)   125	(1)   1	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	14.26   (15.38)	107   (115)	13.33	(14.98)   16.21	(112)   122*	45-120
Tetrachloro-m-xylene	13.33	13.11   (13.33)	98.3   (100)	13.33	(13.90)   13.87	(104)   104	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/09/12
Project    : SSFL PHASE 3                     Date Received: 05/09/12
SDG NO.    : 12E067                           Date Extracted: 05/15/12 10:10
Sample ID: SL-542-SA5C-SB-0.0-0.5           Date Analyzed: 05/17/12 21:31
Lab Samp ID: E067-01                         Dilution Factor: 0.985
Lab File ID: 98E09107                       Matrix          : SOIL
Ext Btch ID: IME019S                        % Moisture     : 1.7
Calib. Ref.: 98E09101                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12700	100	12.0
Antimony	14.5	0.501	0.100
Arsenic	5.08	0.501	0.200
Barium	456	0.501	0.200
Beryllium	0.544	0.501	0.0501
Boron	ND	5.01	2.51
Cadmium	1.72	0.501	0.0501
Calcium	3610	20.0	10.0
Chromium	51.7	0.501	0.200
Cobalt	6.42	0.501	0.0501
Copper	17.0	0.501	0.200
Iron	21800	100	10.0
Lead	396	0.501	0.100
Magnesium	4420	10.0	5.01
Manganese	233	0.501	0.251
Molybdenum	2.11	0.501	0.0501
Nickel	30.5	0.501	0.200
Potassium	2230	100	30.1
Selenium	ND	0.501	0.200
Silver	0.140J	0.501	0.0501
Sodium	146	100	50.1
Strontium	30.2	0.501	0.251
Thallium	0.226J	0.401	0.0501
Tin	ND	10.0	5.01
Titanium	824	1.00	0.501
Vanadium	35.9	0.501	0.0501
Zinc	377	5.01	1.50
Lithium	20.0	2.00	1.00
Phosphorus	404	12.0	6.01
Zirconium	ND	5.01	2.51

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/09/12
Project     : SSFL PHASE 3                     Date Received: 05/09/12
SDG NO.    : 12E067                            Date Extracted: 05/15/12 10:10
Sample ID   : SL-542-SA5C-SB-1.0-2.0          Date Analyzed: 05/17/12 21:35
Lab Samp ID: E067-02                           Dilution Factor: 0.971
Lab File ID: 98E09108                          Matrix          : SOIL
Ext Btch ID: IME019S                           % Moisture     : 11.1
Calib. Ref.: 98E09101                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	21600	109	13.1
Antimony	0.314J	0.546	0.109
Arsenic	7.95	0.546	0.218
Barium	194	0.546	0.218
Beryllium	1.18	0.546	0.0546
Boron	ND	5.46	2.73
Cadmium	0.267J	0.546	0.0546
Calcium	13800	21.8	10.9
Chromium	29.1	0.546	0.218
Cobalt	7.67	0.546	0.0546
Copper	17.8	0.546	0.218
Iron	30900	109	10.9
Lead	21.8	0.546	0.109
Magnesium	6790	10.9	5.46
Manganese	193	0.546	0.273
Molybdenum	0.310J	0.546	0.0546
Nickel	15.3	0.546	0.218
Potassium	1880	109	32.8
Selenium	ND	0.546	0.218
Silver	0.0693J	0.546	0.0546
Sodium	639	109	54.6
Strontium	57.3	0.546	0.273
Thallium	0.350J	0.437	0.0546
Tin	ND	10.9	5.46
Titanium	908	1.09	0.546
Vanadium	49.3	0.546	0.0546
Zinc	74.4	5.46	1.64
Lithium	29.9	2.18	1.09
Phosphorus	324	13.1	6.55
Zirconium	ND	5.46	2.73

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/09/12
Project    : SSFL PHASE 3                     Date Received: 05/09/12
SDG NO.    : 12E067                           Date Extracted: 05/15/12 10:10
Sample ID: SL-609-SA5C-SB-0.0-0.5           Date Analyzed: 05/17/12 21:40
Lab Samp ID: E067-03                         Dilution Factor: 0.976
Lab File ID: 98E09109                        Matrix          : SOIL
Ext Btch ID: IME019S                         % Moisture     : 10.9
Calib. Ref.: 98E09101                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10800	110	13.1
Antimony	0.303J	0.548	0.110
Arsenic	3.13	0.548	0.219
Barium	108	0.548	0.219
Beryllium	0.447J	0.548	0.0548
Boron	ND	5.48	2.74
Cadmium	0.378J	0.548	0.0548
Calcium	2950	21.9	11.0
Chromium	16.8	0.548	0.219
Cobalt	5.56	0.548	0.0548
Copper	11.8	0.548	0.219
Iron	17700	110	11.0
Lead	12.5	0.548	0.110
Magnesium	3860	11.0	5.48
Manganese	281	0.548	0.274
Molybdenum	0.961	0.548	0.0548
Nickel	9.61	0.548	0.219
Potassium	3740	110	32.9
Selenium	ND	0.548	0.219
Silver	0.104J	0.548	0.0548
Sodium	88.9J	110	54.8
Strontium	18.8	0.548	0.274
Thallium	0.224J	0.438	0.0548
Tin	ND	11.0	5.48
Titanium	997	1.10	0.548
Vanadium	29.9	0.548	0.0548
Zinc	61.4	5.48	1.64
Lithium	14.4	2.19	1.10
Phosphorus	382	13.1	6.57
Zirconium	ND	5.48	2.74

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/09/12
Project     : SSFL PHASE 3                     Date Received: 05/09/12
SDG NO.    : 12E067                           Date Extracted: 05/15/12 10:10
Sample ID   : SL-608-SA5C-SB-0.0-0.5         Date Analyzed: 05/17/12 21:44
Lab Samp ID: E067-04                          Dilution Factor: 0.980
Lab File ID: 98E09110                        Matrix          : SOIL
Ext Btch ID: IME019S                         % Moisture     : 3.2
Calib. Ref.: 98E09101                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8700	101	12.1
Antimony	1.21	0.506	0.101
Arsenic	4.95	0.506	0.202
Barium	129	0.506	0.202
Beryllium	0.284J	0.506	0.0506
Boron	3.72J	5.06	2.53
Cadmium	0.556	0.506	0.0506
Calcium	30800	20.2	10.1
Chromium	16.7	0.506	0.202
Cobalt	11.5	0.506	0.0506
Copper	16.1	0.506	0.202
Iron	16100	101	10.1
Lead	49.1	0.506	0.101
Magnesium	4510	10.1	5.06
Manganese	405	0.506	0.253
Molybdenum	1.13	0.506	0.0506
Nickel	12.1	0.506	0.202
Potassium	3190	101	30.4
Selenium	ND	0.506	0.202
Silver	0.0654J	0.506	0.0506
Sodium	284	101	50.6
Strontium	76.0	0.506	0.253
Thallium	0.143J	0.405	0.0506
Tin	ND	10.1	5.06
Titanium	920	1.01	0.506
Vanadium	32.1	0.506	0.0506
Zinc	86.3	5.06	1.52
Lithium	11.3	2.02	1.01
Phosphorus	583	12.1	6.07
Zirconium	4.81J	5.06	2.53

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/15/12
SDG NO.    : 12E067                           Date Extracted: 05/15/12 10:10
Sample ID   : MBLK1S                           Date Analyzed: 05/17/12 20:18
Lab Samp ID: IME019SB                         Dilution Factor: 1
Lab File ID: 98E09091                        Matrix          : SOIL
Ext Btch ID: IME019S                          % Moisture     : NA
Calib. Ref.: 98E09089                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E067  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME019SB IME019SL IME019SC  
LAB FILE ID: 98E09091 98E09092 98E09093  
DATIME EXTRACTD: 05/15/1210:10 05/15/1210:10 05/15/1210:10 DATE COLLECTED: NA  
DATIME ANALYZD: 05/17/1220:18 05/17/1220:23 05/17/1220:27 DATE RECEIVED: 05/15/12  
PREP. BATCH: IME019S IME019S IME019S  
CALIB. REF: 98E09089 98E09089 98E09089

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2460	98	2500	2430	97	1	80-120	20
Antimony	ND	25.0	24.0	96	25.0	23.8	95	1	80-120	20
Arsenic	ND	25.0	23.3	93	25.0	23.6	94	1	80-120	20
Barium	ND	25.0	24.0	96	25.0	23.9	96	1	80-120	20
Beryllium	ND	25.0	23.5	94	25.0	23.1	92	2	80-120	20
Boron	ND	25.0	24.1	96	25.0	24.1	96	0	80-120	20
Cadmium	ND	25.0	23.5	94	25.0	23.3	93	1	80-120	20
Calcium	ND	2500	2580	103	2500	2540	102	2	80-120	20
Chromium	ND	25.0	23.3	93	25.0	22.9	92	1	80-120	20
Cobalt	ND	25.0	23.6	95	25.0	23.6	94	0	80-120	20
Copper	ND	25.0	22.6	90	25.0	22.3	89	1	80-120	20
Iron	ND	2500	2480	99	2500	2470	99	0	80-120	20
Lead	ND	25.0	24.1	96	25.0	23.9	96	1	80-120	20
Magnesium	ND	2500	2450	98	2500	2430	97	1	80-120	20
Manganese	ND	25.0	23.5	94	25.0	23.5	94	0	80-120	20
Molybdenum	ND	25.0	23.9	96	25.0	23.6	94	1	80-120	20
Nickel	ND	25.0	22.6	90	25.0	22.2	89	2	80-120	20
Potassium	ND	2500	2630	105	2500	2610	104	1	80-120	20
Selenium	ND	25.0	22.5	90	25.0	22.4	90	0	80-120	20
Silver	ND	25.0	24.3	97	25.0	24.2	97	0	80-120	20
Sodium	ND	2500	2490	100	2500	2470	99	1	80-120	20
Strontium	ND	25.0	24.2	97	25.0	23.9	96	1	80-120	20
Thallium	ND	25.0	23.8	95	25.0	24.0	96	1	80-120	20
Tin	ND	25.0	26.1	105	25.0	26.1	104	0	80-120	20
Titanium	ND	25.0	24.1	96	25.0	23.8	95	1	80-120	20
Vanadium	ND	25.0	23.5	94	25.0	23.2	93	1	80-120	20
Zinc	ND	50.0	46.2	92	50.0	46.5	93	1	80-120	20
Lithium	ND	25.0	24.3	97	25.0	24.4	97	0	80-120	20
Phosphorus	ND	250	235	94	250	234	93	0	80-120	20
Zirconium	ND	25.0	23.6	94	25.0	23.6	94	0	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E067  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 9.0  
DILTN FACTR: 0.971 0.971  
SAMPLE ID: SL-512-SA5C-SB-0.0-0.5  
CONTROL NO.: E082-10 E082-10A  
LAB FILE ID: 98E09097 98E09096  
DATIME EXTRACTD: 05/15/1210:10 05/15/1210:10 DATE COLLECTED: 05/10/12  
DATIME ANALYZD: 05/17/1220:45 05/17/1220:41 DATE RECEIVED: 05/10/12  
PREP. BATCH: IME019S IME019S  
CALIB. REF: 98E09089 98E09089

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	13500	2670	15900	88	75-125
Antimony	0.220J	26.7	26.5	98	75-125
Arsenic	3.79	26.7	28.3	92	75-125
Barium	105	26.7	130	94	75-125
Beryllium	0.588	26.7	26.0	95	75-125
Boron	3.39J	26.7	28.9	96	75-125
Cadmium	0.487J	26.7	25.5	94	75-125
Calcium	4450	2670	7060	98	75-125
Chromium	17.6	26.7	40.9	87	75-125
Cobalt	6.07	26.7	30.0	90	75-125
Copper	11.9	26.7	33.8	82	75-125
Iron	18200	2670	20200	73*	75-125
Lead	12.2	26.7	37.0	93	75-125
Magnesium	3480	2670	5960	93	75-125
Manganese	258	26.7	276	68*	75-125
Molybdenum	0.522J	26.7	26.7	98	75-125
Nickel	11.2	26.7	33.2	83	75-125
Potassium	2530	2670	5320	105	75-125
Selenium	ND	26.7	24.3	91	75-125
Silver	0.619	26.7	25.8	94	75-125
Sodium	82.0J	2670	2630	95	75-125
Strontium	25.5	26.7	50.5	94	75-125
Thallium	0.216J	26.7	25.4	94	75-125
Tin	ND	26.7	29.0	109	75-125
Titanium	718	26.7	734	62*	75-125
Vanadium	33.9	26.7	57.2	87	75-125
Zinc	69.8	53.4	115	84	75-125
Lithium	13.1	26.7	40.1	101	75-125
Phosphorus	217	267	488	101	75-125
Zirconium	ND	26.7	25.7	96	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E067  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 9.0  
 DILUTION FACTOR: 0.971 4.85  
 SAMPLE ID: SL-512-SA5C-SB SL-512-SA5C-SB  
 EMAX SAMP ID: E082-10 E082-10J  
 LAB FILE ID: 98E09097 98E09098  
 DATE EXTRACTED: 05/15/1210:10 05/15/1210:10 DATE COLLECTED: 05/10/12  
 DATE ANALYZED: 05/17/1220:45 05/17/1220:50 DATE RECEIVED: 05/10/12  
 PREP. BATCH: IME019S IME019S  
 CALIB. REF: 98E09089 98E09089

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	13500	14100	4	10
Antimony	0.220J	ND	NA	10
Arsenic	3.79	3.97	5	10
Barium	105	100	4	10
Beryllium	0.588	0.657J	NA	10
Boron	3.39J	ND	NA	10
Cadmium	0.487J	0.488J	NA	10
Calcium	4450	4670	5	10
Chromium	17.6	18.3	4	10
Cobalt	6.07	6.42	6	10
Copper	11.9	13.0	9	10
Iron	18200	19200	5	10
Lead	12.2	12.4	1	10
Magnesium	3480	3660	5	10
Manganese	258	275	7	10
Molybdenum	0.522J	0.512J	NA	10
Nickel	11.2	12.0	7	10
Potassium	2530	2590	2	10
Selenium	ND	ND	0	10
Silver	0.619	0.611J	NA	10
Sodium	82.0J	ND	NA	10
Strontium	25.5	24.7	3	10
Thallium	0.216J	ND	NA	10
Tin	ND	ND	0	10
Titanium	718	724	1	10
Vanadium	33.9	35.1	4	10
Zinc	69.8	72.8	4	10
Lithium	13.1	13.0	1	10
Phosphorus	217	229	6	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E067  
=====

Matrix : SOIL  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE011SB	ND	1	NA	0.100	0.0500	05/14/1216:52	05/14/1212:30	M47E011041	M47E011032	HGE011S	NA	05/14/12
LCS1S	HGE011SL	0.872	1	NA	0.100	0.0500	05/14/1216:54	05/14/1212:30	M47E011042	M47E011032	HGE011S	NA	05/14/12
LCD1S	HGE011SC	0.867	1	NA	0.100	0.0500	05/14/1216:57	05/14/1212:30	M47E011043	M47E011032	HGE011S	NA	05/14/12
SL-542-SA5C-SB-0.0-0.5	E067-01	ND	0.985	1.7	0.100	0.0501	05/14/1217:43	05/14/1212:30	M47E011065	M47E011056	HGE011S	05/09/12	05/09/12
SL-542-SA5C-SB-1.0-2.0	E067-02	ND	0.988	11.1	0.111	0.0556	05/14/1217:46	05/14/1212:30	M47E011066	M47E011056	HGE011S	05/09/12	05/09/12
SL-609-SA5C-SB-0.0-0.5	E067-03	ND	0.998	10.9	0.112	0.0560	05/14/1217:48	05/14/1212:30	M47E011067	M47E011056	HGE011S	05/09/12	05/09/12
SL-608-SA5C-SB-0.0-0.5	E067-04	ND	0.993	3.2	0.103	0.0513	05/14/1217:55	05/14/1212:30	M47E011070	M47E011068	HGE011S	05/09/12	05/09/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E067  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE011SB HGE011SL HGE011SC  
LAB FILE ID: M47E011041 M47E011042 M47E011043  
DATIME EXTRCTD: 05/14/1212:30 05/14/1212:30 05/14/1212:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/14/1216:52 05/14/1216:54 05/14/1216:57 DATE RECEIVED: 05/14/12  
PREP. BATCH: HGE011S HGE011S HGE011S  
CALIB. REF: M47E011032 M47E011032 M47E011032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.872	105	.833	.867	104	1	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E067  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 7.5  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: SL-695-SA5C-SB-0.0-0.5  
CONTROL NO.: D256-02 D256-02A  
LAB FILE ID: M47E011047 M47E011046  
DATIME EXTRCTD: 05/14/1212:30 05/14/1212:30 DATE COLLECTED: 04/26/12  
DATIME ANALYZD: 05/14/1217:05 05/14/1217:03 DATE RECEIVED: 04/26/12  
PREP. BATCH: HGE011S HGE011S  
CALIB. REF: M47E011044 M47E011044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.899	.948	105	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E067  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 7.5  
 DILUTION FACTOR: 0.998 4.99  
 SAMPLE ID: SL-695-SA5C-SB-0.0- D256-02 SL-695-SA5C-SB-0.0- D256-02J  
 EMAX SAMP ID: D256-02 D256-02J  
 LAB FILE ID: M47E011047 M47E011048  
 DATE EXTRACTED: 05/14/1212:30 05/14/1212:30 DATE COLLECTED: 04/26/12  
 DATE ANALYZED: 05/14/1217:05 05/14/1217:07 DATE RECEIVED: 04/26/12  
 PREP. BATCH: HGE011S HGE011S  
 CALIB. REF: M47E011044 M47E011044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E067  
 =====

Matrix : SOIL  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCE004SB	ND	1	NA	1.00	0.500	05/18/1211:25	05/16/1211:53	IE18003	IE18001	HCE004S	NA	05/16/12
MBLK1S	HCE004SQ	ND	1	NA	1.00	0.500	05/18/1211:35	05/16/1211:53	IE18004	IE18001	HCE004S	NA	05/16/12
LCS1S	CSE004SL	10.9	1	NA	1.00	0.500	05/18/1212:27	05/16/1211:53	IE18009	IE18001	HCE004S	NA	05/16/12
LCS1S	CSE004SX	10.4	1	NA	1.00	0.500	05/18/1211:56	05/16/1211:53	IE18006	IE18001	HCE004S	NA	05/16/12
LCS2S	CIE004SL	233	20	NA	20.0	10.0	05/18/1212:06	05/16/1211:53	IE18007	IE18001	HCE004S	NA	05/16/12
LCS2S	CIE004SX	231	20	NA	20.0	10.0	05/18/1212:17	05/16/1211:53	IE18008	IE18001	HCE004S	NA	05/16/12
SL-542-SA5C-SB-0.0-0.5	E067-01	6.69	1	1.7	1.02	0.509	05/18/1213:50	05/16/1211:53	IE18016	IE18012	HCE004S	05/09/1209:00	05/09/12
SL-542-SA5C-SB-0.0-0.5	E067-01R	6.77	1	1.7	1.02	0.509	05/18/1214:01	05/16/1211:53	IE18017	IE18012	HCE004S	05/09/1209:00	05/09/12
SL-542-SA5C-SB-1.0-2.0	E067-02	ND	1	11.1	1.12	0.562	05/18/1214:11	05/16/1211:53	IE18018	IE18012	HCE004S	05/09/1209:30	05/09/12
SL-542-SA5C-SB-1.0-2.0	E067-02R	ND	1	11.1	1.12	0.562	05/18/1214:21	05/16/1211:53	IE18019	IE18012	HCE004S	05/09/1209:30	05/09/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E067  
METHOD: 7199

=====

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	20		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	HCE004SQ	CIE004SX		
LAB FILE ID:	IE18004	IE18008		
DATE EXTRACTED:	05/16/1211:53	05/16/1211:53	DATE COLLECTED:	NA
DATE ANALYZED:	05/18/1211:35	05/18/1212:17	DATE RECEIVED:	05/16/12
PREP. BATCH:	HCE004S	HCE004S		
CALIB. REF:	IE18001	IE18001		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
-----					
Hexavalent Chromium	ND	261	231	88	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E067  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE004SQ CSE004SX  
LAB FILE ID: IE18004 IE18006  
DATE EXTRACTED: 05/16/1211:53 05/16/1211:53 DATE COLLECTED: NA  
DATE ANALYZED: 05/18/1211:35 05/18/1211:56 DATE RECEIVED: 05/16/12  
PREP. BATCH: HCE004S HCE004S  
CALIB. REF: IE18001 IE18001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	10.4	104	80-120

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E067  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-542-SA5C-SB-0.0-0.5	E067-01	7.85	1	NA	NA	NA	05/10/1215:29	05/10/1214:40	12PHE010S01	PHE010S	PHE010S	05/09/1209:00	05/09/12
SL-542-SA5C-SB-1.0-2.0	E067-02	8.59	1	NA	NA	NA	05/10/1215:31	05/10/1214:40	12PHE010S02	PHE010S	PHE010S	05/09/1209:30	05/09/12
SL-609-SA5C-SB-0.0-0.5	E067-03	7.75	1	NA	NA	NA	05/10/1215:32	05/10/1214:40	12PHE010S03	PHE010S	PHE010S	05/09/1211:13	05/09/12
SL-609-SA5C-SB-0.0-0.5DUPE	067-03D	7.72	1	NA	NA	NA	05/10/1215:34	05/10/1214:40	12PHE010S04	PHE010S	PHE010S	05/09/1211:13	05/09/12
SL-608-SA5C-SB-0.0-0.5	E067-04	8.91	1	NA	NA	NA	05/10/1215:35	05/10/1214:40	12PHE010S05	PHE010S	PHE010S	05/09/1213:20	05/09/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E067	DATE RECEIVED:	05/09/12
SAMPLE ID:	SL-609-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	05/10/12 14:40
CONTROL NO.:	E067-03D	DATE ANALYZED:	05/10/12 15:34

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	7.75	7.72	0.03	0.10

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/14/12 16:12
Sample ID    : EB-051012                        Date Analyzed: 05/14/12 16:12
Lab Samp ID  : E082-01                          Dilution Factor: 1
Lab File ID  : REV258                           Matrix          : WATER
Ext Btch ID  : VO01E10                          % Moisture     : NA
Calib. Ref.  : RBV366                           Instrument ID   : T-001
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	0.44J	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	0.59J	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	3.5	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	0.25J	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	3.0	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.5	10.00	105	80-120
4-BROMOFLUOROBENZENE	9.47	10.00	94.7	86-115
TOLUENE-D8	9.54	10.00	95.4	88-110
DIBROMOFLUOROMETHANE	9.72	10.00	97.2	86-118

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.    : 12E082                          Date Extracted: 05/14/12 11:29
Sample ID    : MBLK1W                          Date Analyzed: 05/14/12 11:29
Lab Samp ID  : VO01E10B                       Dilution Factor: 1
Lab File ID  : REV248                          Matrix          : WATER
Ext Btch ID  : VO01E10                        % Moisture     : NA
Calib. Ref.  : RBV366                          Instrument ID   : T-001
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	9.82	10.00	98.2	80-120
4-BROMOFLUOROBENZENE	9.30	10.00	93.0	86-115
TOLUENE-D8	9.17	10.00	91.7	88-110
DIBROMOFLUOROMETHANE	9.51	10.00	95.1	86-118

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VO01E10B VO01E10L VO01E10C  
LAB FILE ID: REV248 REV246 REV247  
DATE EXTRACTED: 05/14/1211:29 05/14/1210:33 05/14/1211:01 DATE COLLECTED: NA  
DATE ANALYZED: 05/14/1211:29 05/14/1210:33 05/14/1211:01 DATE RECEIVED: 05/14/12  
PREP. BATCH: VO01E10 VO01E10 VO01E10  
CALIB. REF: RBV366 RBV366 RBV366

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	10.0	9.42	94	10.0	9.42	94	0	70-130	30
1,1,1-Trichloroethane	ND	10.0	9.54	95	10.0	9.43	94	1	70-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.37	94	10.0	9.45	94	1	70-130	30
1,1,2-Trichloroethane	ND	10.0	9.08	91	10.0	9.44	94	4	70-130	30
1,1-Dichloroethane	ND	10.0	9.14	91	10.0	8.88	89	3	70-130	30
1,1-Dichloroethene	ND	10.0	7.79	78	10.0	7.75	77	1	60-130	30
1,1-Dichloropropene	ND	10.0	8.59	86	10.0	8.24	82	4	70-140	30
1,2,3-Trichlorobenzene	ND	10.0	9.52	95	10.0	10.1	101	6	60-130	30
1,2,3-Trichloropropane	ND	10.0	10.0	100	10.0	9.72	97	3	70-140	30
1,2,4-Trichlorobenzene	ND	10.0	9.57	96	10.0	10.1	101	5	60-140	30
1,2,4-Trimethylbenzene	ND	10.0	9.50	95	10.0	9.19	92	3	70-130	30
1,2-Dibromo-3-chloropropane	ND	10.0	9.22	92	10.0	9.38	94	2	60-130	30
1,2-Dichlorobenzene	ND	10.0	9.45	94	10.0	9.47	95	0	70-130	30
1,2-Dichloroethane	ND	10.0	9.23	92	10.0	9.30	93	1	70-130	30
1,2-Dichloropropane	ND	10.0	9.06	91	10.0	9.23	92	2	70-130	30
1,2-Dibromoethane (EDB)	ND	10.0	8.78	88	10.0	9.14	91	4	70-140	30
1,3,5-Trimethylbenzene	ND	10.0	9.81	98	10.0	9.37	94	5	70-130	30
1,3-Dichlorobenzene	ND	10.0	9.41	94	10.0	9.16	92	3	70-130	30
1,3-Dichloropropane	ND	10.0	8.78	88	10.0	9.05	90	3	70-130	30
1,4-Dichlorobenzene	ND	10.0	9.20	92	10.0	9.17	92	0	70-130	30
2,2-Dichloropropane	ND	10.0	9.75	97	10.0	9.38	94	4	50-140	30
2-Chlorotoluene	ND	10.0	9.46	95	10.0	9.07	91	4	70-130	30
4-Chlorotoluene	ND	10.0	9.68	97	10.0	9.29	93	4	70-130	30
Benzene	ND	10.0	8.17	82	10.0	8.14	81	0	70-130	30
Bromobenzene	ND	10.0	9.28	93	10.0	9.08	91	2	70-130	30
Bromochloromethane	ND	10.0	9.24	92	10.0	9.21	92	0	70-130	30
Bromodichloromethane	ND	10.0	8.97	90	10.0	9.21	92	3	70-130	30
Bromoform	ND	10.0	9.58	96	10.0	9.43	94	2	60-140	30
Bromomethane	ND	10.0	9.34	93	10.0	8.89	89	5	50-140	30
Carbon Tetrachloride	ND	10.0	9.37	94	10.0	9.08	91	3	70-130	30
Chlorobenzene	ND	10.0	9.13	91	10.0	9.17	92	0	70-120	30
Chloroethane	ND	10.0	9.72	97	10.0	9.42	94	3	70-140	30
Chloroform	ND	10.0	9.05	91	10.0	9.11	91	1	70-130	30
Chloromethane	ND	10.0	8.06	81	10.0	7.75	77	4	60-130	30
cis-1,2-Dichloroethene	ND	10.0	8.69	87	10.0	8.59	86	1	70-130	30
cis-1,3-Dichloropropene	ND	10.0	8.74	87	10.0	8.84	88	1	70-130	30
Dibromochloromethane	ND	10.0	9.34	93	10.0	9.70	97	4	70-130	30
Dibromomethane	ND	10.0	9.07	91	10.0	9.28	93	2	70-140	30
Dichlorodifluoromethane	ND	10.0	9.07	91	10.0	8.61	86	5	50-140	30
Ethylbenzene	ND	10.0	9.18	92	10.0	9.05	91	1	70-130	30
Hexachlorobutadiene	ND	10.0	11.1	111	10.0	11.2	112	1	60-140	30
Isopropyl Benzene	ND	10.0	9.82	98	10.0	9.34	93	5	70-150	30
m,p-Xylene	ND	20.0	18.1	90	20.0	17.8	89	2	70-130	30
Methyl tert-butyl Ether (MTBE)	ND	10.0	8.36	84	10.0	8.74	87	4	70-140	30
Methylene Chloride	ND	10.0	8.40	84	10.0	8.29	83	1	70-130	30
n-Butylbenzene	ND	10.0	10.2	102	10.0	9.70	97	5	60-130	30
n-Propylbenzene	ND	10.0	9.48	95	10.0	9.05	91	5	70-140	30
o-Xylene	ND	10.0	9.02	90	10.0	9.00	90	0	70-130	30

p-Isopropyltoluene	ND	10.0	10.3	103	10.0	9.75	97	5	70-140	30
Sec-Butylbenzene	ND	10.0	10.2	102	10.0	9.74	97	5	70-130	30
Styrene	ND	10.0	9.21	92	10.0	9.24	92	0	70-130	30
Tert-Butylbenzene	ND	10.0	9.87	99	10.0	9.27	93	6	70-130	30
Tetrachloroethene	ND	10.0	8.06	81	10.0	7.88	79	2	70-130	30
Toluene	ND	10.0	8.64	86	10.0	8.61	86	0	70-130	30
Trans-1,2-Dichloroethene	ND	10.0	7.87	79	10.0	7.67	77	3	70-130	30
Trans-1,3-Dichloropropene	ND	10.0	8.63	86	10.0	9.04	90	5	70-140	30
Trichloroethene	ND	10.0	8.27	83	10.0	8.25	82	0	70-130	30
Trichlorofluoromethane	ND	10.0	11.5	115	10.0	11.2	112	3	70-140	30
Vinyl Chloride	ND	10.0	9.16	92	10.0	8.79	88	4	60-150	30
Acetone	ND	50.0	44.9	90	50.0	46.6	93	4	50-150	30
2-Butanone (MEK)	ND	50.0	45.7	91	50.0	47.3	95	4	60-140	30
2-Hexanone	ND	50.0	42.8	86	50.0	45.4	91	6	70-140	30
4-Methyl-2-Pentanone (MIBK)	ND	50.0	44.3	89	50.0	46.4	93	5	60-140	30
Freon113	ND	10.0	8.73	87	10.0	8.64	86	1	70-140	30
2-Chloroethyl Vinyl Ether	ND	10.0	8.44	84	10.0	9.45	94	11	30-160	30
2-Chloro-1,1,1-trifluoroethane	ND	10.0	12.5	125	10.0	12.7	127	2	50-150	30
Chlorotrifluoroethylene	ND	10.0	12.8	128	10.0	12.6	126	2	50-150	30
1-Chlorohexane	ND	10.0	8.71	87	10.0	8.51	85	2	50-150	30
Carbon Disulfide	ND	10.0	9.05	91	10.0	8.72	87	4	40-150	30
Ethyl tertiary butyl Ether (ETBE)	ND	10.0	8.57	86	10.0	8.64	86	1	40-160	30
Iodomethane	ND	10.0	7.13	71	10.0	6.99	70	2	40-150	30
Tertiary Amyl Methyl Ether (TAME)	ND	10.0	8.22	82	10.0	8.47	85	3	50-150	30
Tertiary butyl Alcohol	ND	50.0	50.9	102	50.0	51.9	104	2	20-160	30
Vinyl Acetate	ND	10.0	8.38	84	10.0	8.58	86	2	10-160	30
Acrolein	ND	50.0	45.6	91	50.0	44.9	90	2	30-160	30
Acrylonitrile	ND	50.0	43.9	88	50.0	45.3	91	3	50-150	30
Diisopropyl Ether	ND	10.0	9.24	92	10.0	9.48	95	3	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	10.0	10.1	101	10.0	10.0	100	80-120
4-Bromofluorobenzene	10.0	8.80	88	10.0	8.59	86	86-115
Toluene-d8	10.0	9.23	92	10.0	9.07	91	88-110
Dibromofluoromethane	10.0	9.65	97	10.0	9.66	97	86-118

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                       Date Received: 05/10/12
Batch No.    : 12E082                             Date Extracted: 05/16/12 16:18
Sample ID    : EB-051012                          Date Analyzed: 05/16/12 16:18
Lab Samp ID  : E082-01                             Dilution Factor: 1
Lab File ID  : REY151                              Matrix          : WATER
Ext Btch ID  : VOF5E08                             % Moisture     : NA
Calib. Ref.  : RKY092                              Instrument ID   : TOF5
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
-----	-----	-----	-----	
1,4-DIOXANE	ND	2.0	1.0	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	5.04	5.000	101	50-150

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/16/12
Batch No.    : 12E082                             Date Extracted: 05/16/12 15:49
Sample ID    : MBLK1W                             Date Analyzed: 05/16/12 15:49
Lab Samp ID  : VOF5E08B                           Dilution Factor: 1
Lab File ID  : REY150                             Matrix          : WATER
Ext Btch ID  : VOF5E08                             % Moisture      : NA
Calib. Ref.  : RKY092                             Instrument ID   : TOF5
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	5.69	5.000	114	50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: 5030B/8260B SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VOF5E08B VOF5E08L VOF5E08C  
LAB FILE ID: REY150 REY147 REY148  
DATE EXTRACTED: 05/16/1215:49 05/16/1214:18 05/16/1214:49 DATE COLLECTED: NA  
DATE ANALYZED: 05/16/1215:49 05/16/1214:18 05/16/1214:49 DATE RECEIVED: 05/16/12  
PREP. BATCH: VOF5E08 VOF5E08 VOF5E08  
CALIB. REF: RKY092 RKY092 RKY092

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,4-Dioxane	ND	50.0	45.9	92	50.0	45.6	91	1	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	5.00	4.46	89	5.00	4.58	92	50-150

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/16/12 12:45
Sample ID    : EB-051012                       Date Analyzed: 05/18/12 14:05
Lab Samp ID  : E082-01                         Dilution Factor: 1.06
Lab File ID  : REJ446                          Matrix          : WATER
Ext Btch ID  : SVE030W                         % Moisture     : NA
Calib. Ref.  : RAJ290                          Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.21	0.11
ACENAPHTHYLENE	ND	0.21	0.11
ANTHRACENE	ND	0.21	0.11
BENZO (A) ANTHRACENE	ND	0.21	0.11
BENZO (A) PYRENE	ND	0.21	0.11
BENZO (B) FLUORANTHENE	ND	0.21	0.11
BENZO (K) FLUORANTHENE	ND	0.21	0.11
BENZO (G, H, I) PERYLENE	ND	0.21	0.11
CHRYSENE	ND	0.21	0.11
DIBENZO (A, H) ANTHRACENE	ND	0.21	0.11
FLUORANTHENE	ND	0.21	0.11
FLUORENE	ND	0.21	0.11
INDENO (1, 2, 3-CD) PYRENE	ND	0.21	0.11
NAPHTHALENE	0.15J	0.21	0.11
PHENANTHRENE	ND	0.21	0.11
2-METHYLNAPHTHALENE	ND	0.21	0.11
1-METHYLNAPHTHALENE	ND	0.21	0.11
N-NITROSODIMETHYLAMINE	ND	1.1	0.11
PYRENE	ND	0.21	0.11
AZOBENZENE	ND	1.1	0.11
BENZO (E) PYRENE	ND	0.21	0.11
BIPHENYL	ND	2.1	0.53

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	15.9	21.20	74.8	40-130
2-FLUOROBIPHENYL	14.2	21.20	66.8	45-130
TERPHENYL-D14	20.9	21.20	98.4	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/16/12
Batch No.    : 12E082                             Date Extracted: 05/16/12 12:45
Sample ID    : MBLK1W                             Date Analyzed: 05/21/12 18:56
Lab Samp ID  : SVE030WQ                           Dilution Factor: 1
Lab File ID  : REJ468                             Matrix          : WATER
Ext Btch ID  : SVE030W                             % Moisture     : NA
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	16.1	20.00	80.6	40-130
2-FLUOROBIPHENYL	15.0	20.00	74.9	45-130
TERPHENYL-D14	16.7	20.00	83.4	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVE030WQ SVE030WL SVE030WC  
LAB FILE ID: REJ468 REJ443 REJ444  
DATE EXTRACTED: 05/16/1212:45 05/16/1212:45 05/16/1212:45 DATE COLLECTED: NA  
DATE ANALYZED: 05/21/1218:56 05/18/1213:09 05/18/1213:27 DATE RECEIVED: 05/16/12  
PREP. BATCH: SVE030W SVE030W SVE030W  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	31.8	79	40.0	35.9	90	12	20-130	30
Acenaphthylene	ND	40.0	36.2	90	40.0	40.9	102	12	30-140	30
Anthracene	ND	40.0	32.1	80	40.0	33.8	85	5	40-130	30
Benzo (a) anthracene	ND	40.0	33.6	84	40.0	35.4	88	5	50-130	30
Benzo (a) pyrene	ND	40.0	38.4	96	40.0	40.1	100	5	50-130	30
Benzo (b) fluoranthene	ND	40.0	39.9	100	40.0	41.9	105	5	50-130	30
Benzo (k) fluoranthene	ND	40.0	38.3	96	40.0	39.2	98	2	50-130	30
Benzo (g, h, i) perylene	ND	40.0	40.6	102	40.0	43.2	108	6	30-150	30
Chrysene	ND	40.0	31.3	78	40.0	33.1	83	6	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	40.8	102	40.0	43.4	108	6	40-140	30
Fluoranthene	ND	40.0	35.0	87	40.0	36.8	92	5	40-130	30
Fluorene	ND	40.0	38.2	95	40.0	41.2	103	8	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	41.2	103	40.0	43.9	110	6	40-130	30
Naphthalene	ND	40.0	27.5	69	40.0	31.9	80	15	20-130	30
Phenanthrene	ND	40.0	32.5	81	40.0	33.8	85	4	40-130	30
2-Methylnaphthalene	ND	40.0	30.4	76	40.0	35.2	88	15	30-150	30
1-Methylnaphthalene	ND	40.0	30.2	75	40.0	35.1	88	15	40-150	30
N-Nitrosodimethylamine	ND	40.0	31.9	80	40.0	35.9	90	12	20-150	30
Pyrene	ND	40.0	33.6	84	40.0	35.1	88	4	40-130	30
Azobenzene	ND	40.0	33.5	84	40.0	34.6	86	3	30-150	30
Benzo (e) pyrene	ND	40.0	34.5	86	40.0	36.0	90	4	30-150	30
Biphenyl	ND	40.0	26.6	66	40.0	30.8	77	15	30-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	14.5	73	20.0	16.2	81	40-130
2-Fluorobiphenyl	20.0	12.4	62	20.0	14.4	72	45-130
Terphenyl-d14	20.0	15.7	79	20.0	16.4	82	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/18/12 15:20
Sample ID:   SL-529-SA5C-SB-4.0-5.0           Date Analyzed: 05/18/12 19:16
Lab Samp ID: E082-02R                          Dilution Factor: 1
Lab File ID: REJ458                             Matrix          : SOIL
Ext Btch ID: SVE036S                           % Moisture     : 8.6
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	210	364.7	57.6	40-130
2-FLUOROBIPHENYL	203	364.7	55.6	45-130
TERPHENYL-D14	351	364.7	96.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/15/12 15:57
Sample ID:   SL-512-SA5C-SB-4.0-5.0           Date Analyzed: 05/16/12 18:36
Lab Samp ID: E082-04                           Dilution Factor: 1
Lab File ID: REJ378                            Matrix          : SOIL
Ext Btch ID: SVE026S                           % Moisture     : 13.6
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	268	385.8	69.4	40-130
2-FLUOROBIPHENYL	229	385.8	59.3	45-130
TERPHENYL-D14	295	385.8	76.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/15/12 15:57
Sample ID    : SL-812-SA5C-SB-0.0-0.5          Date Analyzed: 05/16/12 21:06
Lab Samp ID  : E082-06                          Dilution Factor: 2
Lab File ID  : REJ386                           Matrix          : SOIL
Ext Btch ID  : SVE026S                          % Moisture     : 9.5
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	ND	22	5.5
BENZO (A) ANTHRACENE	21J	22	5.5
BENZO (A) PYRENE	24	22	5.5
BENZO (B) FLUORANTHENE	35	22	5.5
BENZO (K) FLUORANTHENE	7.7J	22	5.5
BENZO (G, H, I) PERYLENE	18J	22	5.5
CHRYSENE	22	22	5.5
DIBENZO (A, H) ANTHRACENE	ND	22	5.5
FLUORANTHENE	39	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	11J	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	15J	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	39	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	22	11	5.5
BIPHENYL	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	292	368.3	79.2	40-130
2-FLUOROBIPHENYL	266	368.3	72.3	45-130
TERPHENYL-D14	298	368.3	80.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/15/12 15:57
Sample ID    : SL-513-SA5C-SB-4.0-5.0          Date Analyzed: 05/16/12 18:54
Lab Samp ID  : E082-08                           Dilution Factor: 1
Lab File ID  : REJ379                             Matrix          : SOIL
Ext Btch ID  : SVE026S                           % Moisture     : 11.3
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	184	375.8	49.0	40-130
2-FLUOROBIPHENYL	186	375.8	49.6	45-130
TERPHENYL-D14	344	375.8	91.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                       Date Received: 05/10/12
Batch No.    : 12E082                             Date Extracted: 05/15/12 15:57
Sample ID:   SL-512-SA5C-SB-0.0-0.5              Date Analyzed: 05/16/12 21:25
Lab Samp ID: E082-10                               Dilution Factor: 2
Lab File ID: REJ387                               Matrix          : SOIL
Ext Btch ID: SVE026S                             % Moisture     : 9.0
Calib. Ref.: RAJ290                               Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	ND	22	5.5
BENZO (A) ANTHRACENE	26	22	5.5
BENZO (A) PYRENE	33	22	5.5
BENZO (B) FLUORANTHENE	49	22	5.5
BENZO (K) FLUORANTHENE	10J	22	5.5
BENZO (G, H, I) PERYLENE	26	22	5.5
CHRYSENE	26	22	5.5
DIBENZO (A, H) ANTHRACENE	6.2J	22	5.5
FLUORANTHENE	39	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	16J	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	12J	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	46	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	29	11	5.5
BIPHENYL	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	293	366.3	79.9	40-130
2-FLUOROBIPHENYL	261	366.3	71.2	45-130
TERPHENYL-D14	280	366.3	76.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/15/12 15:57
Sample ID    : SL-512-SA5C-SB-6.0-7.0          Date Analyzed: 05/16/12 19:13
Lab Samp ID  : E082-11                          Dilution Factor: 1
Lab File ID  : REJ380                           Matrix          : SOIL
Ext Btch ID  : SVE026S                          % Moisture     : 13.0
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	244	383.1	63.6	40-130
2-FLUOROBIPHENYL	223	383.1	58.3	45-130
TERPHENYL-D14	303	383.1	79.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/15/12
Batch No.    : 12E082                           Date Extracted: 05/15/12 15:57
Sample ID    : MBLK1S                            Date Analyzed: 05/16/12 15:27
Lab Samp ID  : SVE026SB                         Dilution Factor: 1
Lab File ID  : REJ368                           Matrix          : SOIL
Ext Btch ID  : SVE026S                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	300	333.3	89.9	40-130
2-FLUOROBIPHENYL	277	333.3	83.0	45-130
TERPHENYL-D14	319	333.3	95.6	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/18/12
Batch No.    : 12E082                          Date Extracted: 05/18/12 15:20
Sample ID    : MBLK2S                          Date Analyzed: 05/18/12 17:42
Lab Samp ID  : SVE036SB                       Dilution Factor: 1
Lab File ID  : REJ453                          Matrix          : SOIL
Ext Btch ID  : SVE036S                        % Moisture     : NA
Calib. Ref.  : RAJ290                          Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	285	333.3	85.6	40-130
2-FLUOROBIPHENYL	282	333.3	84.7	45-130
TERPHENYL-D14	305	333.3	91.6	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE026SB SVE026SL SVE026SC  
LAB FILE ID: REJ368 REJ369 REJ370  
DATE EXTRACTED: 05/15/1215:57 05/15/1215:57 05/15/1215:57 DATE COLLECTED: NA  
DATE ANALYZED: 05/16/1215:27 05/16/1215:45 05/16/1216:04 DATE RECEIVED: 05/15/12  
PREP. BATCH: SVE026S SVE026S SVE026S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	321	96	333	332	100	4	10-130	50
Acenaphthylene	ND	333	366	110	333	380	114	4	20-130	50
Anthracene	ND	333	291	87	333	308	92	6	20-130	50
Benzo (a) anthracene	ND	333	315	95	333	355	107	12	30-130	50
Benzo (a) pyrene	ND	333	358	108	333	380	114	6	30-130	50
Benzo (b) fluoranthene	ND	333	371	111	333	408	122	10	40-130	50
Benzo (k) fluoranthene	ND	333	362	109	333	368	110	2	30-140	50
Benzo (g, h, i) perylene	ND	333	394	118	333	414	124	5	30-140	50
Chrysene	ND	333	316	95	333	355	107	12	30-140	50
Dibenzo (a, h) anthracene	ND	333	395	119	333	416	125	5	40-140	50
Fluoranthene	ND	333	320	96	333	361	108	12	30-130	50
Fluorene	ND	333	358	107	333	366	110	2	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	397	119	333	420	126	5	20-160	50
Naphthalene	ND	333	294	88	333	311	93	6	10-130	50
Phenanthrene	ND	333	292	88	333	309	93	6	20-130	50
2-Methylnaphthalene	ND	333	324	97	333	341	102	5	30-150	50
1-Methylnaphthalene	ND	333	323	97	333	339	102	5	30-150	50
N-Nitrosodimethylamine	ND	333	327	98	333	346	104	6	30-150	50
Pyrene	ND	333	305	91	333	347	104	13	20-150	50
Azobenzene	ND	333	303	91	333	314	94	4	30-150	50
Benzo (e) pyrene	ND	333	331	99	333	341	102	3	30-150	50
Biphenyl	ND	333	293	88	333	291	87	1	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	311	93	333	300	90	40-130
2-Fluorobiphenyl	333	278	84	333	266	80	45-130
Terphenyl-d14	333	293	88	333	307	92	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2S  
LAB SAMP ID: SVE036SB SVE036SL SVE036SC  
LAB FILE ID: REJ453 REJ454 REJ455  
DATE EXTRACTED: 05/18/1215:20 05/18/1215:20 05/18/1215:20 DATE COLLECTED: NA  
DATE ANALYZED: 05/18/1217:42 05/18/1218:01 05/18/1218:20 DATE RECEIVED: 05/18/12  
PREP. BATCH: SVE036S SVE036S SVE036S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	322	97	333	319	96	1	10-130	50
Acenaphthylene	ND	333	366	110	333	362	109	1	20-130	50
Anthracene	ND	333	293	88	333	277	83	6	20-130	50
Benzo (a) anthracene	ND	333	332	100	333	304	91	9	30-130	50
Benzo (a) pyrene	ND	333	363	109	333	343	103	6	30-130	50
Benzo (b) fluoranthene	ND	333	399	120	333	384	115	4	40-130	50
Benzo (k) fluoranthene	ND	333	348	105	333	331	99	5	30-140	50
Benzo (g, h, i) perylene	ND	333	386	116	333	363	109	6	30-140	50
Chrysene	ND	333	313	94	333	286	86	9	30-140	50
Dibenzo (a, h) anthracene	ND	333	394	118	333	368	111	7	40-140	50
Fluoranthene	ND	333	339	102	333	312	94	8	30-130	50
Fluorene	ND	333	359	108	333	356	107	1	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	394	118	333	370	111	6	20-160	50
Naphthalene	ND	333	292	87	333	281	84	4	10-130	50
Phenanthrene	ND	333	295	88	333	282	84	5	20-130	50
2-Methylnaphthalene	ND	333	324	97	333	317	95	2	30-150	50
1-Methylnaphthalene	ND	333	323	97	333	317	95	2	30-150	50
N-Nitrosodimethylamine	ND	333	293	88	333	283	85	4	30-150	50
Pyrene	ND	333	325	97	333	297	89	9	20-150	50
Azobenzene	ND	333	268	80	333	264	79	1	30-150	50
Benzo (e) pyrene	ND	333	338	101	333	338	101	0	30-150	50
Biphenyl	ND	333	289	87	333	302	91	4	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	305	91	333	295	88	40-130
2-Fluorobiphenyl	333	295	88	333	289	87	45-130
Terphenyl-d14	333	340	102	333	307	92	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 9.0  
DILUTION FACTOR: 2 2 2  
SAMPLE ID: SL-512-SA5C-SB-0.0-0.5  
LAB SAMP ID: E082-10 E082-10M E082-10S  
LAB FILE ID: REJ387 REJ371 REJ372  
DATE EXTRACTED: 05/15/1215:57 05/15/1215:57 05/15/1215:57 DATE COLLECTED: 05/10/12  
DATE ANALYZED: 05/16/1221:25 05/16/1216:23 05/16/1216:42 DATE RECEIVED: 05/10/12  
PREP. BATCH: SVE026S SVE026S SVE026S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	366	295	81	366	297	81	1	10-130	50
Acenaphthylene	ND	366	342	93	366	340	93	0	20-130	50
Anthracene	ND	366	290	79	366	295	81	2	20-130	50
Benzo (a) anthracene	25.8	366	347	88	366	477	123	31	30-130	50
Benzo (a) pyrene	32.7	366	382	95	366	482	123	23	30-130	50
Benzo (b) fluoranthene	49.4	366	410	98	366	570	142*	33	30-130	50
Benzo (k) fluoranthene	10.5J	366	356	94	366	381	101	7	30-130	50
Benzo (g, h, i) perylene	26.2	366	372	94	366	392	100	5	30-140	50
Chrysene	26.2	366	351	89	366	479	124	31	20-130	50
Dibenzo (a, h) anthracene	6.15J	366	350	94	366	333	89	5	30-130	50
Fluoranthene	39.1	366	361	88	366	628	161*	54*	30-150	50
Fluorene	ND	366	319	87	366	329	90	3	20-130	50
Indeno (1, 2, 3-cd) pyrene	15.6J	366	369	97	366	389	102	5	20-160	50
Naphthalene	ND	366	263	72	366	250	68	5	10-130	50
Phenanthrene	11.7J	366	297	78	366	334	88	12	20-130	50
2-Methylnaphthalene	ND	366	307	84	366	296	81	4	30-150	50
1-Methylnaphthalene	ND	366	306	84	366	295	81	4	30-150	50
N-Nitrosodimethylamine	ND	366	314	86	366	295	81	6	20-150	50
Pyrene	45.6	366	367	88	366	635	161*	54*	10-160	50
Azobenzene	ND	366	291	79	366	266	73	9	30-150	50
Benzo (e) pyrene	29.3	366	328	82	366	403	102	20	30-150	50
Biphenyl	ND	366	263	72	366	275	75	4	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	366	260	71	366	262	72	40-130
2-Fluorobiphenyl	366	232	63	366	238	65	45-130
Terphenyl-d14	366	248	68	366	260	71	45-135

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/10/12
Project     : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.   : 12E082                           Date Extracted: 05/14/12 22:35
Sample ID   : EB-051012                       Date Analyzed: 05/14/12 22:35
Lab Samp ID : E082-01                         Dilution Factor: 1
Lab File ID : EE14019A                       Matrix          : WATER
Ext Btch ID : VG39E08                        % Moisture     : NA
Calib. Ref. : EE14013A                       Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	17J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	39.0	40.00	97.5 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/14/12
Batch No.    : 12E082                             Date Extracted: 05/14/12 13:29
Sample ID    : MBLK1W                             Date Analyzed: 05/14/12 13:29
Lab Samp ID  : VG39E08B                           Dilution Factor: 1
Lab File ID  : EE14006A                           Matrix          : WATER
Ext Btch ID  : VG39E08                             % Moisture      : NA
Calib. Ref.  : EE14002A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	35.8	40.00	89.5 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39E08B VG39E08L VG39E08C  
LAB FILE ID: EE14006A EE14004A EE14005A  
DATE EXTRACTED: 05/14/1213:29 05/14/1212:05 05/14/1212:47 DATE COLLECTED: NA  
DATE ANALYZED: 05/14/1213:29 05/14/1212:05 05/14/1212:47 DATE RECEIVED: 05/14/12  
PREP. BATCH: VG39E08 VG39E08 VG39E08  
CALIB. REF: EE14002A EE14002A EE14002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	473	95	500	477	95	1	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	38.2	95	40.0	39.3	98	60-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                       Date Received: 05/10/12
Batch No.    : 12E082                             Date Extracted: 05/15/12 06:59
Sample ID:   SL-529-SA5C-SB-5.0                 Date Analyzed: 05/15/12 06:59
Lab Samp ID: E082-03                             Dilution Factor: 1.02
Lab File ID: EE14031A                            Matrix          : SOIL
Ext Btch ID: GME010S                             % Moisture     : 5.6
Calib. Ref.: EE14024A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.54
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.84	2.161	85.3 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/14/12 14:19

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/10/12
Project     : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.   : 12E082                           Date Extracted: 05/15/12 07:41
Sample ID:  SL-512-SA5C-SB-5.0                 Date Analyzed: 05/15/12 07:41
Lab Samp ID: E082-05                           Dilution Factor: 0.9
Lab File ID: EE14032A                          Matrix          : SOIL
Ext Btch ID: GME010S                           % Moisture     : 11.7
Calib. Ref.: EE14024A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.77	2.039	86.9 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/14/12 14:19

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                       Date Received: 05/10/12
Batch No.    : 12E082                             Date Extracted: 05/14/12 23:17
Sample ID    : TB-051012                          Date Analyzed: 05/14/12 23:17
Lab Samp ID  : E082-07                             Dilution Factor: 1
Lab File ID  : EE14020A                           Matrix          : WATER
Ext Btch ID  : VG39E08                             % Moisture      : NA
Calib. Ref.  : EE14013A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	29J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	39.2	40.00	98.1 60-140

RL : Reporting Limit  
 Methanol Extraction: 05/14/12 14:19

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/15/12 08:23
Sample ID:   SL-513-SA5C-SB-5.0                 Date Analyzed: 05/15/12 08:23
Lab Samp ID: E082-09                             Dilution Factor: 0.94
Lab File ID: EE14033A                           Matrix          : SOIL
Ext Btch ID: GME010S                             % Moisture     : 9.8
Calib. Ref.: EE14024A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.84	2.084	88.5 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/14/12 14:19

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/15/12 09:05
Sample ID:   SL-512-SA5C-SB-7.0                 Date Analyzed: 05/15/12 09:05
Lab Samp ID: E082-12                             Dilution Factor: 0.91
Lab File ID: EE14034A                           Matrix          : SOIL
Ext Btch ID: GME010S                             % Moisture     : 11.0
Calib. Ref.: EE14024A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.63	2.045	79.6 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/14/12 14:19

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                       Date Received: 05/15/12
Batch No.   : 12E082                             Date Extracted: 05/15/12 06:17
Sample ID   : MBLK1S                             Date Analyzed: 05/15/12 06:17
Lab Samp ID: GME010SB                           Dilution Factor: 1
Lab File ID: EE14030A                           Matrix          : SOIL
Ext Btch ID: GME010S                             % Moisture     : NA
Calib. Ref.: EE14024A                           Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.83	2.000	91.7 60-130

RL : Reporting Limit  
 Methanol Extraction: 05/14/12 14:19

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GME010SB GME010SL GME010SC  
LAB FILE ID: EE14030A EE14028A EE14029A  
DATE EXTRACTED: 05/15/1206:17 05/15/1204:53 05/15/1205:35 DATE COLLECTED: NA  
DATE ANALYZED: 05/15/1206:17 05/15/1204:53 05/15/1205:35 DATE RECEIVED: 05/15/12  
PREP. BATCH: GME010S GME010S GME010S  
CALIB. REF: EE14024A EE14024A EE14024A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	24.9	100	25.0	25.4	102	2	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.29	115	2.00	2.24	112	60-130

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                       Date Received: 05/10/12
Batch No.    : 12E082                             Date Extracted: 05/14/12 12:08
Sample ID    : EB-051012                          Date Analyzed: 05/14/12 12:08
Lab Samp ID  : E082-01                             Dilution Factor: 1
Lab File ID  : BE14008A                           Matrix          : WATER
Ext Btch ID  : MEE003W                             % Moisture      : NA
Calib. Ref.  : BE14002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.    : 12E082                           Date Extracted: 05/14/12 10:55
Sample ID    : MBLK1W                           Date Analyzed: 05/14/12 10:55
Lab Samp ID  : MEE003WB                         Dilution Factor: 1
Lab File ID  : BE14004A                         Matrix          : WATER
Ext Btch ID  : MEE003W                          % Moisture     : NA
Calib. Ref.  : BE14002A                         Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 8015B

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: MEE003WB MEE003WL MEE003WC  
LAB FILE ID: BE14004A BE14005A BE14006A  
DATE EXTRACTED: 05/14/1210:55 05/14/1211:13 05/14/1211:33 DATE COLLECTED: NA  
DATE ANALYZED: 05/14/1210:55 05/14/1211:13 05/14/1211:33 DATE RECEIVED: 05/14/12  
PREP. BATCH: MEE003W MEE003W MEE003W  
CALIB. REF: BE14002A BE14002A BE14002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	8530	85	10000	8240	82	3	50-150	30
Isopropanol	ND	10000	10500	105	10000	10000	100	4	50-150	30
Methanol	ND	10000	10200	102	10000	10800	108	6	50-150	30

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/10/12
Project     : SSFL PHASE 3                       Date Received: 05/10/12
Batch No.   : 12E082                             Date Extracted: 05/14/12 13:02
Sample ID   : EB-051012                          Date Analyzed: 05/14/12 13:02
Lab Samp ID: E082-01                             Dilution Factor: 1
Lab File ID: TE14009A                           Matrix          : WATER
Ext Btch ID: PEE005W                             % Moisture     : NA
Calib. Ref.: TE14005A                           Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/14/12
Batch No.  : 12E082                             Date Extracted: 05/14/12 12:18
Sample ID  : MBLK1W                             Date Analyzed: 05/14/12 12:18
Lab Samp ID: PEE005WB                          Dilution Factor: 1
Lab File ID: TE14008A                          Matrix          : WATER
Ext Btch ID: PEE005W                           % Moisture     : NA
Calib. Ref.: TE14005A                          Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 8015M

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PEE005WB PEE005WL PEE005WC  
LAB FILE ID: TE14008A TE14006A TE14007A  
DATE EXTRACTED: 05/14/1212:18 05/14/1211:41 05/14/1211:59 DATE COLLECTED: NA  
DATE ANALYZED: 05/14/1212:18 05/14/1211:41 05/14/1211:59 DATE RECEIVED: 05/14/12  
PREP. BATCH: PEE005W PEE005W PEE005W  
CALIB. REF: TE14005A TE14005A TE14005A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	42.8	86	50.0	48.0	96	11	50-150	30
Ethylene Glycol	ND	50.0	38.4	77	50.0	43.1	86	11	50-150	30
Propylene Glycol	ND	25.0	20.5	82	25.0	22.7	91	10	50-150	30

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/16/12 12:30
Sample ID    : EB-051012                        Date Analyzed: 05/17/12 23:19
Lab Samp ID  : E082-01                          Dilution Factor: 1.05
Lab File ID  : LE17027A                         Matrix          : WATER
Ext Btch ID  : DSE020W                          % Moisture     : NA
Calib. Ref.  : LE17022A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.052
EFH(C12-C14)	ND	0.10	0.052
EFH(C15-C20)	ND	0.10	0.052
EFH(C21-C30)	ND	0.10	0.052
EFH(C30-C40)	ND	0.10	0.052
TOTAL EFH(C8-C40)	ND	0.10	0.052

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.832	1.050	79.2	40-130
HEXACOSANE	0.216	0.2625	82.5	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E082                           Date Extracted: 05/16/12 12:30
Sample ID    : MBLK1W                           Date Analyzed: 05/17/12 22:28
Lab Samp ID  : DSE020WB                         Dilution Factor: 1
Lab File ID  : LE17024A                         Matrix          : WATER
Ext Btch ID  : DSE020W                          % Moisture     : NA
Calib. Ref.  : LE17022A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.755	1.000	75.5	40-130
HEXACOSANE	0.195	0.2500	78.1	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 9.0  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-512-SA5C-SB-0.0-0.5  
LAB SAMP ID: E082-10 E082-10M E082-10S  
LAB FILE ID: LE15078A LE15079A LE15080A  
DATE EXTRACTED: 05/14/1215:34 05/14/1215:34 05/14/1215:34 DATE COLLECTED: 05/10/12  
DATE ANALYZED: 05/16/1211:13 05/16/1211:30 05/16/1211:47 DATE RECEIVED: 05/10/12  
PREP. BATCH: DSE018S DSE018S DSE018S  
CALIB. REF: LE15073A LE15073A LE15073A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	67.7	549	551	88	549	757	126	32	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	110	81.7	74	110	80.6	73	50-150
Hexacosane	27.5	20.5	75	27.5	25.3	92	50-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/14/12 15:34
Sample ID:   SL-529-SA5C-SB-4.0-5.0           Date Analyzed: 05/16/12 09:15
Lab Samp ID: E082-02                           Dilution Factor: 1
Lab File ID: LE15071A                          Matrix          : SOIL
Ext Btch ID: DSE018S                           % Moisture     : 8.6
Calib. Ref.: LE15061A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	6.9	5.5	2.7
EFH(C30-C40)	12	11	5.5
TOTAL EFH(C8-C40)	19	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.1	109.4	68.7	50-150
HEXACOSANE	20.0	27.35	73.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/14/12 15:34
Sample ID:   SL-512-SA5C-SB-4.0-5.0           Date Analyzed: 05/16/12 10:23
Lab Samp ID: E082-04                           Dilution Factor: 1
Lab File ID: LE15075A                          Matrix          : SOIL
Ext Btch ID: DSE018S                           % Moisture     : 13.6
Calib. Ref.: LE15073A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.0	115.7	64.8	50-150
HEXACOSANE	20.5	28.94	70.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/14/12 15:34
Sample ID    : SL-812-SA5C-SB-0.0-0.5          Date Analyzed: 05/16/12 10:57
Lab Samp ID  : E082-06                           Dilution Factor: 1
Lab File ID  : LE15077A                          Matrix          : SOIL
Ext Btch ID  : DSE018S                            % Moisture     : 9.5
Calib. Ref.  : LE15073A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	44	5.5	2.8
EFH(C30-C40)	110	11	5.5
TOTAL EFH(C8-C40)	150	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.9	110.5	69.6	50-150
HEXACOSANE	21.7	27.62	78.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/14/12 15:34
Sample ID:   SL-513-SA5C-SB-4.0-5.0           Date Analyzed: 05/16/12 09:32
Lab Samp ID: E082-08                           Dilution Factor: 1
Lab File ID: LE15072A                          Matrix          : SOIL
Ext Btch ID: DSE018S                            % Moisture     : 11.3
Calib. Ref.: LE15061A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.1	112.7	66.6	50-150
HEXACOSANE	19.9	28.18	70.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/14/12 15:34
Sample ID:   SL-512-SA5C-SB-0.0-0.5            Date Analyzed: 05/16/12 11:13
Lab Samp ID: E082-10                            Dilution Factor: 1
Lab File ID: LE15078A                          Matrix          : SOIL
Ext Btch ID: DSE018S                           % Moisture     : 9.0
Calib. Ref.: LE15073A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	22	5.5	2.7
EFH(C30-C40)	46	11	5.5
TOTAL EFH(C8-C40)	68	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.6	109.9	67.9	50-150
HEXACOSANE	21.1	27.47	76.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/14/12 15:34
Sample ID:   SL-512-SA5C-SB-6.0-7.0           Date Analyzed: 05/16/12 10:39
Lab Samp ID: E082-11                           Dilution Factor: 1
Lab File ID: LE15076A                          Matrix          : SOIL
Ext Btch ID: DSE018S                            % Moisture     : 13.0
Calib. Ref.: LE15073A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	ND	5.7	2.9
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.8	114.9	67.7	50-150
HEXACOSANE	20.5	28.74	71.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/14/12
Batch No.    : 12E082                             Date Extracted: 05/14/12 15:34
Sample ID    : MBLK1S                             Date Analyzed: 05/16/12 05:17
Lab Samp ID  : DSE018SB                           Dilution Factor: 1
Lab File ID  : LE15057A                           Matrix          : SOIL
Ext Btch ID  : DSE018S                             % Moisture      : NA
Calib. Ref.  : LE15049A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.9	100.0	69.9	50-150
HEXACOSANE	16.3	25.00	65.4	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE018SB DSE018SL DSE018SC  
LAB FILE ID: LE15057A LE15055A LE15056A  
DATE EXTRACTED: 05/14/1215:34 05/14/1215:34 05/14/1215:34 DATE COLLECTED: NA  
DATE ANALYZED: 05/16/1205:17 05/16/1204:43 05/16/1205:00 DATE RECEIVED: 05/14/12  
PREP. BATCH: DSE018S DSE018S DSE018S  
CALIB. REF: LE15049A LE15049A LE15049A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	457	91	500	462	92	1	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	77.7	78	100	76.8	77	50-150
Hexacosane	25.0	17.2	69	25.0	17.4	70	50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSE020WB DSE020WL DSE020WC  
LAB FILE ID: LE17024A LE17025A LE17026A  
DATE EXTRACTED: 05/16/1212:30 05/16/1212:30 05/16/1212:30 DATE COLLECTED: NA  
DATE ANALYZED: 05/17/1222:28 05/17/1222:45 05/17/1223:02 DATE RECEIVED: 05/16/12  
PREP. BATCH: DSE020W DSE020W DSE020W  
CALIB. REF: LE17022A LE17022A LE17022A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.93	99	5.00	4.99	100	1	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.790	79	1.00	0.831	83	40-130
Hexacosane	0.250	0.201	80	0.250	0.216	86	40-150

METHOD 3520C/8081A  
PESTICIDES

```

=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/16/12 14:00
Sample ID    : EB-051012                       Date Analyzed: 05/17/12 19:41
Lab Samp ID  : E082-01                         Dilution Factor: 1.06
Lab File ID  : ME17013A                       Matrix          : WATER
Ext Btch ID  : CPE023W                        % Moisture     : NA
Calib. Ref.  : ME17004A                       Instrument ID   : GCE8
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ALPHA-BHC	0.10J   (ND)	0.11	0.011   0.011
GAMMA-BHC (LINDANE)	(ND)   ND	0.11	0.011   0.011
BETA-BHC	(ND)   0.024J	0.11	0.011   0.011
HEPTACHLOR	(ND)   ND	0.11	0.011   0.011
DELTA-BHC	(ND)   0.016J	0.11	0.011   0.011
ALDRIN	(ND)   ND	0.11	0.011   0.011
HEPTACHLOR EPOXIDE	(ND)   ND	0.11	0.011   0.011
ENDOSULFAN I	(ND)   ND	0.11	0.011   0.011
4,4'-DDE	(ND)   ND	0.11	0.011   0.011
DIELDRIN	0.040J   (ND)	0.11	0.011   0.011
ENDRIN	(ND)   ND	0.11	0.011   0.011
4,4'-DDD	(ND)   ND	0.11	0.011   0.011
ENDOSULFAN II	0.016J   (ND)	0.11	0.011   0.011
4,4'-DDT	0.016J   (ND)	0.11	0.011   0.011
ENDRIN ALDEHYDE	(ND)   ND	0.11	0.011   0.011
ENDOSULFAN SULFATE	(ND)   ND	0.11	0.011   0.011
ENDRIN KETONE	(ND)   ND	0.11	0.011   0.011
METHOXYCHLOR	(ND)   ND	1.1	0.11   0.11
MIREX	(ND)   ND	0.11	0.011   0.011
TOXAPHENE	(ND)   ND	2.1	0.53   0.53
CHLORDANE (TECHNICAL)	(ND)   ND	1.1	0.26   0.26

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(0.4126)   0.3768	0.4240	(97.3)   88.9	60-140
DECACHLOROBIPHENYL	(0.4014)   0.3954	0.4240	(94.7)   93.3	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3520C/8081A  
PESTICIDES

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E082                           Date Extracted: 05/16/12 14:00
Sample ID    : MBLK1W                            Date Analyzed: 05/17/12 17:49
Lab Samp ID  : CPE023WB                         Dilution Factor: 1
Lab File ID  : ME17008A                        Matrix          : WATER
Ext Btch ID  : CPE023W                         % Moisture     : NA
Calib. Ref.  : ME17004A                        Instrument ID   : GCE8
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ALPHA-BHC	(ND)   ND	0.10	0.010   0.010
GAMMA-BHC (LINDANE)	(ND)   ND	0.10	0.010   0.010
BETA-BHC	(ND)   ND	0.10	0.010   0.010
HEPTACHLOR	(ND)   ND	0.10	0.010   0.010
DELTA-BHC	(ND)   ND	0.10	0.010   0.010
ALDRIN	(ND)   ND	0.10	0.010   0.010
HEPTACHLOR EPOXIDE	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN I	(ND)   ND	0.10	0.010   0.010
4,4'-DDE	(ND)   ND	0.10	0.010   0.010
DIELDRIN	(ND)   ND	0.10	0.010   0.010
ENDRIN	(ND)   ND	0.10	0.010   0.010
4,4'-DDD	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN II	(ND)   ND	0.10	0.010   0.010
4,4'-DDT	(ND)   ND	0.10	0.010   0.010
ENDRIN ALDEHYDE	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN SULFATE	(ND)   ND	0.10	0.010   0.010
ENDRIN KETONE	(ND)   ND	0.10	0.010   0.010
METHOXYCHLOR	(ND)   ND	1.0	0.10   0.10
MIREX	(ND)   ND	0.10	0.010   0.010
TOXAPHENE	(ND)   ND	2.0	0.50   0.50
CHLORDANE (TECHNICAL)	(ND)   ND	1.0	0.25   0.25

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(0.3449)   0.3435	0.4000	(86.2)   85.9	60-140
DECACHLOROBIPHENYL	0.3610   (0.3691)	0.4000	90.3   (92.3)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPE023WB CPE023WL CPE023WC  
LAB FILE ID: ME17008A ME17009A ME17010A  
DATE EXTRACTED: 05/16/1214:00 05/16/1214:00 05/16/1214:00 DATE COLLECTED: NA  
DATE ANALYZED: 05/17/1217:49 05/17/1218:11 05/17/1218:34 DATE RECEIVED: 05/16/12  
PREP. BATCH: CPE023W CPE023W CPE023W  
CALIB. REF: ME17004A ME17004A ME17004A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
alpha-BHC	(ND)   ND	0.200	(0.244)   0.230	(122)   115	0.200	(0.241)   0.225	(120)   112	(1)   2	30-150	30
gamma-BHC (Lindane)	(ND)   ND	0.200	0.230   (0.233)	115   (116)	0.200	(0.229)   0.227	(114)   114	(0)   3	40-130	30
beta-BHC	(ND)   ND	0.200	0.242   (0.249)	121   (124)	0.200	(0.244)   0.238	(122)   119	(1)   5	60-130	30
Heptachlor	(ND)   ND	0.200	0.230   (0.231)	115   (116)	0.200	(0.226)   0.223	(113)   112	(2)   4	30-140	30
delta-BHC	(ND)   ND	0.200	0.238   (0.244)	119   (122)	0.200	0.236   (0.242)	118   (121)	1   (1)	30-150	30
Aldrin	(ND)   ND	0.200	0.212   (0.217)	106   (108)	0.200	(0.208)   0.208	(104)   104	(2)   4	40-130	30
Heptachlor Epoxide	(ND)   ND	0.200	0.222   (0.225)	111   (112)	0.200	0.219   (0.221)	110   (110)	1   (2)	50-140	30
Endosulfan I	(ND)   ND	0.200	0.206   (0.223)	103   (112)	0.200	0.205   (0.215)	102   (108)	0   (4)	60-140	30
4,4'-DDE	(ND)   ND	0.200	0.210   (0.233)	105   (116)	0.200	0.214   (0.230)	107   (115)	2   (1)	50-140	30
Dieldrin	(ND)   ND	0.200	0.220   (0.225)	110   (112)	0.200	(0.221)   0.216	(110)   108	(0)   4	60-140	30
Endrin	(ND)   ND	0.200	(0.230)   0.219	(115)   110	0.200	(0.234)   0.218	(117)   109	(2)   0	50-140	30
4,4'-DDD	(ND)   ND	0.200	0.231   (0.239)	116   (119)	0.200	0.224   (0.240)	112   (120)	3   (0)	50-160	30
Endosulfan II	(ND)   ND	0.200	(0.231)   0.230	(116)   115	0.200	(0.232)   0.227	(116)   114	(0)   1	60-150	30
4,4'-DDT	(ND)   ND	0.200	(0.271)   0.241	(136)   120	0.200	(0.278)   0.238	(139)   119	(3)   1	60-140	30
Endrin aldehyde	(ND)   ND	0.200	(0.213)   0.211	(106)   105	0.200	(0.221)   0.214	(110)   107	(4)   1	60-160	30
Endosulfan Sulfate	(ND)   ND	0.200	(0.228)   0.225	(114)   112	0.200	(0.229)   0.222	(114)   111	(0)   1	70-140	30
Endrin Ketone	(ND)   ND	0.200	(0.221)   0.214	(110)   107	0.200	(0.220)   0.210	(110)   105	(0)   2	30-150	30
Methoxychlor	(ND)   ND	2.00	2.29   (2.38)	114   (119)	2.00	2.27   (2.35)	114   (117)	1   (1)	70-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Tetrachloro-m-xylene	0.4000	0.3930   (0.3932)	98.2   (98.3)	0.4000	(0.3944)   0.3824	(98.6)   95.6	60-140
Decachlorobiphenyl	0.4000	0.3793   (0.3852)	94.8   (96.3)	0.4000	(0.3839)   0.3778	(96.0)   94.5	20-120

METHOD 3520C/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 05/10/12
Project     : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.   : 12E082                           Date Extracted: 05/16/12 14:00
Sample ID   : EB-051012                       Date Analyzed: 05/22/12 15:09
Lab Samp ID: E082-01                           Dilution Factor: 1.06
Lab File ID: SE22013A                         Matrix          : WATER
Ext Btch ID: CPE023W                          % Moisture     : NA
Calib. Ref.: SE22003A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.1	0.53   0.53
AROCLOR 1221	(ND)   ND	1.1	0.53   0.53
AROCLOR 1232	(ND)   ND	1.1	0.53   0.53
AROCLOR 1242	(ND)   ND	1.1	0.53   0.53
AROCLOR 1248	(ND)   ND	1.1	0.53   0.53
AROCLOR 1254	(ND)   ND	1.1	0.53   0.53
AROCLOR 1260	(ND)   ND	1.1	0.53   0.53
AROCLOR 1262	(ND)   ND	1.1	0.53   0.53
AROCLOR 1268	(ND)   ND	1.1	0.53   0.53
AROCLOR 5432	(ND)   ND	2.1	1.1   1.1
AROCLOR 5442	(ND)   ND	2.1	1.1   1.1
AROCLOR 5460	(ND)   ND	2.1	1.1   1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	0.4386   (0.4770)	0.4240	103   (113)	45-120
TETRACHLORO-M-XYLENE	0.3907   (0.4198)	0.4240	92.1   (99.0)	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3520C/8082  
PCBs

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E082                           Date Extracted: 05/16/12 14:00
Sample ID    : MBLK1W                            Date Analyzed: 05/22/12 12:09
Lab Samp ID  : CPE023WB                         Dilution Factor: 1
Lab File ID  : SE22006A                        Matrix          : WATER
Ext Btch ID  : CPE023W                          % Moisture     : NA
Calib. Ref.  : SE22003A                        Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	0.4051   (0.4344)	0.4000	101   (109)	45-120
TETRACHLORO-M-XYLENE	0.3779   (0.4095)	0.4000	94.5   (102)	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 3520C/8082

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPE023WB 60E023WX 60E023WY  
LAB FILE ID: SE22006A SE22011A SE22012A  
DATE EXTRACTED: 05/16/1214:00 05/16/1214:00 05/16/1214:00 DATE COLLECTED: NA  
DATE ANALYZED: 05/22/1212:09 05/22/1214:00 05/22/1214:34 DATE RECEIVED: 05/16/12  
PREP. BATCH: CPE023W CPE023W CPE023W  
CALIB. REF: SE22003A SE22003A SE22003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	5.17   (5.27)	103   (105)	5.00	(5.21)   5.20	(104)   104	(1)   1	50-130	30
Aroclor 1260	(ND)   ND	5.00	5.61   (5.69)	112   (114)	5.00	5.65   (5.81)	113   (116)	1   (2)	60-150	30
Aroclor 5460	(ND)   ND	2.50	(2.94)   2.78	(118)   111	2.50	(3.22)   3.06	(129)   122	(9)   10	50-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	0.4032   (0.4474)	101   (112)	0.4000	0.4171   (0.4618)	104   (115)	45-120
Tetrachloro-m-xylene	0.4000	0.4008   (0.4452)	100   (111)	0.4000	0.4014   (0.4494)	100   (112)	30-140

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/09/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/21/12 14:39
Sample ID:   SL-529-SA5C-SB-4.0-5.0           Date Analyzed: 05/22/12 18:55
Lab Samp ID: E082-02                           Dilution Factor: 1
Lab File ID: SE22021A                          Matrix          : SOIL
Ext Btch ID: CPE027S                            % Moisture     : 8.6
Calib. Ref.: SE22015A                          Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.98   (16.19)	14.58	95.9   (111)	45-120
TETRACHLORO-M-XYLENE	14.25   (14.32)	14.58	97.7   (98.2)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/21/12 14:39
Sample ID    : SL-512-SA5C-SB-4.0-5.0          Date Analyzed: 05/22/12 19:29
Lab Samp ID  : E082-04                           Dilution Factor: 1
Lab File ID  : SE22022A                          Matrix          : SOIL
Ext Btch ID  : CPE027S                            % Moisture     : 13.6
Calib. Ref.  : SE22015A                          Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	15.03   (16.23)	15.43	97.4   (105)	45-120
TETRACHLORO-M-XYLENE	13.45   (13.93)	15.43	87.2   (90.3)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/21/12 14:39
Sample ID:   SL-812-SA5C-SB-0.0-0.5            Date Analyzed: 05/22/12 20:04
Lab Samp ID: E082-06                            Dilution Factor: 1
Lab File ID: SE22023A                           Matrix          : SOIL
Ext Btch ID: CPE027S                             % Moisture     : 9.5
Calib. Ref.: SE22015A                           Instrument ID   : GCT008
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```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(22J)   20J	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.81   (16.81)	14.73	93.8   (114)	45-120
TETRACHLORO-M-XYLENE	(16.86)   16.86	14.73	114   (114)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/21/12 14:39
Sample ID:   SL-513-SA5C-SB-4.0-5.0           Date Analyzed: 05/22/12 20:38
Lab Samp ID: E082-08                           Dilution Factor: 1
Lab File ID: SE22024A                          Matrix          : SOIL
Ext Btch ID: CPE027S                           % Moisture     : 11.3
Calib. Ref.: SE22015A                          Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	15.29   (16.53)	15.03	102   (110)	45-120
TETRACHLORO-M-XYLENE	14.19   (14.71)	15.03	94.4   (97.8)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/21/12 14:39
Sample ID    : SL-512-SA5C-SB-0.0-0.5          Date Analyzed: 05/22/12 21:12
Lab Samp ID  : E082-10                           Dilution Factor: 1
Lab File ID  : SE22025A                          Matrix          : SOIL
Ext Btch ID  : CPE027S                           % Moisture     : 9.0
Calib. Ref. : SE22015A                          Instrument ID   : GCT008
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```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(21J)   20J	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.54   (16.56)	14.65	92.4   (113)	45-120
TETRACHLORO-M-XYLENE	17.42   (17.51)	14.65	119   (120)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/21/12 14:39
Sample ID    : SL-512-SA5C-SB-6.0-7.0          Date Analyzed: 05/22/12 22:55
Lab Samp ID  : E082-11                           Dilution Factor: 1
Lab File ID  : SE22028A                          Matrix          : SOIL
Ext Btch ID  : CPE027S                            % Moisture     : 13.0
Calib. Ref.  : SE22015A                          Instrument ID   : GCT008
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```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	15.88   (16.89)	15.32	104   (110)	45-120
TETRACHLORO-M-XYLENE	(15.12)   15.12	15.32	98.7   (98.7)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.   : 12E082                           Date Extracted: 05/21/12 14:39
Sample ID   : MBLK1S                           Date Analyzed: 05/22/12 17:12
Lab Samp ID: 60E027SB                         Dilution Factor: 1
Lab File ID: SE22018A                         Matrix          : SOIL
Ext Btch ID: CPE027S                          % Moisture     : NA
Calib. Ref.: SE22015A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.81)   17.17	13.33	(119)   129*	45-120
TETRACHLORO-M-XYLENE	14.81   (14.90)	13.33	111   (112)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E027SB 60E027SL 60E027SC  
LAB FILE ID: SE22018A SE22019A SE22020A  
DATE EXTRACTED: 05/21/1214:39 05/21/1214:39 05/21/1214:39 DATE COLLECTED: NA  
DATE ANALYZED: 05/22/1217:12 05/22/1217:47 05/22/1218:21 DATE RECEIVED: 05/21/12  
PREP. BATCH: CPE027S CPE027S CPE027S  
CALIB. REF: SE22015A SE22015A SE22015A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	184   (193)	110   (116)	167	180   (189)	108   (113)	2   (2)	50-130	50
Aroclor 1260	(ND)   ND	167	202   (212)	121   (127)	167	201   (211)	121   (127)	0   (0)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(109)   108	(131)   130	83.3	(104)   104	(125)   125	(5)   4	50-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(15.79)   16.80	(118)   126*	13.33	(15.79)   17.10	(118)   128*	45-120
Tetrachloro-m-xylene	13.33	14.51   (15.07)	109   (113)	13.33	14.35   (14.58)	108   (109)	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: 9.0  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-512-SA5C-SB-0.0-0.5  
LAB SAMP ID: E082-10 E082-10M E082-10S  
LAB FILE ID: SE22025A SE22026A SE22027A  
DATE EXTRACTED: 05/21/1214:39 05/21/1214:39 05/21/1214:39 DATE COLLECTED: 05/10/12  
DATE ANALYZED: 05/22/1221:12 05/22/1221:46 05/22/1222:20 DATE RECEIVED: 05/10/12  
PREP. BATCH: CPE027S CPE027S CPE027S  
CALIB. REF: SE22015A SE22015A SE22015A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	183	177   (195)	97   (106)	183	182   (201)	99   (110)	3   (3)	20-160	50
Aroclor 1260	(21J)   20J	183	(171)   189	(82)   92	183	(186)   201	(90)   99	(8)   6	20-160	50
Aroclor 5460	(ND)   ND	91.6	105   (107)	115   (117)	91.6	115   (116)	126   (127)	9   (8)	20-160	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.65	12.52   (15.03)	85.5   (103)	14.65	13.40   (15.74)	91.5   (107)	45-120
Tetrachloro-m-xylene	14.65	16.17   (16.80)	110   (115)	14.65	16.44   (16.72)	112   (114)	10-160

METHOD 8151A  
HERBICIDES

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=====
Client       : CDM                               Date Collected: 05/10/12
Project      : SSFL PHASE 3                     Date Received: 05/10/12
Batch No.    : 12E082                           Date Extracted: 05/16/12 17:33
Sample ID    : EB-051012                        Date Analyzed: 05/17/12 12:08
Lab Samp ID  : E082-01                          Dilution Factor: 1
Lab File ID  : WE17007A                         Matrix          : WATER
Ext Btch ID  : HEE006W                          % Moisture     : NA
Calib. Ref.  : WE17002A                         Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
2,4-D	(ND)   ND	0.80	0.20   0.20	
2,4-DB	0.50J   (ND)	0.80	0.20   0.20	
2,4,5-T	(ND)   ND	0.80	0.20   0.20	
2,4,5-TP (SILVEX)	0.32J   (ND)	0.80	0.20   0.20	
DALAPON	(ND)   ND	0.80	0.20   0.20	
DICAMBA	(ND)   ND	0.80	0.20   0.20	
DICHLOROPROP	(ND)   0.72J	0.80	0.20   0.20	
DINOSEB	(ND)   ND	0.80	0.20   0.20	
MCPA	(ND)   ND	100	20   20	
MCPB	27J   (ND)	100	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	9.818   (9.866)	10.00	98.2   (98.7)	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/16/12
Batch No.    : 12E082                             Date Extracted: 05/16/12 17:33
Sample ID    : MBLK1W                             Date Analyzed: 05/17/12 10:47
Lab Samp ID  : HEE006WB                           Dilution Factor: 1
Lab File ID  : WE17003A                           Matrix          : WATER
Ext Btch ID  : HEE006W                             % Moisture     : NA
Calib. Ref.  : WE17002A                           Instrument ID   : GCT016
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
2,4-D	(ND)   ND	0.80	0.20   0.20	
2,4-DB	0.48J   (ND)	0.80	0.20   0.20	
2,4,5-T	(ND)   ND	0.80	0.20   0.20	
2,4,5-TP (SILVEX)	(ND)   ND	0.80	0.20   0.20	
DALAPON	(ND)   ND	0.80	0.20   0.20	
DICAMBA	(ND)   ND	0.80	0.20   0.20	
DICHLOROPROP	(ND)   0.64J	0.80	0.20   0.20	
DINoseb	(ND)   ND	0.80	0.20   0.20	
MCPA	(ND)   380	100	20   20	
MCPP	(ND)   ND	100	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(11.13)   10.74	10.00	(111)   107	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 8151A

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HEE006WB HEE006WL HEE006WC  
LAB FILE ID: WE17003A WE17004A WE17005A  
DATE EXTRACTED: 05/16/1217:33 05/16/1217:33 05/16/1217:33 DATE COLLECTED: NA  
DATE ANALYZED: 05/17/1210:47 05/17/1211:07 05/17/1211:28 DATE RECEIVED: 05/16/12  
PREP. BATCH: HEE006W HEE006W HEE006W  
CALIB. REF: WE17002A WE17002A WE17002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
2,4-D	(ND)   ND	1.00	0.899   (1.17)	90   (117)	1.00	0.723J   (1.01)	72   (101)	22   (15)	40-130	30
2,4-DB	0.48J   (ND)	1.00	1.28   (1.29)	128   (129)	1.00	1.18   (1.31)	118   (131)	8   (2)	30-160	30
2,4,5-T	(ND)   ND	1.00	(0.797J)   1.67	(80)   167*	1.00	(0.691J)   1.38	(69)   138	(14)   19	40-140	30
2,4,5-TP (Silvex)	(ND)   ND	1.00	(1.31)   1.47	(131)   147*	1.00	(1.22)   1.24	(122)   124	(7)   17	60-140	30
Dalapon	(ND)   ND	1.00	0.375J   (0.812)	38   (81)	1.00	0.364J   (0.815)	36   (82)	3   (0)	30-130	30
Dicamba	(ND)   ND	1.00	1.03   (1.16)	103   (116)	1.00	0.855   (0.994)	86   (99)	19   (15)	50-130	30
Dichloroprop	(ND)   0.64J	1.00	(1.45)   1.93	(145)   193*	1.00	(1.13)   1.63	(113)   163*	(25)   17	70-150	30
Dinoseb	(ND)   ND	1.00	0.515J   (0.749J)	52   (75)	1.00	0.444J   (0.622J)	44   (62)	15   (19)	20-130	30
MCPA	(ND)   380	50.0	(51.5J)   54.3J	(103)   109	50.0	(44.9J)   40.8J	(90)   82	(14)   28	30-150	30
MCPP	(ND)   ND	50.0	(65.7J)   38.4J	(131)   77	50.0	(60.5J)   29.0J	(121)   58	(8)   28	30-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
2,4-DCPAA	10.00	10.97   (11.06)	110   (111)	10.00	9.484   (9.635)	94.8   (96.3)	40-140

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/10/12
Project     : SSFL PHASE 3                     Date Received: 05/10/12
SDG NO.    : 12E082                            Date Extracted: 05/15/12 11:00
Sample ID   : EB-051012                        Date Analyzed: 05/21/12 11:57
Lab Samp ID : E082-01                          Dilution Factor: 1
Lab File ID : 98E10027                         Matrix          : WATER
Ext Btch ID : IME020W                          % Moisture     : NA
Calib. Ref. : 98E10018                         Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	0.0421J	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00572J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.00178	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	0.0575J	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/15/12
SDG NO.    : 12E082                           Date Extracted: 05/15/12 11:00
Sample ID   : MBLK1W                           Date Analyzed: 05/21/12 11:43
Lab Samp ID: IME020WB                          Dilution Factor: 1
Lab File ID: 98E10024                          Matrix          : WATER
Ext Btch ID: IME020W                           % Moisture     : NA
Calib. Ref.: 98E10018                          Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E082  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IME020WB IME020WL IME020WC  
LAB FILE ID: 98E10024 98E10025 98E10026  
DATIME EXTRACTD: 05/15/1211:00 05/15/1211:00 05/15/1211:00 DATE COLLECTED: NA  
DATIME ANALYZD: 05/21/1211:43 05/21/1211:48 05/21/1211:52 DATE RECEIVED: 05/15/12  
PREP. BATCH: IME020W IME020W IME020W  
CALIB. REF: 98E10018 98E10018 98E10018

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.62	105	2.50	2.57	103	2	80-120	20
Antimony	ND	0.0250	0.0258	103	0.0250	0.0259	104	0	80-120	20
Arsenic	ND	0.0250	0.0254	101	0.0250	0.0255	102	1	80-120	20
Barium	ND	0.0250	0.0258	103	0.0250	0.0259	103	0	80-120	20
Beryllium	ND	0.0250	0.0262	105	0.0250	0.0261	104	1	80-120	20
Boron	ND	0.0250	0.0269	107	0.0250	0.0268	107	0	80-120	20
Cadmium	ND	0.0250	0.0253	101	0.0250	0.0254	102	0	80-120	20
Calcium	ND	2.50	2.77	111	2.50	2.73	109	1	80-120	20
Chromium	ND	0.0250	0.0253	101	0.0250	0.0252	101	1	80-120	20
Cobalt	ND	0.0250	0.0253	101	0.0250	0.0252	101	1	80-120	20
Copper	ND	0.0250	0.0255	102	0.0250	0.0256	103	1	80-120	20
Iron	ND	2.50	2.73	109	2.50	2.66	106	3	80-120	20
Lead	ND	0.0250	0.0259	104	0.0250	0.0257	103	1	80-120	20
Magnesium	ND	2.50	2.63	105	2.50	2.57	103	2	80-120	20
Manganese	ND	0.0250	0.0257	103	0.0250	0.0256	103	0	80-120	20
Molybdenum	ND	0.0250	0.0251	100	0.0250	0.0251	100	0	80-120	20
Nickel	ND	0.0250	0.0251	100	0.0250	0.0249	100	1	80-120	20
Potassium	ND	2.50	2.77	111	2.50	2.70	108	3	80-120	20
Selenium	ND	0.0250	0.0257	103	0.0250	0.0259	104	1	80-120	20
Silver	ND	0.0250	0.0257	103	0.0250	0.0256	103	0	80-120	20
Sodium	ND	2.50	2.67	107	2.50	2.60	104	3	80-120	20
Strontium	ND	0.0250	0.0258	103	0.0250	0.0258	103	0	80-120	20
Thallium	ND	0.0250	0.0255	102	0.0250	0.0253	101	1	80-120	20
Tin	ND	0.0250	0.0263	105	0.0250	0.0261	104	1	80-120	20
Titanium	ND	0.0250	0.0258	103	0.0250	0.0257	103	0	80-120	20
Vanadium	ND	0.0250	0.0252	101	0.0250	0.0250	100	1	80-120	20
Zinc	ND	0.0500	0.0518	104	0.0500	0.0531	106	2	80-120	20
Lithium	ND	0.0250	0.0254	101	0.0250	0.0251	100	1	80-120	20
Phosphorus	ND	0.250	0.254	102	0.250	0.250	100	2	80-120	20
Zirconium	ND	0.0250	0.0256	102	0.0250	0.0259	103	1	80-120	20

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/09/12
Project    : SSFL PHASE 3                     Date Received: 05/10/12
SDG NO.    : 12E082                           Date Extracted: 05/15/12 10:10
Sample ID: SL-529-SA5C-SB-4.0-5.0           Date Analyzed: 05/17/12 21:13
Lab Samp ID: E082-02                         Dilution Factor: 1.00
Lab File ID: 98E09103                       Matrix          : SOIL
Ext Btch ID: IME019S                        % Moisture     : 8.6
Calib. Ref.: 98E09101                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15200	109	13.1
Antimony	0.178J	0.547	0.109
Arsenic	5.16	0.547	0.219
Barium	101	0.547	0.219
Beryllium	0.911	0.547	0.0547
Boron	ND	5.47	2.74
Cadmium	0.166J	0.547	0.0547
Calcium	3580	21.9	10.9
Chromium	17.8	0.547	0.219
Cobalt	13.0	0.547	0.0547
Copper	6.60	0.547	0.219
Iron	20300	109	10.9
Lead	5.69	0.547	0.109
Magnesium	3770	10.9	5.47
Manganese	202	0.547	0.274
Molybdenum	0.284J	0.547	0.0547
Nickel	10.5	0.547	0.219
Potassium	1800	109	32.8
Selenium	ND	0.547	0.219
Silver	ND	0.547	0.0547
Sodium	440	109	54.7
Strontium	32.9	0.547	0.274
Thallium	0.237J	0.438	0.0547
Tin	ND	10.9	5.47
Titanium	841	1.09	0.547
Vanadium	37.4	0.547	0.0547
Zinc	41.7	5.47	1.64
Lithium	19.5	2.19	1.09
Phosphorus	110	13.1	6.56
Zirconium	ND	5.47	2.74

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/10/12
Project    : SSFL PHASE 3                     Date Received: 05/10/12
SDG NO.    : 12E082                           Date Extracted: 05/15/12 10:10
Sample ID: SL-512-SA5C-SB-4.0-5.0           Date Analyzed: 05/17/12 21:17
Lab Samp ID: E082-04                         Dilution Factor: 0.966
Lab File ID: 98E09104                       Matrix          : SOIL
Ext Btch ID: IME019S                        % Moisture     : 13.6
Calib. Ref.: 98E09101                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	21500	112	13.4
Antimony	0.201J	0.559	0.112
Arsenic	5.37	0.559	0.224
Barium	173	0.559	0.224
Beryllium	1.01	0.559	0.0559
Boron	2.93J	5.59	2.80
Cadmium	0.300J	0.559	0.0559
Calcium	33500	22.4	11.2
Chromium	25.2	0.559	0.224
Cobalt	6.90	0.559	0.0559
Copper	9.54	0.559	0.224
Iron	25900	112	11.2
Lead	7.05	0.559	0.112
Magnesium	5740	11.2	5.59
Manganese	270	0.559	0.280
Molybdenum	0.123J	0.559	0.0559
Nickel	16.6	0.559	0.224
Potassium	1580	112	33.5
Selenium	ND	0.559	0.224
Silver	0.474J	0.559	0.0559
Sodium	285	112	55.9
Strontium	70.8	0.559	0.280
Thallium	0.226J	0.447	0.0559
Tin	ND	11.2	5.59
Titanium	744	1.12	0.559
Vanadium	47.8	0.559	0.0559
Zinc	44.9	5.59	1.68
Lithium	30.5	2.24	1.12
Phosphorus	111	13.4	6.71
Zirconium	3.46J	5.59	2.80

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/10/12
Project     : SSFL PHASE 3                     Date Received: 05/10/12
SDG NO.    : 12E082                           Date Extracted: 05/15/12 10:10
Sample ID:  SL-812-SA5C-SB-0.0-0.5           Date Analyzed: 05/17/12 21:22
Lab Samp ID: E082-06                          Dilution Factor: 0.948
Lab File ID: 98E09105                         Matrix          : SOIL
Ext Btch ID: IME019S                          % Moisture     : 9.5
Calib. Ref.: 98E09101                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14400	105	12.6
Antimony	0.237J	0.524	0.105
Arsenic	4.56	0.524	0.210
Barium	122	0.524	0.210
Beryllium	0.647	0.524	0.0524
Boron	3.57J	5.24	2.62
Cadmium	0.508J	0.524	0.0524
Calcium	7360	21.0	10.5
Chromium	21.4	0.524	0.210
Cobalt	7.52	0.524	0.0524
Copper	10.7	0.524	0.210
Iron	20500	105	10.5
Lead	13.8	0.524	0.105
Magnesium	4070	10.5	5.24
Manganese	294	0.524	0.262
Molybdenum	0.524	0.524	0.0524
Nickel	13.1	0.524	0.210
Potassium	2680	105	31.4
Selenium	0.250J	0.524	0.210
Silver	0.761	0.524	0.0524
Sodium	85.2J	105	52.4
Strontium	35.2	0.524	0.262
Thallium	0.233J	0.419	0.0524
Tin	ND	10.5	5.24
Titanium	700	1.05	0.524
Vanadium	38.6	0.524	0.0524
Zinc	92.7	5.24	1.57
Lithium	15.2	2.10	1.05
Phosphorus	257	12.6	6.29
Zirconium	ND	5.24	2.62

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/10/12
Project    : SSFL PHASE 3                     Date Received: 05/10/12
SDG NO.    : 12E082                           Date Extracted: 05/15/12 10:10
Sample ID  : SL-513-SA5C-SB-4.0-5.0          Date Analyzed: 05/17/12 21:26
Lab Samp ID: E082-08                           Dilution Factor: 0.966
Lab File ID: 98E09106                         Matrix          : SOIL
Ext Btch ID: IME019S                          % Moisture     : 11.3
Calib. Ref.: 98E09101                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	21400	109	13.1
Antimony	0.200J	0.545	0.109
Arsenic	5.38	0.545	0.218
Barium	172	0.545	0.218
Beryllium	0.995	0.545	0.0545
Boron	ND	5.45	2.72
Cadmium	0.238J	0.545	0.0545
Calcium	6420	21.8	10.9
Chromium	24.5	0.545	0.218
Cobalt	7.68	0.545	0.0545
Copper	9.25	0.545	0.218
Iron	25200	109	10.9
Lead	9.52	0.545	0.109
Magnesium	5130	10.9	5.45
Manganese	269	0.545	0.272
Molybdenum	0.387J	0.545	0.0545
Nickel	14.2	0.545	0.218
Potassium	2070	109	32.7
Selenium	ND	0.545	0.218
Silver	0.0598J	0.545	0.0545
Sodium	505	109	54.5
Strontium	50.1	0.545	0.272
Thallium	0.274J	0.436	0.0545
Tin	ND	10.9	5.45
Titanium	817	1.09	0.545
Vanadium	47.1	0.545	0.0545
Zinc	47.4	5.45	1.63
Lithium	23.7	2.18	1.09
Phosphorus	108	13.1	6.53
Zirconium	ND	5.45	2.72

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/10/12
Project     : SSFL PHASE 3                     Date Received: 05/10/12
SDG NO.    : 12E082                            Date Extracted: 05/15/12 10:10
Sample ID:  SL-512-SA5C-SB-0.0-0.5           Date Analyzed: 05/17/12 20:45
Lab Samp ID: E082-10                          Dilution Factor: 0.971
Lab File ID: 98E09097                         Matrix          : SOIL
Ext Btch ID: IME019S                          % Moisture     : 9.0
Calib. Ref.: 98E09089                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13500	107	12.8
Antimony	0.220J	0.534	0.107
Arsenic	3.79	0.534	0.213
Barium	105	0.534	0.213
Beryllium	0.588	0.534	0.0534
Boron	3.39J	5.34	2.67
Cadmium	0.487J	0.534	0.0534
Calcium	4450	21.3	10.7
Chromium	17.6	0.534	0.213
Cobalt	6.07	0.534	0.0534
Copper	11.9	0.534	0.213
Iron	18200	107	10.7
Lead	12.2	0.534	0.107
Magnesium	3480	10.7	5.34
Manganese	258	0.534	0.267
Molybdenum	0.522J	0.534	0.0534
Nickel	11.2	0.534	0.213
Potassium	2530	107	32.0
Selenium	ND	0.534	0.213
Silver	0.619	0.534	0.0534
Sodium	82.0J	107	53.4
Strontium	25.5	0.534	0.267
Thallium	0.216J	0.427	0.0534
Tin	ND	10.7	5.34
Titanium	718	1.07	0.534
Vanadium	33.9	0.534	0.0534
Zinc	69.8	5.34	1.60
Lithium	13.1	2.13	1.07
Phosphorus	217	12.8	6.40
Zirconium	ND	5.34	2.67

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/10/12
Project     : SSFL PHASE 3                     Date Received: 05/10/12
SDG NO.    : 12E082                           Date Extracted: 05/15/12 10:10
Sample ID:  SL-512-SA5C-SB-6.0-7.0           Date Analyzed: 05/17/12 20:54
Lab Samp ID: E082-11                          Dilution Factor: 0.995
Lab File ID: 98E09099                         Matrix          : SOIL
Ext Btch ID: IME019S                          % Moisture     : 13.0
Calib. Ref.: 98E09089                         Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10400	114	13.7
Antimony	0.135J	0.572	0.114
Arsenic	2.29	0.572	0.229
Barium	73.5	0.572	0.229
Beryllium	0.561J	0.572	0.0572
Boron	ND	5.72	2.86
Cadmium	0.584	0.572	0.0572
Calcium	89000	22.9	11.4
Chromium	15.5	0.572	0.229
Cobalt	4.28	0.572	0.0572
Copper	6.74	0.572	0.229
Iron	16400	114	11.4
Lead	5.24	0.572	0.114
Magnesium	3710	11.4	5.72
Manganese	230	0.572	0.286
Molybdenum	0.181J	0.572	0.0572
Nickel	8.46	0.572	0.229
Potassium	1770	114	34.3
Selenium	ND	0.572	0.229
Silver	1.21	0.572	0.0572
Sodium	100J	114	57.2
Strontium	106	0.572	0.286
Thallium	0.169J	0.457	0.0572
Tin	ND	11.4	5.72
Titanium	554	1.14	0.572
Vanadium	23.0	0.572	0.0572
Zinc	34.9	5.72	1.72
Lithium	14.3	2.29	1.14
Phosphorus	282	13.7	6.86
Zirconium	ND	5.72	2.86

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 05/15/12
SDG NO.    : 12E082                           Date Extracted: 05/15/12 10:10
Sample ID  : MBLK1S                            Date Analyzed: 05/17/12 20:18
Lab Samp ID: IME019SB                         Dilution Factor: 1
Lab File ID: 98E09091                        Matrix          : SOIL
Ext Btch ID: IME019S                          % Moisture     : NA
Calib. Ref.: 98E09089                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E082  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME019SB IME019SL IME019SC  
LAB FILE ID: 98E09091 98E09092 98E09093  
DATIME EXTRACTD: 05/15/1210:10 05/15/1210:10 05/15/1210:10 DATE COLLECTED: NA  
DATIME ANALYZD: 05/17/1220:18 05/17/1220:23 05/17/1220:27 DATE RECEIVED: 05/15/12  
PREP. BATCH: IME019S IME019S IME019S  
CALIB. REF: 98E09089 98E09089 98E09089

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2460	98	2500	2430	97	1	80-120	20
Antimony	ND	25.0	24.0	96	25.0	23.8	95	1	80-120	20
Arsenic	ND	25.0	23.3	93	25.0	23.6	94	1	80-120	20
Barium	ND	25.0	24.0	96	25.0	23.9	96	1	80-120	20
Beryllium	ND	25.0	23.5	94	25.0	23.1	92	2	80-120	20
Boron	ND	25.0	24.1	96	25.0	24.1	96	0	80-120	20
Cadmium	ND	25.0	23.5	94	25.0	23.3	93	1	80-120	20
Calcium	ND	2500	2580	103	2500	2540	102	2	80-120	20
Chromium	ND	25.0	23.3	93	25.0	22.9	92	1	80-120	20
Cobalt	ND	25.0	23.6	95	25.0	23.6	94	0	80-120	20
Copper	ND	25.0	22.6	90	25.0	22.3	89	1	80-120	20
Iron	ND	2500	2480	99	2500	2470	99	0	80-120	20
Lead	ND	25.0	24.1	96	25.0	23.9	96	1	80-120	20
Magnesium	ND	2500	2450	98	2500	2430	97	1	80-120	20
Manganese	ND	25.0	23.5	94	25.0	23.5	94	0	80-120	20
Molybdenum	ND	25.0	23.9	96	25.0	23.6	94	1	80-120	20
Nickel	ND	25.0	22.6	90	25.0	22.2	89	2	80-120	20
Potassium	ND	2500	2630	105	2500	2610	104	1	80-120	20
Selenium	ND	25.0	22.5	90	25.0	22.4	90	0	80-120	20
Silver	ND	25.0	24.3	97	25.0	24.2	97	0	80-120	20
Sodium	ND	2500	2490	100	2500	2470	99	1	80-120	20
Strontium	ND	25.0	24.2	97	25.0	23.9	96	1	80-120	20
Thallium	ND	25.0	23.8	95	25.0	24.0	96	1	80-120	20
Tin	ND	25.0	26.1	105	25.0	26.1	104	0	80-120	20
Titanium	ND	25.0	24.1	96	25.0	23.8	95	1	80-120	20
Vanadium	ND	25.0	23.5	94	25.0	23.2	93	1	80-120	20
Zinc	ND	50.0	46.2	92	50.0	46.5	93	1	80-120	20
Lithium	ND	25.0	24.3	97	25.0	24.4	97	0	80-120	20
Phosphorus	ND	250	235	94	250	234	93	0	80-120	20
Zirconium	ND	25.0	23.6	94	25.0	23.6	94	0	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E082  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 9.0  
DILTN FACTR: 0.971 0.980 0.966  
SAMPLE ID: SL-512-SA5C-SB-0.0-0.5  
CONTROL NO.: E082-10 E082-10M E082-10S  
LAB FILE ID: 98E09097 98E09094 98E09095  
DATIME EXTRACTD: 05/15/1210:10 05/15/1210:10 05/15/1210:10 DATE COLLECTED: 05/10/12  
DATIME ANALYZD: 05/17/1220:45 05/17/1220:32 05/17/1220:36 DATE RECEIVED: 05/10/12  
PREP. BATCH: IME019S IME019S IME019S  
CALIB. REF: 98E09089 98E09089 98E09089

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	13500	2690	17300	140*	2650	16600	114	4	75-125	20
Antimony	0.220J	26.9	17.8	65*	26.5	17.1	64*	3	75-125	20
Arsenic	3.79	26.9	28.2	91	26.5	27.7	90	2	75-125	20
Barium	105	26.9	148	161*	26.5	132	100	12	75-125	20
Beryllium	0.588	26.9	25.9	94	26.5	25.9	95	0	75-125	20
Boron	3.39J	26.9	27.6	90	26.5	27.3	90	1	75-125	20
Cadmium	0.487J	26.9	26.0	95	26.5	24.6	91	6	75-125	20
Calcium	4450	2690	9130	174*	2650	9980	208*	9	75-125	20
Chromium	17.6	26.9	41.7	89	26.5	43.0	95	3	75-125	20
Cobalt	6.07	26.9	35.4	109	26.5	28.5	85	22*	75-125	20
Copper	11.9	26.9	31.1	71*	26.5	30.8	71*	1	75-125	20
Iron	18200	2690	21700	132*	2650	20700	96	5	75-125	20
Lead	12.2	26.9	41.9	110	26.5	46.1	128*	10	75-125	20
Magnesium	3480	2690	6400	108	2650	6030	96	6	75-125	20
Manganese	258	26.9	425	622*	26.5	257	-1*	49*	75-125	20
Molybdenum	0.522J	26.9	25.3	92	26.5	24.7	91	3	75-125	20
Nickel	11.2	26.9	44.6	124	26.5	33.8	85	28*	75-125	20
Potassium	2530	2690	5230	101	2650	5110	97	2	75-125	20
Selenium	ND	26.9	23.9	89	26.5	23.3	88	2	75-125	20
Silver	0.619	26.9	25.8	94	26.5	25.4	93	2	75-125	20
Sodium	82.0J	2690	2530	91	2650	2470	90	2	75-125	20
Strontium	25.5	26.9	55.1	110	26.5	54.2	108	2	75-125	20
Thallium	0.216J	26.9	25.3	93	26.5	24.9	93	2	75-125	20
Tin	ND	26.9	29.0	108	26.5	28.4	107	2	75-125	20
Titanium	718	26.9	761	161*	26.5	749	118	2	75-125	20
Vanadium	33.9	26.9	60.3	98	26.5	57.5	89	5	75-125	20
Zinc	69.8	53.8	125	102	53.1	118	91	6	75-125	20
Lithium	13.1	26.9	43.4	112	26.5	42.7	111	2	75-125	20
Phosphorus	217	269	518	112	265	502	107	3	75-125	20
Zirconium	ND	26.9	19.1	71*	26.5	18.0	68*	6	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E082  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 9.0  
DILTN FACTR: 0.971 0.971  
SAMPLE ID: SL-512-SA5C-SB-0.0-0.5  
CONTROL NO.: E082-10 E082-10A  
LAB FILE ID: 98E09097 98E09096  
DATIME EXTRACTD: 05/15/1210:10 05/15/1210:10 DATE COLLECTED: 05/10/12  
DATIME ANALYZD: 05/17/1220:45 05/17/1220:41 DATE RECEIVED: 05/10/12  
PREP. BATCH: IME019S IME019S  
CALIB. REF: 98E09089 98E09089

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	13500	2670	15900	88	75-125
Antimony	0.220J	26.7	26.5	98	75-125
Arsenic	3.79	26.7	28.3	92	75-125
Barium	105	26.7	130	94	75-125
Beryllium	0.588	26.7	26.0	95	75-125
Boron	3.39J	26.7	28.9	96	75-125
Cadmium	0.487J	26.7	25.5	94	75-125
Calcium	4450	2670	7060	98	75-125
Chromium	17.6	26.7	40.9	87	75-125
Cobalt	6.07	26.7	30.0	90	75-125
Copper	11.9	26.7	33.8	82	75-125
Iron	18200	2670	20200	73*	75-125
Lead	12.2	26.7	37.0	93	75-125
Magnesium	3480	2670	5960	93	75-125
Manganese	258	26.7	276	68*	75-125
Molybdenum	0.522J	26.7	26.7	98	75-125
Nickel	11.2	26.7	33.2	83	75-125
Potassium	2530	2670	5320	105	75-125
Selenium	ND	26.7	24.3	91	75-125
Silver	0.619	26.7	25.8	94	75-125
Sodium	82.0J	2670	2630	95	75-125
Strontium	25.5	26.7	50.5	94	75-125
Thallium	0.216J	26.7	25.4	94	75-125
Tin	ND	26.7	29.0	109	75-125
Titanium	718	26.7	734	62*	75-125
Vanadium	33.9	26.7	57.2	87	75-125
Zinc	69.8	53.4	115	84	75-125
Lithium	13.1	26.7	40.1	101	75-125
Phosphorus	217	267	488	101	75-125
Zirconium	ND	26.7	25.7	96	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E082  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 9.0  
 DILUTION FACTOR: 0.971 4.85  
 SAMPLE ID: SL-512-SA5C-SB SL-512-SA5C-SB  
 EMAX SAMP ID: E082-10 E082-10J  
 LAB FILE ID: 98E09097 98E09098  
 DATE EXTRACTED: 05/15/1210:10 05/15/1210:10 DATE COLLECTED: 05/10/12  
 DATE ANALYZED: 05/17/1220:45 05/17/1220:50 DATE RECEIVED: 05/10/12  
 PREP. BATCH: IME019S IME019S  
 CALIB. REF: 98E09089 98E09089

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	13500	14100	4	10
Antimony	0.220J	ND	NA	10
Arsenic	3.79	3.97	5	10
Barium	105	100	4	10
Beryllium	0.588	0.657J	NA	10
Boron	3.39J	ND	NA	10
Cadmium	0.487J	0.488J	NA	10
Calcium	4450	4670	5	10
Chromium	17.6	18.3	4	10
Cobalt	6.07	6.42	6	10
Copper	11.9	13.0	9	10
Iron	18200	19200	5	10
Lead	12.2	12.4	1	10
Magnesium	3480	3660	5	10
Manganese	258	275	7	10
Molybdenum	0.522J	0.512J	NA	10
Nickel	11.2	12.0	7	10
Potassium	2530	2590	2	10
Selenium	ND	ND	0	10
Silver	0.619	0.611J	NA	10
Sodium	82.0J	ND	NA	10
Strontium	25.5	24.7	3	10
Thallium	0.216J	ND	NA	10
Tin	ND	ND	0	10
Titanium	718	724	1	10
Vanadium	33.9	35.1	4	10
Zinc	69.8	72.8	4	10
Lithium	13.1	13.0	1	10
Phosphorus	217	229	6	10
Zirconium	ND	ND	0	10

METHOD 7470A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E082  
=====

Matrix : WATER  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGE013WB	ND	1	NA	0.000500	0.000100	05/15/1217:07	05/15/1212:30	M47E012010	M47E012008	HGE013W	NA	05/15/12
LCS1W	HGE013WL	0.00517	1	NA	0.000500	0.000100	05/15/1217:09	05/15/1212:30	M47E012011	M47E012008	HGE013W	NA	05/15/12
LCD1W	HGE013WC	0.00518	1	NA	0.000500	0.000100	05/15/1217:11	05/15/1212:30	M47E012012	M47E012008	HGE013W	NA	05/15/12
EB-051012	E082-01	ND	1	NA	0.000500	0.000100	05/15/1217:33	05/15/1212:30	M47E012022	M47E012020	HGE013W	05/10/12	05/10/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E082  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGE013WB HGE013WL HGE013WC  
LAB FILE ID: M47E012010 M47E012011 M47E012012  
DATIME EXTRCTD: 05/15/1212:30 05/15/1212:30 05/15/1212:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/15/1217:07 05/15/1217:09 05/15/1217:11 DATE RECEIVED: 05/15/12  
PREP. BATCH: HGE013W HGE013W HGE013W  
CALIB. REF: M47E012008 M47E012008 M47E012008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00517	103	.005	.00518	104	0	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E082

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE016SB	ND	1	NA	0.100	0.0500	05/17/1215:52	05/17/1211:30	M47E014046	M47E014044	HGE016S	NA	05/17/12
LCS1S	HGE016SL	0.863	1	NA	0.100	0.0500	05/17/1215:54	05/17/1211:30	M47E014047	M47E014044	HGE016S	NA	05/17/12
LCD1S	HGE016SC	0.863	1	NA	0.100	0.0500	05/17/1215:56	05/17/1211:30	M47E014048	M47E014044	HGE016S	NA	05/17/12
SL-512-SA5C-SB-0.0-0.5AS	E082-10A	0.988	0.993	9.0	0.109	0.0546	05/17/1215:58	05/17/1211:30	M47E014049	M47E014044	HGE016S	05/10/12	05/10/12
SL-512-SA5C-SB-0.0-0.5	E082-10	ND	0.993	9.0	0.109	0.0546	05/17/1216:00	05/17/1211:30	M47E014050	M47E014044	HGE016S	05/10/12	05/10/12
SL-512-SA5C-SB-0.0-0.5DL	E082-10J	ND	4.97	9.0	0.546	0.273	05/17/1216:03	05/17/1211:30	M47E014051	M47E014044	HGE016S	05/10/12	05/10/12
SL-512-SA5C-SB-0.0-0.5MS	E082-10M	0.988	0.993	9.0	0.109	0.0546	05/17/1216:06	05/17/1211:30	M47E014052	M47E014044	HGE016S	05/10/12	05/10/12
SL-512-SA5C-SB-0.0-0.5MSDE	E082-10S	0.994	0.998	9.0	0.110	0.0548	05/17/1216:08	05/17/1211:30	M47E014053	M47E014044	HGE016S	05/10/12	05/10/12
SL-529-SA5C-SB-4.0-5.0	E082-02	ND	0.990	8.6	0.108	0.0542	05/17/1216:10	05/17/1211:30	M47E014054	M47E014044	HGE016S	05/09/12	05/10/12
SL-512-SA5C-SB-4.0-5.0	E082-04	ND	0.995	13.6	0.115	0.0576	05/17/1216:12	05/17/1211:30	M47E014055	M47E014044	HGE016S	05/10/12	05/10/12
SL-812-SA5C-SB-0.0-0.5	E082-06	ND	0.992	9.5	0.110	0.0548	05/17/1216:19	05/17/1211:30	M47E014058	M47E014056	HGE016S	05/10/12	05/10/12
SL-513-SA5C-SB-4.0-5.0	E082-08	ND	0.998	11.3	0.113	0.0563	05/17/1216:21	05/17/1211:30	M47E014059	M47E014056	HGE016S	05/10/12	05/10/12
SL-512-SA5C-SB-6.0-7.0	E082-11	ND	0.998	13.0	0.115	0.0574	05/17/1216:23	05/17/1211:30	M47E014060	M47E014056	HGE016S	05/10/12	05/10/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E082  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE016SB HGE016SL HGE016SC  
LAB FILE ID: M47E014046 M47E014047 M47E014048  
DATIME EXTRCTD: 05/17/1211:30 05/17/1211:30 05/17/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/17/1215:52 05/17/1215:54 05/17/1215:56 DATE RECEIVED: 05/17/12  
PREP. BATCH: HGE016S HGE016S HGE016S  
CALIB. REF: M47E014044 M47E014044 M47E014044

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.863	104	.833	.863	104	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E082  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 9.0  
DILTN FACTR: 0.993 0.993 0.998  
SAMPLE ID: SL-512-SA5C-SB-0.0-0.5  
CONTROL NO.: E082-10 E082-10M E082-10S  
LAB FILE ID: M47E014050 M47E014052 M47E014053  
DATIME EXTRCTD: 05/17/1211:30 05/17/1211:30 05/17/1211:30 DATE COLLECTED: 05/10/12  
DATIME ANALYZD: 05/17/1216:00 05/17/1216:06 05/17/1216:08 DATE RECEIVED: 05/10/12  
PREP. BATCH: HGE016S HGE016S HGE016S  
CALIB. REF: M47E014044 M47E014044 M47E014044

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.909	.988	109	.914	.994	109	0	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E082  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 9.0  
DILTN FACTR: 0.993 0.993  
SAMPLE ID: SL-512-SA5C-SB-0.0-0.5  
CONTROL NO.: E082-10 E082-10A  
LAB FILE ID: M47E014050 M47E014049  
DATIME EXTRACTD: 05/17/1211:30 05/17/1211:30 DATE COLLECTED: 05/10/12  
DATIME ANALYZD: 05/17/1216:00 05/17/1215:58 DATE RECEIVED: 05/10/12  
PREP. BATCH: HGE016S HGE016S  
CALIB. REF: M47E014044 M47E014044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.909	.988	109	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E082  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	9.0
DILUTION FACTOR:	0.993	4.97		
SAMPLE ID:	SL-512-SA5C-SB-0.0-	SL-512-SA5C-SB-0.0-		
EMAX SAMP ID:	E082-10	E082-10J		
LAB FILE ID:	M47E014050	M47E014051		
DATE EXTRACTED:	05/17/1211:30	05/17/1211:30	DATE COLLECTED:	05/10/12
DATE ANALYZED:	05/17/1216:00	05/17/1216:03	DATE RECEIVED:	05/10/12
PREP. BATCH:	HGE016S	HGE016S		
CALIB. REF:	M47E014044	M47E014044		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E082  
=====

Matrix : WATER  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLE002WB	ND	1	NA	0.200	0.100	05/16/1211:15	NA	NE16004	NE16003	PLE002W	NA	NA
LCS1W	PLE002WL	0.926	1	NA	0.200	0.100	05/16/1211:29	NA	NE16005	NE16003	PLE002W	NA	NA
LCD1W	PLE002WC	1.08	1	NA	0.200	0.100	05/16/1211:46	NA	NE16006	NE16003	PLE002W	NA	NA
EB-051012	E082-01	ND	1	NA	0.200	0.100	05/16/1212:01	NA	NE16007	NE16003	PLE002W	05/10/1215:00	05/10/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLE002WB PLE002WL PLE002WC  
LAB FILE ID: NE16004 NE16005 NE16006  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/16/1211:15 05/16/1211:29 05/16/1211:46 DATE RECEIVED: NA  
PREP. BATCH: PLE002W PLE002W PLE002W  
CALIB. REF: NE16003 NE16003 NE16003

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	0.926	93	1.00	1.08	108	15	85-115	20

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E082  
 =====

Matrix : SOIL  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLE002SB	ND	1	NA	5.00	2.50	05/16/1212:17	05/16/1209:29	NE16008	NE16003	PLE002S	NA	05/16/12
LCS1S	PLE002SL	24.8	1	NA	5.00	2.50	05/16/1212:31	05/16/1209:29	NE16009	NE16003	PLE002S	NA	05/16/12
LCD1S	PLE002SC	27.4	1	NA	5.00	2.50	05/16/1212:46	05/16/1209:29	NE16010	NE16003	PLE002S	NA	05/16/12
SL-512-SA5C-SB-4.0-5.0	E082-04	ND	1	13.6	5.79	2.89	05/16/1213:37	05/16/1209:29	NE16013	NE16003	PLE002S	05/10/1210:30	05/10/12
SL-812-SA5C-SB-0.0-0.5	E082-06	ND	1	9.5	5.52	2.76	05/16/1214:05	05/16/1209:29	NE16015	NE16014	PLE002S	05/10/1211:40	05/10/12
SL-513-SA5C-SB-4.0-5.0	E082-08	ND	1	11.3	5.64	2.82	05/16/1214:19	05/16/1209:29	NE16016	NE16014	PLE002S	05/10/1215:00	05/10/12
SL-512-SA5C-SB-0.0-0.5	E082-10	ND	1	9.0	5.49	2.75	05/16/1214:34	05/16/1209:29	NE16017	NE16014	PLE002S	05/10/1210:00	05/10/12
SL-512-SA5C-SB-0.0-0.5MS	E082-10M	26.6	1	9.0	5.49	2.75	05/16/1214:48	05/16/1209:29	NE16018	NE16014	PLE002S	05/10/1210:00	05/10/12
SL-512-SA5C-SB-0.0-0.5MSDE	E082-10S	29.9	1	9.0	5.49	2.75	05/16/1215:02	05/16/1209:29	NE16019	NE16014	PLE002S	05/10/1210:00	05/10/12
SL-512-SA5C-SB-6.0-7.0	E082-11	ND	1	13.0	5.75	2.87	05/16/1215:16	05/16/1209:29	NE16020	NE16014	PLE002S	05/10/1214:05	05/10/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLE002SB PLE002SL PLE002SC  
LAB FILE ID: NE16008 NE16009 NE16010  
DATE EXTRACTED: 05/16/1209:29 05/16/1209:29 05/16/1209:29 DATE COLLECTED: NA  
DATE ANALYZED: 05/16/1212:17 05/16/1212:31 05/16/1212:46 DATE RECEIVED: 05/16/12  
PREP. BATCH: PLE002S PLE002S PLE002S  
CALIB. REF: NE16003 NE16003 NE16003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	24.8	99	25.0	27.4	110	10	85-115	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: 9.0  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-512-SA5C-SB-0.0-0.5  
LAB SAMP ID: E082-10 E082-10M E082-10S  
LAB FILE ID: NE16017 NE16018 NE16019  
DATE EXTRACTED: 05/16/1209:29 05/16/1209:29 05/16/1209:29 DATE COLLECTED: 05/10/12 10:00  
DATE ANALYZED: 05/16/1214:34 05/16/1214:48 05/16/1215:02 DATE RECEIVED: 05/10/12  
PREP. BATCH: PLE002S PLE002S PLE002S  
CALIB. REF: NE16014 NE16014 NE16014

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	27.5	26.6	97	27.5	29.9	109	12	80-120	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E082  
 =====

Matrix : WATER  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCE023WB	ND	1	NA	0.200	0.100	05/10/1218:16	NA	IE10003	IE10001	HCE023W	NA	NA
MBLK1W	HCE023WQ	ND	1	NA	0.200	0.100	05/10/1219:49	NA	IE10010	IE10008	HCE023W	NA	NA
LCS1W	HCE023WL	1.79	1	NA	0.200	0.100	05/10/1218:57	NA	IE10006	IE10001	HCE023W	NA	NA
LCS1W	HCE023WX	1.92	1	NA	0.200	0.100	05/10/1219:08	NA	IE10007	IE10001	HCE023W	NA	NA
LCD1W	HCE023WC	1.82	1	NA	0.200	0.100	05/10/1220:00	NA	IE10011	IE10008	HCE023W	NA	NA
LCD1W	HCE023WY	2.06	1	NA	0.200	0.100	05/10/1220:10	NA	IE10012	IE10008	HCE023W	NA	NA
EB-051012	E082-01	ND	1	NA	0.200	0.100	05/10/1220:21	NA	IE10013	IE10008	HCE023W	05/10/1215:00	05/10/12
EB-051012	E082-01R	ND	1	NA	0.200	0.100	05/10/1220:31	NA	IE10014	IE10008	HCE023W	05/10/1215:00	05/10/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCE023WB HCE023WL HCE023WC  
LAB FILE ID: IE10003 IE10006 IE10011  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/10/1218:16 05/10/1218:57 05/10/1220:00 DATE RECEIVED: NA  
PREP. BATCH: HCE023W HCE023W HCE023W  
CALIB. REF: IE10001 IE10001 IE10008

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.79	90	2.00	1.82	91	1	80-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E082  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCE023WQ HCE023WX HCE023WY  
LAB FILE ID: IE10010 IE10007 IE10012  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/10/1219:49 05/10/1219:08 05/10/1220:10 DATE RECEIVED: NA  
PREP. BATCH: HCE023W HCE023W HCE023W  
CALIB. REF: IE10008 IE10001 IE10008

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.92	96	2.00	2.06	103	7	80-120	20

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E082  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB-051012	E082-01	5.52	1	NA	NA	NA	05/10/1218:38	NA	12PHE011W01	PHE011W	PHE011W	05/10/1215:00	05/10/12
EB-051012DUP	E082-01D	5.48	1	NA	NA	NA	05/10/1218:40	NA	12PHE011W02	PHE011W	PHE011W	05/10/1215:00	05/10/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.:	12E082	DATE RECEIVED:	05/10/12
SAMPLE ID:	EB-051012DUP	DATE EXTRACTED:	NA
CONTROL NO.:	E082-01D	DATE ANALYZED:	05/10/1218:40

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	5.52	5.48	0.04	0.10

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E082  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL	MDL	Analysis	Extraction		CAL REF	PREP BATCH	Collection	Received
			(pH Unit)	(pH Unit)	(pH Unit)		DATETIME	DATETIME	LFID			DATETIME	DATETIME
SL-529-SA5C-SB-4.0-5.0	E082-02	8.57	1	NA	NA	NA	05/11/1216:30	05/11/1215:29	12PHE012S01	PHE012S	PHE012S	05/09/1215:20	05/10/12
SL-512-SA5C-SB-4.0-5.0	E082-04	8.41	1	NA	NA	NA	05/11/1216:32	05/11/1215:29	12PHE012S02	PHE012S	PHE012S	05/10/1210:30	05/10/12
SL-812-SA5C-SB-0.0-0.5	E082-06	8.17	1	NA	NA	NA	05/11/1216:33	05/11/1215:29	12PHE012S03	PHE012S	PHE012S	05/10/1211:40	05/10/12
SL-513-SA5C-SB-4.0-5.0	E082-08	7.84	1	NA	NA	NA	05/11/1216:34	05/11/1215:29	12PHE012S04	PHE012S	PHE012S	05/10/1215:00	05/10/12
SL-512-SA5C-SB-0.0-0.5	E082-10	8.20	1	NA	NA	NA	05/11/1216:36	05/11/1215:29	12PHE012S05	PHE012S	PHE012S	05/10/1210:00	05/10/12
SL-512-SA5C-SB-0.0-0.5	DUPE082-10D	8.21	1	NA	NA	NA	05/11/1216:37	05/11/1215:29	12PHE012S06	PHE012S	PHE012S	05/10/1210:00	05/10/12
SL-512-SA5C-SB-6.0-7.0	E082-11	8.28	1	NA	NA	NA	05/11/1216:38	05/11/1215:29	12PHE012S07	PHE012S	PHE012S	05/10/1214:05	05/10/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E082	DATE RECEIVED:	05/10/12
SAMPLE ID:	SL-512-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	05/11/1215:29
CONTROL NO.:	E082-10D	DATE ANALYZED:	05/11/1216:37

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.20	8.21	-0.01	0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/14/12
Project      : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.    : 12E098                           Date Extracted: 05/18/12 15:20
Sample ID    : SL-513-SA5C-SB-9.0-10.0         Date Analyzed: 05/18/12 19:35
Lab Samp ID  : E098-01                           Dilution Factor: 1
Lab File ID  : REJ459                             Matrix          : SOIL
Ext Btch ID  : SVE036S                           % Moisture     : 12.1
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	315	379.2	83.0	40-130
2-FLUOROBIPHENYL	277	379.2	73.0	45-130
TERPHENYL-D14	304	379.2	80.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/14/12
Project      : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.    : 12E098                           Date Extracted: 05/18/12 15:20
Sample ID:   SL-514-SA5C-SB-4.0-5.0           Date Analyzed: 05/18/12 19:54
Lab Samp ID: E098-03                           Dilution Factor: 1
Lab File ID: REJ460                             Matrix          : SOIL
Ext Btch ID: SVE036S                            % Moisture     : 6.6
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	282	356.9	79.0	40-130
2-FLUOROBIPHENYL	270	356.9	75.6	45-130
TERPHENYL-D14	301	356.9	84.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/14/12
Project      : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.    : 12E098                           Date Extracted: 05/18/12 15:20
Sample ID:   SL-514-SA5C-SB-9.0-10.0           Date Analyzed: 05/18/12 20:13
Lab Samp ID: E098-05                           Dilution Factor: 1
Lab File ID: REJ461                             Matrix          : SOIL
Ext Btch ID: SVE036S                            % Moisture     : 6.7
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	244	357.2	68.4	40-130
2-FLUOROBIPHENYL	233	357.2	65.2	45-130
TERPHENYL-D14	336	357.2	94.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/18/12
Batch No.    : 12E098                             Date Extracted: 05/18/12 15:20
Sample ID    : MBLK1S                             Date Analyzed: 05/18/12 17:42
Lab Samp ID  : SVE036SB                           Dilution Factor: 1
Lab File ID  : REJ453                              Matrix          : SOIL
Ext Btch ID  : SVE036S                             % Moisture     : NA
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	285	333.3	85.6	40-130
2-FLUOROBIPHENYL	282	333.3	84.7	45-130
TERPHENYL-D14	305	333.3	91.6	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E098  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE036SB SVE036SL SVE036SC  
LAB FILE ID: REJ453 REJ454 REJ455  
DATE EXTRACTED: 05/18/1215:20 05/18/1215:20 05/18/1215:20 DATE COLLECTED: NA  
DATE ANALYZED: 05/18/1217:42 05/18/1218:01 05/18/1218:20 DATE RECEIVED: 05/18/12  
PREP. BATCH: SVE036S SVE036S SVE036S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	322	97	333	319	96	1	10-130	50
Acenaphthylene	ND	333	366	110	333	362	109	1	20-130	50
Anthracene	ND	333	293	88	333	277	83	6	20-130	50
Benzo (a) anthracene	ND	333	332	100	333	304	91	9	30-130	50
Benzo (a) pyrene	ND	333	363	109	333	343	103	6	30-130	50
Benzo (b) fluoranthene	ND	333	399	120	333	384	115	4	40-130	50
Benzo (k) fluoranthene	ND	333	348	105	333	331	99	5	30-140	50
Benzo (g, h, i) perylene	ND	333	386	116	333	363	109	6	30-140	50
Chrysene	ND	333	313	94	333	286	86	9	30-140	50
Dibenzo (a, h) anthracene	ND	333	394	118	333	368	111	7	40-140	50
Fluoranthene	ND	333	339	102	333	312	94	8	30-130	50
Fluorene	ND	333	359	108	333	356	107	1	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	394	118	333	370	111	6	20-160	50
Naphthalene	ND	333	292	87	333	281	84	4	10-130	50
Phenanthrene	ND	333	295	88	333	282	84	5	20-130	50
2-Methylnaphthalene	ND	333	324	97	333	317	95	2	30-150	50
1-Methylnaphthalene	ND	333	323	97	333	317	95	2	30-150	50
N-Nitrosodimethylamine	ND	333	293	88	333	283	85	4	30-150	50
Pyrene	ND	333	325	97	333	297	89	9	20-150	50
Azobenzene	ND	333	268	80	333	264	79	1	30-150	50
Benzo (e) pyrene	ND	333	338	101	333	338	101	0	30-150	50
Biphenyl	ND	333	289	87	333	302	91	4	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	305	91	333	295	88	40-130
2-Fluorobiphenyl	333	295	88	333	289	87	45-130
Terphenyl-d14	333	340	102	333	307	92	45-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/14/12
Project      : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.    : 12E098                           Date Extracted: 05/16/12 03:16
Sample ID:   SL-513-SA5C-SB-10.0                Date Analyzed: 05/16/12 03:16
Lab Samp ID: E098-02                             Dilution Factor: 0.86
Lab File ID: EE14060A                            Matrix          : SOIL
Ext Btch ID: GME011S                             % Moisture     : 13.1
Calib. Ref.: EE14055A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.99	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.70	1.979	85.8 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/15/12 12:28

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/14/12
Project      : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.    : 12E098                           Date Extracted: 05/16/12 03:58
Sample ID:   SL-514-SA5C-SB-5.0                 Date Analyzed: 05/16/12 03:58
Lab Samp ID: E098-04                             Dilution Factor: 0.9
Lab File ID: EE14061A                            Matrix          : SOIL
Ext Btch ID: GME011S                             % Moisture     : 10.0
Calib. Ref.: EE14055A                            Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.69	2.000	84.6 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/15/12 12:28

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/14/12
Project     : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.   : 12E098                           Date Extracted: 05/16/12 04:40
Sample ID:  SL-514-SA5C-SB-10.0               Date Analyzed: 05/16/12 04:40
Lab Samp ID: E098-06                           Dilution Factor: 0.87
Lab File ID: EE14062A                           Matrix          : SOIL
Ext Btch ID: GME011S                            % Moisture     : 8.6
Calib. Ref.: EE14055A                           Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.95	0.48
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.72	1.904	90.5 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/15/12 12:28

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/15/12
Batch No.    : 12E098                           Date Extracted: 05/15/12 21:40
Sample ID    : MBLK1S                            Date Analyzed: 05/15/12 21:40
Lab Samp ID  : GME011SB                         Dilution Factor: 1
Lab File ID  : EE14052A                         Matrix          : SOIL
Ext Btch ID  : GME011S                           % Moisture      : NA
Calib. Ref.  : EE14044A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.91	2.000	95.5 60-130

RL : Reporting Limit  
 Methanol Extraction: 05/15/12 12:28

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E098  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GME011SB GME011SL GME011SC  
LAB FILE ID: EE14052A EE14053A EE14054A  
DATE EXTRACTED: 05/15/1221:40 05/15/1222:22 05/15/1223:04 DATE COLLECTED: NA  
DATE ANALYZED: 05/15/1221:40 05/15/1222:22 05/15/1223:04 DATE RECEIVED: 05/15/12  
PREP. BATCH: GME011S GME011S GME011S  
CALIB. REF: EE14044A EE14044A EE14044A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	24.4	98	25.0	22.4	90	9	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.19	110	2.00	2.09	105	60-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/14/12
Project      : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.    : 12E098                           Date Extracted: 05/15/12 19:34
Sample ID    : TB-051412                        Date Analyzed: 05/15/12 19:34
Lab Samp ID  : E098-07                          Dilution Factor: 1
Lab File ID  : EE14049A                         Matrix          : WATER
Ext Btch ID  : VG39E09                          % Moisture     : NA
Calib. Ref.  : EE14044A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)**	59	50	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	37.5	40.00	93.8	60-140

RL : Reporting Limit  
 \*\* : Discrete peak(s) only, not a gasoline pattern.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/15/12
Batch No.   : 12E098                           Date Extracted: 05/15/12 16:46
Sample ID   : MBLK1W                           Date Analyzed: 05/15/12 16:46
Lab Samp ID: VG39E09B                         Dilution Factor: 1
Lab File ID: EE14045A                         Matrix          : WATER
Ext Btch ID: VG39E09                          % Moisture     : NA
Calib. Ref.: EE14044A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	33.7	40.00	84.2 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E098  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39E09B VG39E09L VG39E09C  
LAB FILE ID: EE14045A EE14046A EE14047A  
DATE EXTRACTED: 05/15/1216:46 05/15/1217:28 05/15/1218:10 DATE COLLECTED: NA  
DATE ANALYZED: 05/15/1216:46 05/15/1217:28 05/15/1218:10 DATE RECEIVED: 05/15/12  
PREP. BATCH: VG39E09 VG39E09 VG39E09  
CALIB. REF: EE14044A EE14044A EE14044A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	471	94	500	518	104	9	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	39.5	99	40.0	42.1	105	60-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/14/12
Project      : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.    : 12E098                           Date Extracted: 05/17/12 14:02
Sample ID    : SL-513-SA5C-SB-9.0-10.0         Date Analyzed: 05/18/12 04:06
Lab Samp ID  : E098-01                          Dilution Factor: 1
Lab File ID  : LE17044A                         Matrix          : SOIL
Ext Btch ID  : DSE022S                          % Moisture     : 12.1
Calib. Ref.  : LE17042A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.2	113.8	67.9	50-150
HEXACOSANE	20.8	28.44	73.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/14/12
Project      : SSFL PHASE 3                       Date Received: 05/14/12
Batch No.    : 12E098                             Date Extracted: 05/17/12 14:02
Sample ID    : SL-514-SA5C-SB-4.0-5.0           Date Analyzed: 05/18/12 04:23
Lab Samp ID  : E098-03                           Dilution Factor: 1
Lab File ID  : LE17045A                          Matrix          : SOIL
Ext Btch ID  : DSE022S                           % Moisture     : 6.6
Calib. Ref. : LE17042A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.3	107.1	71.3	50-150
HEXACOSANE	20.9	26.77	78.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/14/12
Project      : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.    : 12E098                           Date Extracted: 05/17/12 14:02
Sample ID    : SL-514-SA5C-SB-9.0-10.0         Date Analyzed: 05/18/12 04:40
Lab Samp ID  : E098-05                           Dilution Factor: 1
Lab File ID  : LE17046A                         Matrix          : SOIL
Ext Btch ID  : DSE022S                          % Moisture     : 6.7
Calib. Ref.  : LE17042A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.7	107.2	66.9	50-150
HEXACOSANE	20.1	26.80	74.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/17/12
Batch No.    : 12E098                             Date Extracted: 05/17/12 14:02
Sample ID    : MBLK1S                             Date Analyzed: 05/18/12 00:43
Lab Samp ID  : DSE022SB                           Dilution Factor: 1
Lab File ID  : LE17032A                           Matrix          : SOIL
Ext Btch ID  : DSE022S                             % Moisture      : NA
Calib. Ref.  : LE17030A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.3	100.0	69.3	50-150
HEXACOSANE	18.9	25.00	75.7	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E098  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE022SB DSE022SL DSE022SC  
LAB FILE ID: LE17032A LE17033A LE17034A  
DATE EXTRACTED: 05/17/1214:02 05/17/1214:02 05/17/1214:02 DATE COLLECTED: NA  
DATE ANALYZED: 05/18/1200:43 05/18/1201:00 05/18/1201:17 DATE RECEIVED: 05/17/12  
PREP. BATCH: DSE022S DSE022S DSE022S  
CALIB. REF: LE17030A LE17030A LE17030A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	472	94	500	473	95	0	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	72.4	72	100	72.0	72	50-150
Hexacosane	25.0	19.1	77	25.0	18.7	75	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/14/12
Project    : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.  : 12E098                           Date Extracted: 05/21/12 14:39
Sample ID: SL-513-SA5C-SB-9.0-10.0          Date Analyzed: 05/23/12 09:31
Lab Samp ID: E098-01                         Dilution Factor: 1
Lab File ID: SE22047A                       Matrix          : SOIL
Ext Btch ID: CPE027S                        % Moisture     : 12.1
Calib. Ref.: SE22044A                       Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.12)   18.45	15.16	(106)   122*	45-120
TETRACHLORO-M-XYLENE	15.06   (15.56)	15.16	99.3   (103)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/14/12
Project      : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.    : 12E098                           Date Extracted: 05/21/12 14:39
Sample ID    : SL-514-SA5C-SB-4.0-5.0          Date Analyzed: 05/23/12 10:06
Lab Samp ID  : E098-03                          Dilution Factor: 1
Lab File ID  : SE22048A                         Matrix          : SOIL
Ext Btch ID  : CPE027S                          % Moisture     : 6.6
Calib. Ref.  : SE22044A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.57)   17.38	14.27	(109)   122*	45-120
TETRACHLORO-M-XYLENE	14.31   (14.73)	14.27	100   (103)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/14/12
Project      : SSFL PHASE 3                     Date Received: 05/14/12
Batch No.    : 12E098                           Date Extracted: 05/21/12 14:39
Sample ID    : SL-514-SA5C-SB-9.0-10.0         Date Analyzed: 05/23/12 10:40
Lab Samp ID  : E098-05                         Dilution Factor: 1
Lab File ID  : SE22049A                       Matrix          : SOIL
Ext Btch ID  : CPE027S                        % Moisture     : 6.7
Calib. Ref.  : SE22044A                       Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	(15.12)   17.62	14.29	(106)   123*	45-120
TETRACHLORO-M-XYLENE	12.70   (13.22)	14.29	88.9   (92.5)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.   : 12E098                           Date Extracted: 05/21/12 14:39
Sample ID   : MBLK1S                           Date Analyzed: 05/22/12 17:12
Lab Samp ID : 60E027SB                         Dilution Factor: 1
Lab File ID : SE22018A                         Matrix          : SOIL
Ext Btch ID : CPE027S                          % Moisture     : NA
Calib. Ref. : SE22015A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.81)   17.17	13.33	(119)   129*	45-120
TETRACHLORO-M-XYLENE	14.81   (14.90)	13.33	111   (112)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E098  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E027SB 60E027SL 60E027SC  
LAB FILE ID: SE22018A SE22019A SE22020A  
DATE EXTRACTED: 05/21/1214:39 05/21/1214:39 05/21/1214:39 DATE COLLECTED: NA  
DATE ANALYZED: 05/22/1217:12 05/22/1217:47 05/22/1218:21 DATE RECEIVED: 05/21/12  
PREP. BATCH: CPE027S CPE027S CPE027S  
CALIB. REF: SE22015A SE22015A SE22015A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	184   (193)	110   (116)	167	180   (189)	108   (113)	2   (2)	50-130	50
Aroclor 1260	(ND)   ND	167	202   (212)	121   (127)	167	201   (211)	121   (127)	0   (0)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(109)   108	(131)   130	83.3	(104)   104	(125)   125	(5)   4	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(15.79)   16.80	(118)   126*	13.33	(15.79)   17.10	(118)   128*	45-120
Tetrachloro-m-xylene	13.33	14.51   (15.07)	109   (113)	13.33	14.35   (14.58)	108   (109)	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/14/12
Project     : SSFL PHASE 3                     Date Received: 05/14/12
SDG NO.    : 12E098                           Date Extracted: 05/18/12 11:50
Sample ID:  SL-513-SA5C-SB-9.0-10.0          Date Analyzed: 05/21/12 15:18
Lab Samp ID: E098-01                          Dilution Factor: 0.980
Lab File ID: 98E10071                         Matrix          : SOIL
Ext Btch ID: IME026S                          % Moisture     : 12.1
Calib. Ref.: 98E10061                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16500	111	13.4
Antimony	0.202J	0.557	0.111
Arsenic	5.42	0.557	0.223
Barium	76.1	0.557	0.223
Beryllium	0.755	0.557	0.0557
Boron	ND	5.57	2.79
Cadmium	0.303J	0.557	0.0557
Calcium	9000	22.3	11.1
Chromium	22.3	0.557	0.223
Cobalt	7.42	0.557	0.0557
Copper	9.78	0.557	0.223
Iron	24000	111	11.1
Lead	7.12	0.557	0.111
Magnesium	4960	11.1	5.57
Manganese	279	0.557	0.279
Molybdenum	0.271J	0.557	0.0557
Nickel	15.4	0.557	0.223
Potassium	3030	111	33.4
Selenium	ND	0.557	0.223
Silver	ND	0.557	0.0557
Sodium	462	111	55.7
Strontium	41.7	0.557	0.279
Thallium	0.283J	0.446	0.0557
Tin	ND	11.1	5.57
Titanium	911	1.11	0.557
Vanadium	39.8	0.557	0.0557
Zinc	53.8	5.57	1.67
Lithium	22.8	2.23	1.11
Phosphorus	220	13.4	6.69
Zirconium	3.46J	5.57	2.79

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/14/12
Project    : SSFL PHASE 3                     Date Received: 05/14/12
SDG NO.    : 12E098                           Date Extracted: 05/18/12 11:50
Sample ID: SL-514-SA5C-SB-4.0-5.0           Date Analyzed: 05/21/12 15:55
Lab Samp ID: E098-03                         Dilution Factor: 0.995
Lab File ID: 98E10079                       Matrix          : SOIL
Ext Btch ID: IME026S                        % Moisture     : 6.6
Calib. Ref.: 98E10073                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11800	107	12.8
Antimony	0.200J	0.533	0.107
Arsenic	5.79	0.533	0.213
Barium	96.4	0.533	0.213
Beryllium	0.624	0.533	0.0533
Boron	ND	5.33	2.66
Cadmium	0.157J	0.533	0.0533
Calcium	4150	21.3	10.7
Chromium	15.7	0.533	0.213
Cobalt	4.97	0.533	0.0533
Copper	6.60	0.533	0.213
Iron	16900	107	10.7
Lead	4.96	0.533	0.107
Magnesium	3050	10.7	5.33
Manganese	284	0.533	0.266
Molybdenum	0.303J	0.533	0.0533
Nickel	8.98	0.533	0.213
Potassium	1650	107	32.0
Selenium	ND	0.533	0.213
Silver	ND	0.533	0.0533
Sodium	204	107	53.3
Strontium	24.0	0.533	0.266
Thallium	0.169J	0.426	0.0533
Tin	ND	10.7	5.33
Titanium	626	1.07	0.533
Vanadium	30.3	0.533	0.0533
Zinc	32.0	5.33	1.60
Lithium	15.8	2.13	1.07
Phosphorus	93.7	12.8	6.39
Zirconium	ND	5.33	2.66

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/14/12
Project      : SSFL PHASE 3                     Date Received: 05/14/12
SDG NO.     : 12E098                            Date Extracted: 05/18/12 11:50
Sample ID   : SL-514-SA5C-SB-9.0-10.0         Date Analyzed: 05/21/12 15:09
Lab Samp ID : E098-05                          Dilution Factor: 0.957
Lab File ID : 98E10069                        Matrix          : SOIL
Ext Btch ID : IME026S                        % Moisture     : 6.7
Calib. Ref. : 98E10061                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8620	103	12.3
Antimony	0.190J	0.513	0.103
Arsenic	5.06	0.513	0.205
Barium	58.0	0.513	0.205
Beryllium	0.432J	0.513	0.0513
Boron	ND	5.13	2.56
Cadmium	0.155J	0.513	0.0513
Calcium	3680	20.5	10.3
Chromium	13.3	0.513	0.205
Cobalt	3.57	0.513	0.0513
Copper	6.30	0.513	0.205
Iron	15300	103	10.3
Lead	3.97	0.513	0.103
Magnesium	2830	10.3	5.13
Manganese	196	0.513	0.256
Molybdenum	0.240J	0.513	0.0513
Nickel	8.28	0.513	0.205
Potassium	1490	103	30.8
Selenium	ND	0.513	0.205
Silver	ND	0.513	0.0513
Sodium	115	103	51.3
Strontium	20.7	0.513	0.256
Thallium	0.168J	0.410	0.0513
Tin	ND	10.3	5.13
Titanium	595	1.03	0.513
Vanadium	24.9	0.513	0.0513
Zinc	35.0	5.13	1.54
Lithium	15.3	2.05	1.03
Phosphorus	175	12.3	6.15
Zirconium	ND	5.13	2.56

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/18/12
SDG NO.     : 12E098                           Date Extracted: 05/18/12 11:50
Sample ID   : MBLK1S                           Date Analyzed: 05/21/12 14:42
Lab Samp ID : IME026SB                         Dilution Factor: 1
Lab File ID : 98E10063                        Matrix          : SOIL
Ext Btch ID : IME026S                          % Moisture     : NA
Calib. Ref. : 98E10061                        Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E098  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME026SB IME026SL IME026SC  
LAB FILE ID: 98E10063 98E10064 98E10065  
DATIME EXTRACTD: 05/18/1211:50 05/18/1211:50 05/18/1211:50 DATE COLLECTED: NA  
DATIME ANALYZD: 05/21/1214:42 05/21/1214:46 05/21/1214:51 DATE RECEIVED: 05/18/12  
PREP. BATCH: IME026S IME026S IME026S  
CALIB. REF: 98E10061 98E10061 98E10061

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2540	102	2500	2520	101	1	80-120	20
Antimony	ND	25.0	25.4	102	25.0	24.8	99	3	80-120	20
Arsenic	ND	25.0	24.5	98	25.0	24.3	97	1	80-120	20
Barium	ND	25.0	25.9	104	25.0	25.0	100	3	80-120	20
Beryllium	ND	25.0	25.3	101	25.0	24.8	99	2	80-120	20
Boron	ND	25.0	25.7	103	25.0	25.5	102	1	80-120	20
Cadmium	ND	25.0	24.9	100	25.0	24.0	96	4	80-120	20
Calcium	ND	2500	2720	109	2500	2650	106	3	80-120	20
Chromium	ND	25.0	25.0	100	25.0	24.3	97	3	80-120	20
Cobalt	ND	25.0	25.5	102	25.0	25.4	101	0	80-120	20
Copper	ND	25.0	24.4	97	25.0	23.7	95	3	80-120	20
Iron	ND	2500	2620	105	2500	2620	105	0	80-120	20
Lead	ND	25.0	25.2	101	25.0	24.5	98	3	80-120	20
Magnesium	ND	2500	2550	102	2500	2530	101	1	80-120	20
Manganese	ND	25.0	25.7	103	25.0	25.6	103	0	80-120	20
Molybdenum	ND	25.0	25.2	101	25.0	24.4	98	3	80-120	20
Nickel	ND	25.0	24.4	98	25.0	23.7	95	3	80-120	20
Potassium	ND	2500	2770	111	2500	2710	108	2	80-120	20
Selenium	ND	25.0	24.2	97	25.0	23.6	94	3	80-120	20
Silver	ND	25.0	25.0	100	25.0	24.5	98	2	80-120	20
Sodium	ND	2500	2590	104	2500	2550	102	1	80-120	20
Strontium	ND	25.0	25.6	102	25.0	25.8	103	1	80-120	20
Thallium	ND	25.0	25.1	100	25.0	24.9	100	1	80-120	20
Tin	ND	25.0	28.0	112	25.0	27.7	111	1	80-120	20
Titanium	ND	25.0	25.8	103	25.0	25.4	102	1	80-120	20
Vanadium	ND	25.0	25.1	100	25.0	24.3	97	3	80-120	20
Zinc	ND	50.0	48.1	96	50.0	47.3	95	2	80-120	20
Lithium	ND	25.0	25.7	103	25.0	25.4	102	1	80-120	20
Phosphorus	ND	250	240	96	250	238	95	1	80-120	20
Zirconium	ND	25.0	25.2	101	25.0	25.4	102	1	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E098  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 6.7  
DILTN FACTR: 0.957 0.985 0.995  
SAMPLE ID: SL-514-SA5C-SB-9.0-10.0  
CONTROL NO.: E098-05 E098-05M E098-05S  
LAB FILE ID: 98E10069 98E10066 98E10067  
DATIME EXTRACTD: 05/18/1211:50 05/18/1211:50 05/18/1211:50 DATE COLLECTED: 05/14/12  
DATIME ANALYZD: 05/21/1215:09 05/21/1214:55 05/21/1215:00 DATE RECEIVED: 05/14/12  
PREP. BATCH: IME026S IME026S IME026S  
CALIB. REF: 98E10061 98E10061 98E10061

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	8620	2640	11400	104	2670	11300	102	0	75-125	20
Antimony	0.190J	26.4	22.1	83	26.7	21.8	81	1	75-125	20
Arsenic	5.06	26.4	29.3	92	26.7	28.9	89	2	75-125	20
Barium	58.0	26.4	88.8	117	26.7	80.1	83	10	75-125	20
Beryllium	0.432J	26.4	27.5	103	26.7	27.2	100	1	75-125	20
Boron	ND	26.4	27.3	103	26.7	26.7	100	2	75-125	20
Cadmium	0.155J	26.4	26.5	100	26.7	25.9	97	2	75-125	20
Calcium	3680	2640	5860	83	2670	5780	79	1	75-125	20
Chromium	13.3	26.4	38.9	97	26.7	38.7	95	1	75-125	20
Cobalt	3.57	26.4	29.4	98	26.7	27.5	90	7	75-125	20
Copper	6.30	26.4	29.9	89	26.7	29.2	86	2	75-125	20
Iron	15300	2640	16900	61*	2670	16900	57*	0	75-125	20
Lead	3.97	26.4	30.4	100	26.7	28.9	94	5	75-125	20
Magnesium	2830	2640	5230	91	2670	5220	90	0	75-125	20
Manganese	196	26.4	276	305*	26.7	156	-148*	56*	75-125	20
Molybdenum	0.240J	26.4	26.7	100	26.7	25.9	96	3	75-125	20
Nickel	8.28	26.4	32.6	92	26.7	30.9	85	5	75-125	20
Potassium	1490	2640	4280	106	2670	4270	104	0	75-125	20
Selenium	ND	26.4	25.4	96	26.7	24.7	93	3	75-125	20
Silver	ND	26.4	26.4	100	26.7	25.8	97	2	75-125	20
Sodium	115	2640	2670	97	2670	2630	94	2	75-125	20
Strontium	20.7	26.4	46.4	98	26.7	46.2	96	1	75-125	20
Thallium	0.168J	26.4	26.7	100	26.7	26.1	97	2	75-125	20
Tin	ND	26.4	30.8	117	26.7	30.0	113	3	75-125	20
Titanium	595	26.4	591	-14*	26.7	581	-53*	2	75-125	20
Vanadium	24.9	26.4	49.3	93	26.7	48.7	89	1	75-125	20
Zinc	35.0	52.8	81.3	88	53.3	81.7	88	1	75-125	20
Lithium	15.3	26.4	44.1	109	26.7	43.3	105	2	75-125	20
Phosphorus	175	264	437	99	267	441	100	1	75-125	20
Zirconium	ND	26.4	27.0	102	26.7	26.4	99	2	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E098  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 6.7  
DILTN FACTR: 0.957 0.957  
SAMPLE ID: SL-514-SA5C-SB-9.0-10.0  
CONTROL NO.: E098-05 E098-05A  
LAB FILE ID: 98E10069 98E10068  
DATIME EXTRACTD: 05/18/1211:50 05/18/1211:50 DATE COLLECTED: 05/14/12  
DATIME ANALYZD: 05/21/1215:09 05/21/1215:04 DATE RECEIVED: 05/14/12  
PREP. BATCH: IME026S IME026S  
CALIB. REF: 98E10061 98E10061

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	8620	2560	11200	99	75-125
Antimony	0.190J	25.6	25.8	100	75-125
Arsenic	5.06	25.6	28.9	93	75-125
Barium	58.0	25.6	85.6	108	75-125
Beryllium	0.432J	25.6	26.0	100	75-125
Boron	ND	25.6	26.8	105	75-125
Cadmium	0.155J	25.6	24.8	96	75-125
Calcium	3680	2560	6320	103	75-125
Chromium	13.3	25.6	36.8	91	75-125
Cobalt	3.57	25.6	27.2	92	75-125
Copper	6.30	25.6	28.6	87	75-125
Iron	15300	2560	17700	90	75-125
Lead	3.97	25.6	28.4	95	75-125
Magnesium	2830	2560	5320	97	75-125
Manganese	196	25.6	219	91	75-125
Molybdenum	0.240J	25.6	25.7	99	75-125
Nickel	8.28	25.6	30.8	88	75-125
Potassium	1490	2560	4290	109	75-125
Selenium	ND	25.6	23.9	93	75-125
Silver	ND	25.6	24.7	96	75-125
Sodium	115	2560	2580	96	75-125
Strontium	20.7	25.6	46.4	100	75-125
Thallium	0.168J	25.6	24.9	97	75-125
Tin	ND	25.6	28.8	112	75-125
Titanium	595	25.6	624	112	75-125
Vanadium	24.9	25.6	48.6	93	75-125
Zinc	35.0	51.3	81.1	90	75-125
Lithium	15.3	25.6	42.1	105	75-125
Phosphorus	175	256	435	101	75-125
Zirconium	ND	25.6	27.0	105	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E098  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 6.7  
 DILUTION FACTOR: 0.957 4.78  
 SAMPLE ID: SL-514-SA5C-SB SL-514-SA5C-SB  
 EMAX SAMP ID: E098-05 E098-05J  
 LAB FILE ID: 98E10069 98E10070  
 DATE EXTRACTED: 05/18/1211:50 05/18/1211:50 DATE COLLECTED: 05/14/12  
 DATE ANALYZED: 05/21/1215:09 05/21/1215:13 DATE RECEIVED: 05/14/12  
 PREP. BATCH: IME026S IME026S  
 CALIB. REF: 98E10061 98E10061

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	8620	8980	4	10
Antimony	0.190J	ND	NA	10
Arsenic	5.06	5.06	0	10
Barium	58.0	57.3	1	10
Beryllium	0.432J	0.460J	NA	10
Boron	ND	ND	0	10
Cadmium	0.155J	ND	NA	10
Calcium	3680	3870	5	10
Chromium	13.3	14.0	5	10
Cobalt	3.57	3.80	6	10
Copper	6.30	6.88	9	10
Iron	15300	16300	6	10
Lead	3.97	4.05	2	10
Magnesium	2830	2970	5	10
Manganese	196	210	7	10
Molybdenum	0.240J	ND	NA	10
Nickel	8.28	8.77	6	10
Potassium	1490	1560	5	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	115	ND	NA	10
Strontium	20.7	20.3	2	10
Thallium	0.168J	ND	NA	10
Tin	ND	ND	0	10
Titanium	595	600	1	10
Vanadium	24.9	25.9	4	10
Zinc	35.0	37.0	6	10
Lithium	15.3	14.9	2	10
Phosphorus	175	190	8	10
Zirconium	ND	ND	0	10

METHOD 7471A  
 MERCURY BY COLD VAPOR

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E098  
 =====

Matrix : SOIL  
 Instrument ID : TI047  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE015SB	ND	1	NA	0.100	0.0500	05/17/1214:33	05/17/1211:15	M47E014010	M47E014008	HGE015S	NA	05/17/12
LCS1S	HGE015SL	0.867	1	NA	0.100	0.0500	05/17/1214:35	05/17/1211:15	M47E014011	M47E014008	HGE015S	NA	05/17/12
LCD1S	HGE015SC	0.862	1	NA	0.100	0.0500	05/17/1214:37	05/17/1211:15	M47E014012	M47E014008	HGE015S	NA	05/17/12
SL-513-SA5C-SB-9.0-10.0	E098-01	ND	0.997	12.1	0.113	0.0567	05/17/1215:37	05/17/1211:15	M47E014040	M47E014032	HGE015S	05/14/12	05/14/12
SL-514-SA5C-SB-4.0-5.0	E098-03	ND	0.995	6.6	0.107	0.0533	05/17/1215:39	05/17/1211:15	M47E014041	M47E014032	HGE015S	05/14/12	05/14/12
SL-514-SA5C-SB-9.0-10.0	E098-05	ND	1.00	6.7	0.107	0.0536	05/17/1215:41	05/17/1211:15	M47E014042	M47E014032	HGE015S	05/14/12	05/14/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E098  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE015SB HGE015SL HGE015SC  
LAB FILE ID: M47E014010 M47E014011 M47E014012  
DATIME EXTRCTD: 05/17/1211:15 05/17/1211:15 05/17/1211:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/17/1214:33 05/17/1214:35 05/17/1214:37 DATE RECEIVED: 05/17/12  
PREP. BATCH: HGE015S HGE015S HGE015S  
CALIB. REF: M47E014008 M47E014008 M47E014008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.867	104	.833	.862	103	1	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E098  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 8.0  
DILTN FACTR: 0.990 0.990  
SAMPLE ID: SL-603-SA5C-SB-0.0-0.5  
CONTROL NO.: E034-03 E034-03A  
LAB FILE ID: M47E014019 M47E014018  
DATIME EXTRCTD: 05/17/1211:15 05/17/1211:15 DATE COLLECTED: 05/03/12  
DATIME ANALYZD: 05/17/1214:52 05/17/1214:50 DATE RECEIVED: 05/03/12  
PREP. BATCH: HGE015S HGE015S  
CALIB. REF: M47E014008 M47E014008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	.31	.896	1.21	100	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E098  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 8.0  
 DILUTION FACTOR: 0.990 4.95  
 SAMPLE ID: SL-603-SA5C-SB-0.0- SL-603-SA5C-SB-0.0-  
 EMAX SAMP ID: E034-03 E034-03J  
 LAB FILE ID: M47E014019 M47E014022  
 DATE EXTRACTED: 05/17/1211:15 05/17/1211:15 DATE COLLECTED: 05/03/12  
 DATE ANALYZED: 05/17/1214:52 05/17/1214:58 DATE RECEIVED: 05/03/12  
 PREP. BATCH: HGE015S HGE015S  
 CALIB. REF: M47E014008 M47E014020

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	0.310	0.300J	3	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E098  
 =====

Matrix : SOIL  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLE002SB	ND	1	NA	5.00	2.50	05/16/1212:17	05/16/1209:29	NE16008	NE16003	PLE002S	NA	05/16/12
LCS1S	PLE002SL	24.8	1	NA	5.00	2.50	05/16/1212:31	05/16/1209:29	NE16009	NE16003	PLE002S	NA	05/16/12
LCD1S	PLE002SC	27.4	1	NA	5.00	2.50	05/16/1212:46	05/16/1209:29	NE16010	NE16003	PLE002S	NA	05/16/12
SL-513-SA5C-SB-9.0-10.0	E098-01	ND	1	12.1	5.69	2.84	05/16/1215:30	05/16/1209:29	NE16021	NE16014	PLE002S	05/14/1210:10	05/14/12
SL-514-SA5C-SB-4.0-5.0	E098-03	ND	1	6.6	5.35	2.68	05/16/1215:44	05/16/1209:29	NE16022	NE16014	PLE002S	05/14/1211:20	05/14/12
SL-514-SA5C-SB-9.0-10.0	E098-05	ND	1	6.7	5.36	2.68	05/16/1215:59	05/16/1209:29	NE16023	NE16014	PLE002S	05/14/1212:25	05/14/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E098  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLE002SB PLE002SL PLE002SC  
LAB FILE ID: NE16008 NE16009 NE16010  
DATE EXTRACTED: 05/16/1209:29 05/16/1209:29 05/16/1209:29 DATE COLLECTED: NA  
DATE ANALYZED: 05/16/1212:17 05/16/1212:31 05/16/1212:46 DATE RECEIVED: 05/16/12  
PREP. BATCH: PLE002S PLE002S PLE002S  
CALIB. REF: NE16003 NE16003 NE16003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	24.8	99	25.0	27.4	110	10	85-115	20

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E098  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-513-SA5C-SB-9.0-10.0	E098-01	8.58	1	NA	NA	NA	05/15/1212:06	05/15/1210:46	12PHE013S01	PHE013S	PHE013S	05/14/1210:10	05/14/12
SL-514-SA5C-SB-4.0-5.0	E098-03	8.29	1	NA	NA	NA	05/15/1212:07	05/15/1210:46	12PHE013S02	PHE013S	PHE013S	05/14/1211:20	05/14/12
SL-514-SA5C-SB-4.0-5.0	DUPE098-03D	8.28	1	NA	NA	NA	05/15/1212:08	05/15/1210:46	12PHE013S03	PHE013S	PHE013S	05/14/1211:20	05/14/12
SL-514-SA5C-SB-9.0-10.0	E098-05	8.47	1	NA	NA	NA	05/15/1212:10	05/15/1210:46	12PHE013S04	PHE013S	PHE013S	05/14/1212:25	05/14/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E098	DATE RECEIVED:	05/14/12
SAMPLE ID:	SL-514-SA5C-SB-4.0-5.0DUP	DATE EXTRACTED:	05/15/1210:46
CONTROL NO.:	E098-03D	DATE ANALYZED:	05/15/1212:08

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.29	8.28	0.01	0.10

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/15/12
Project      : SSFL PHASE 3                       Date Received: 05/15/12
Batch No.    : 12E108                             Date Extracted: 05/21/12 14:39
Sample ID    : SL-556B-SA5C-SB-2.0-3.0           Date Analyzed: 05/23/12 01:46
Lab Samp ID  : E108-01                             Dilution Factor: 1
Lab File ID  : SE22033A                           Matrix          : SOIL
Ext Btch ID  : CPE027S                             % Moisture     : 9.6
Calib. Ref.  : SE22030A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.77   (16.56)	14.75	93.4   (112)	45-120
TETRACHLORO-M-XYLENE	15.23   (15.54)	14.75	103   (105)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/15/12
Project    : SSFL PHASE 3                       Date Received: 05/15/12
Batch No.  : 12E108                             Date Extracted: 05/21/12 14:39
Sample ID : SL-556C-SA5C-SB-2.0-3.0           Date Analyzed: 05/23/12 02:20
Lab Samp ID: E108-02                           Dilution Factor: 1
Lab File ID: SE22034A                          Matrix          : SOIL
Ext Btch ID: CPE027S                            % Moisture     : 11.0
Calib. Ref.: SE22030A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	14.33   (16.64)	14.98	95.7   (111)	45-120
TETRACHLORO-M-XYLENE	13.93   (14.12)	14.98	93.0   (94.3)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/15/12
Project      : SSFL PHASE 3                     Date Received: 05/15/12
Batch No.    : 12E108                           Date Extracted: 05/21/12 14:39
Sample ID    : SL-556D-SA5C-SB-2.0-3.0         Date Analyzed: 05/23/12 02:54
Lab Samp ID  : E108-03                          Dilution Factor: 1
Lab File ID  : SE22035A                         Matrix          : SOIL
Ext Btch ID  : CPE027S                          % Moisture     : 7.6
Calib. Ref.  : SE22030A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.53   (16.20)	14.43	93.8   (112)	45-120
TETRACHLORO-M-XYLENE	15.39   (15.77)	14.43	107   (109)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/15/12
Project    : SSFL PHASE 3                       Date Received: 05/15/12
Batch No.  : 12E108                             Date Extracted: 05/21/12 14:39
Sample ID  : SL-856D-SA5C-SB-2.0-3.0           Date Analyzed: 05/23/12 04:37
Lab Samp ID: E108-04                            Dilution Factor: 1
Lab File ID: SE22038A                          Matrix          : SOIL
Ext Btch ID: CPE027S                           % Moisture     : 6.6
Calib. Ref.: SE22030A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.25   (13.88)	14.27	78.8   (97.3)	45-120
TETRACHLORO-M-XYLENE	16.15   (16.16)	14.27	113   (113)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/15/12
Project      : SSFL PHASE 3                     Date Received: 05/15/12
Batch No.    : 12E108                           Date Extracted: 05/21/12 14:39
Sample ID    : SL-557A-SA5C-SB-2.0-3.0         Date Analyzed: 05/23/12 05:11
Lab Samp ID  : E108-05                           Dilution Factor: 1
Lab File ID  : SE22039A                         Matrix          : SOIL
Ext Btch ID  : CPE027S                          % Moisture     : 9.9
Calib. Ref.  : SE22030A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	16.14   (16.80)	14.79	109   (114)	45-120
TETRACHLORO-M-XYLENE	13.19   (13.47)	14.79	89.1   (91.1)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/15/12
Project      : SSFL PHASE 3                     Date Received: 05/15/12
Batch No.    : 12E108                           Date Extracted: 05/21/12 14:39
Sample ID    : SL-557B-SA5C-SB-2.0-3.0         Date Analyzed: 05/23/12 05:45
Lab Samp ID  : E108-06                           Dilution Factor: 1
Lab File ID  : SE22040A                          Matrix          : SOIL
Ext Btch ID  : CPE027S                            % Moisture     : 10.7
Calib. Ref.  : SE22030A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.60   (16.30)	14.93	91.1   (109)	45-120
TETRACHLORO-M-XYLENE	14.93   (14.97)	14.93	100   (100)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/15/12
Project      : SSFL PHASE 3                     Date Received: 05/15/12
Batch No.    : 12E108                           Date Extracted: 05/21/12 14:39
Sample ID    : SL-557C-SA5C-SB-2.0-3.0         Date Analyzed: 05/23/12 06:19
Lab Samp ID  : E108-07                           Dilution Factor: 1
Lab File ID  : SE22041A                         Matrix          : SOIL
Ext Btch ID  : CPE027S                          % Moisture     : 10.2
Calib. Ref.  : SE22030A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	15.62   (17.43)	14.84	105   (117)	45-120
TETRACHLORO-M-XYLENE	14.99   (15.47)	14.84	101   (104)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/15/12
Project      : SSFL PHASE 3                     Date Received: 05/15/12
Batch No.    : 12E108                           Date Extracted: 05/21/12 14:39
Sample ID    : SL-557D-SA5C-SB-2.0-3.0         Date Analyzed: 05/23/12 06:54
Lab Samp ID  : E108-08                          Dilution Factor: 1
Lab File ID  : SE22042A                         Matrix          : SOIL
Ext Btch ID  : CPE027S                          % Moisture     : 10.9
Calib. Ref.  : SE22030A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.39)   18.20	14.96	(103)   122*	45-120
TETRACHLORO-M-XYLENE	15.66   (16.10)	14.96	105   (108)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                       Date Received: 05/21/12
Batch No.   : 12E108                             Date Extracted: 05/21/12 14:39
Sample ID   : MBLK1S                             Date Analyzed: 05/22/12 17:12
Lab Samp ID: 60E027SB                           Dilution Factor: 1
Lab File ID: SE22018A                           Matrix          : SOIL
Ext Btch ID: CPE027S                             % Moisture     : NA
Calib. Ref.: SE22015A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.81)   17.17	13.33	(119)   129*	45-120
TETRACHLORO-M-XYLENE	14.81   (14.90)	13.33	111   (112)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E108  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E027SB 60E027SL 60E027SC  
LAB FILE ID: SE22018A SE22019A SE22020A  
DATE EXTRACTED: 05/21/1214:39 05/21/1214:39 05/21/1214:39 DATE COLLECTED: NA  
DATE ANALYZED: 05/22/1217:12 05/22/1217:47 05/22/1218:21 DATE RECEIVED: 05/21/12  
PREP. BATCH: CPE027S CPE027S CPE027S  
CALIB. REF: SE22015A SE22015A SE22015A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	184   (193)	110   (116)	167	180   (189)	108   (113)	2   (2)	50-130	50
Aroclor 1260	(ND)   ND	167	202   (212)	121   (127)	167	201   (211)	121   (127)	0   (0)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(109)   108	(131)   130	83.3	(104)   104	(125)   125	(5)   4	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(15.79)   16.80	(118)   126*	13.33	(15.79)   17.10	(118)   128*	45-120
Tetrachloro-m-xylene	13.33	14.51   (15.07)	109   (113)	13.33	14.35   (14.58)	108   (109)	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E108  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: 7.6  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-556D-SA5C-SB-2.0-3.0  
LAB SAMP ID: E108-03 E108-03M E108-03S  
LAB FILE ID: SE22035A SE22036A SE22037A  
DATE EXTRACTED: 05/21/1214:39 05/21/1214:39 05/21/1214:39 DATE COLLECTED: 05/15/12  
DATE ANALYZED: 05/23/1202:54 05/23/1203:28 05/23/1204:02 DATE RECEIVED: 05/15/12  
PREP. BATCH: CPE027S CPE027S CPE027S  
CALIB. REF: SE22030A SE22030A SE22030A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	180	175   (196)	97   (109)	180	180   (204)	100   (113)	3   (4)	20-160	50
Aroclor 1260	(ND)   ND	180	174   (192)	96   (106)	180	181   (200)	100   (111)	4   (4)	20-160	50
Aroclor 5460	(ND)   ND	90.2	104   (109)	115   (121)	90.2	108   (112)	120   (124)	4   (3)	20-160	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.43	13.06   (15.82)	90.6   (110)	14.43	13.42   (16.26)	93.0   (113)	45-120
Tetrachloro-m-xylene	14.43	14.86   (15.03)	103   (104)	14.43	15.36   (15.58)	106   (108)	10-160

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-695-SA5C-SB-4.0-5.0          Date Analyzed: 05/23/12 22:32
Lab Samp ID  : E116-01                          Dilution Factor: 1
Lab File ID  : REJ525                           Matrix          : SOIL
Ext Btch ID  : SVE044S                          % Moisture     : 7.9
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	225	361.9	62.3	40-130
2-FLUOROBIPHENYL	208	361.9	57.6	45-130
TERPHENYL-D14	279	361.9	77.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-695-SA5C-SB-9.0-10.0         Date Analyzed: 05/23/12 22:51
Lab Samp ID  : E116-03                          Dilution Factor: 1
Lab File ID  : REJ526                           Matrix          : SOIL
Ext Btch ID  : SVE044S                          % Moisture     : 13.8
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	206	386.7	53.2	40-130
2-FLUOROBIPHENYL	182	386.7	47.1	45-130
TERPHENYL-D14	254	386.7	65.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-698-SA5C-SB-4.0-5.0          Date Analyzed: 05/23/12 23:10
Lab Samp ID  : E116-09                           Dilution Factor: 1
Lab File ID  : REJ527                             Matrix          : SOIL
Ext Btch ID  : SVE044S                           % Moisture     : 11.5
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	242	376.6	64.2	40-130
2-FLUOROBIPHENYL	199	376.6	52.8	45-130
TERPHENYL-D14	300	376.6	79.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-698-SA5C-SB-9.0-10.0         Date Analyzed: 05/23/12 23:29
Lab Samp ID  : E116-11                          Dilution Factor: 1
Lab File ID  : REJ528                           Matrix          : SOIL
Ext Btch ID  : SVE044S                          % Moisture     : 7.9
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	170	361.9	47.1	40-130
2-FLUOROBIPHENYL	159	361.9	44.0*	45-130
TERPHENYL-D14	259	361.9	71.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E116                           Date Extracted: 05/23/12 11:50
Sample ID    : MBLK1S                           Date Analyzed: 05/23/12 20:38
Lab Samp ID  : SVE044SB                         Dilution Factor: 1
Lab File ID  : REJ519                           Matrix          : SOIL
Ext Btch ID  : SVE044S                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	243	333.3	73.0	40-130
2-FLUOROBIPHENYL	234	333.3	70.3	45-130
TERPHENYL-D14	273	333.3	81.8	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E116  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE044SB SVE044SL SVE044SC  
LAB FILE ID: REJ519 REJ517 REJ518  
DATE EXTRACTED: 05/23/1211:50 05/23/1211:50 05/23/1211:50 DATE COLLECTED: NA  
DATE ANALYZED: 05/23/1220:38 05/23/1220:01 05/23/1220:20 DATE RECEIVED: 05/23/12  
PREP. BATCH: SVE044S SVE044S SVE044S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	282	84	333	305	92	8	10-130	50
Acenaphthylene	ND	333	309	93	333	337	101	9	20-130	50
Anthracene	ND	333	268	80	333	295	89	10	20-130	50
Benzo (a) anthracene	ND	333	289	87	333	317	95	9	30-130	50
Benzo (a) pyrene	ND	333	318	95	333	344	103	8	30-130	50
Benzo (b) fluoranthene	ND	333	330	99	333	359	108	8	40-130	50
Benzo (k) fluoranthene	ND	333	338	101	333	371	111	9	30-140	50
Benzo (g, h, i) perylene	ND	333	367	110	333	388	116	5	30-140	50
Chrysene	ND	333	296	89	333	321	96	8	30-140	50
Dibenzo (a, h) anthracene	ND	333	362	109	333	383	115	6	40-140	50
Fluoranthene	ND	333	294	88	333	332	100	12	30-130	50
Fluorene	ND	333	288	86	333	314	94	9	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	354	106	333	375	112	6	20-160	50
Naphthalene	ND	333	275	83	333	297	89	8	10-130	50
Phenanthrene	ND	333	276	83	333	303	91	9	20-130	50
2-Methylnaphthalene	ND	333	289	87	333	313	94	8	30-150	50
1-Methylnaphthalene	ND	333	291	87	333	316	95	8	30-150	50
N-Nitrosodimethylamine	ND	333	264	79	333	287	86	9	30-150	50
Pyrene	ND	333	285	86	333	323	97	12	20-150	50
Azobenzene	ND	333	267	80	333	295	88	10	30-150	50
Benzo (e) pyrene	ND	333	279	84	333	309	93	10	30-150	50
Biphenyl	ND	333	237	71	333	261	78	9	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	231	69	333	250	75	40-130
2-Fluorobiphenyl	333	224	67	333	243	73	45-130
Terphenyl-d14	333	262	79	333	288	87	45-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/16/12
Project    : SSFL PHASE 3                       Date Received: 05/16/12
Batch No.  : 12E116                             Date Extracted: 05/21/12 15:41
Sample ID: SL-695-SA5C-SB-5.0                 Date Analyzed: 05/21/12 15:41
Lab Samp ID: E116-02                          Dilution Factor: .97
Lab File ID: EE21007A                         Matrix          : SOIL
Ext Btch ID: GME014S                          % Moisture     : 8.1
Calib. Ref.: EE21002A                         Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.53
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.74	2.111	82.6 70-140

RL : Reporting Limit

Methanol Extraction : 05/18/12 15:31

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 16:24
Sample ID    : SL-695-SA5C-SB-10.0             Date Analyzed: 05/21/12 16:24
Lab Samp ID  : E116-04                          Dilution Factor: .96
Lab File ID  : EE21008A                        Matrix          : SOIL
Ext Btch ID  : GME014S                         % Moisture     : 11.2
Calib. Ref.  : EE21002A                       Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.54
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.70	2.162	78.7 70-140

RL : Reporting Limit

Methanol Extraction : 05/18/12 15:31

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 17:06
Sample ID:   SL-697-SA5C-SB-5.0                Date Analyzed: 05/21/12 17:06
Lab Samp ID: E116-06                            Dilution Factor: .94
Lab File ID: EE21009A                           Matrix          : SOIL
Ext Btch ID: GME014S                             % Moisture     : 7.5
Calib. Ref.: EE21002A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.68	2.032	82.9 70-140

RL : Reporting Limit

Methanol Extraction : 05/18/12 15:31

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 17:50
Sample ID    : SL-697-SA5C-SB-10.0             Date Analyzed: 05/21/12 17:50
Lab Samp ID  : E116-08                         Dilution Factor: .81
Lab File ID  : EE21010A                       Matrix          : SOIL
Ext Btch ID  : GME014S                        % Moisture     : 11.6
Calib. Ref.  : EE21002A                       Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.92	0.46

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.41	1.833	77.2	70-140

RL : Reporting Limit

Methanol Extraction : 05/18/12 15:31

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 18:33
Sample ID:   SL-698-SA5C-SB-5.0                Date Analyzed: 05/21/12 18:33
Lab Samp ID: E116-10                            Dilution Factor: .87
Lab File ID: EE21011A                          Matrix          : SOIL
Ext Btch ID: GME014S                            % Moisture     : 12.4
Calib. Ref.: EE21002A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.99	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.55	1.986	78.1 70-140

RL : Reporting Limit

Methanol Extraction : 05/18/12 15:31

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 19:16
Sample ID    : SL-698-SA5C-SB-10.0             Date Analyzed: 05/21/12 19:16
Lab Samp ID  : E116-12                         Dilution Factor: .91
Lab File ID  : EE21012A                       Matrix          : SOIL
Ext Btch ID  : GME014S                        % Moisture     : 9.5
Calib. Ref.  : EE21002A                       Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.66	2.011	82.5 70-140

RL : Reporting Limit

Methanol Extraction : 05/18/12 15:31

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.   : 12E116                           Date Extracted: 05/21/12 13:32
Sample ID   : MBLK1S                           Date Analyzed: 05/21/12 13:32
Lab Samp ID: GME014SB                         Dilution Factor: 1
Lab File ID: EE21004A                        Matrix          : SOIL
Ext Btch ID: GME014S                         % Moisture      : NA
Calib. Ref.: EE21002A                        Instrument ID   : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.69	2.000	84.4 60-130

RL : Reporting Limit

Methanol Extraction : 05/18/12 15:31

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E116  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GME014SB GME014SL GME014SC  
LAB FILE ID: EE21004A EE21005A EE21006A  
DATE EXTRACTED: 05/21/1213:32 05/21/1214:15 05/21/1214:58 DATE COLLECTED: NA  
DATE ANALYZED: 05/21/1213:32 05/21/1214:15 05/21/1214:58 DATE RECEIVED: 05/21/12  
PREP. BATCH: GME014S GME014S GME014S  
CALIB. REF: EE21002A EE21002A EE21002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	20.8	83	25.0	22.5	90	8	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.23	112	2.00	2.29	115	60-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/23/12 00:02
Sample ID    : TB-051612                        Date Analyzed: 05/23/12 00:02
Lab Samp ID  : E116-13                          Dilution Factor: 1
Lab File ID  : EE21052A                         Matrix          : WATER
Ext Btch ID  : VG39E13                          % Moisture     : NA
Calib. Ref.  : EE21047A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	22J	50	10
SURROGATE PARAMETERS			
4-BROMOFLUOROBENZENE	34.5	40.00	60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.   : 12E116                           Date Extracted: 05/22/12 23:18
Sample ID   : MBLK1W                           Date Analyzed: 05/22/12 23:18
Lab Samp ID: VG39E13Q                         Dilution Factor: 1
Lab File ID: EE21051A                        Matrix          : WATER
Ext Btch ID: VG39E13                          % Moisture     : NA
Calib. Ref.: EE21047A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS			
4-BROMOFLUOROBENZENE	34.1	40.00	60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E116  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39E13Q VG39E13L VG39E13C  
LAB FILE ID: EE21051A EE21048A EE21049A  
DATE EXTRACTED: 05/22/1223:18 05/22/1221:09 05/22/1221:52 DATE COLLECTED: NA  
DATE ANALYZED: 05/22/1223:18 05/22/1221:09 05/22/1221:52 DATE RECEIVED: 05/22/12  
PREP. BATCH: VG39E13 VG39E13 VG39E13  
CALIB. REF: EE21047A EE21047A EE21047A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	421	84	500	425	85	1	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	42.4	106	40.0	41.6	104	60-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 10:18
Sample ID    : SL-695-SA5C-SB-4.0-5.0          Date Analyzed: 05/21/12 15:38
Lab Samp ID  : E116-01                           Dilution Factor: 1
Lab File ID  : LE21009A                         Matrix          : SOIL
Ext Btch ID  : DSE023S                          % Moisture     : 7.9
Calib. Ref.  : LE21003A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.5	108.6	66.8	50-150
HEXACOSANE	18.7	27.14	69.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 10:18
Sample ID    : SL-695-SA5C-SB-9.0-10.0         Date Analyzed: 05/21/12 16:12
Lab Samp ID  : E116-03                          Dilution Factor: 1
Lab File ID  : LE21011A                        Matrix          : SOIL
Ext Btch ID  : DSE023S                          % Moisture     : 13.8
Calib. Ref.  : LE21003A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.8	116.0	66.2	50-150
HEXACOSANE	20.6	29.00	71.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 10:18
Sample ID   : SL-697-SA5C-SB-4.0-5.0          Date Analyzed: 05/21/12 15:55
Lab Samp ID : E116-05                           Dilution Factor: 1
Lab File ID : LE21010A                          Matrix          : SOIL
Ext Btch ID : DSE023S                           % Moisture     : 7.1
Calib. Ref. : LE21003A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	11	5.4	2.7
EFH(C21-C30)	5.8	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	17	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.5	107.6	67.3	50-150
HEXACOSANE	19.1	26.91	71.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 10:18
Sample ID:   SL-697-SA5C-SB-9.0-10.0           Date Analyzed: 05/21/12 16:28
Lab Samp ID: E116-07                            Dilution Factor: 1
Lab File ID: LE21012A                           Matrix          : SOIL
Ext Btch ID: DSE023S                             % Moisture     : 12.7
Calib. Ref.: LE21003A                           Instrument ID  : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	ND	5.7	2.9
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.6	114.5	67.7	50-150
HEXACOSANE	20.9	28.64	73.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 10:18
Sample ID:   SL-698-SA5C-SB-4.0-5.0           Date Analyzed: 05/21/12 16:45
Lab Samp ID: E116-09                           Dilution Factor: 1
Lab File ID: LE21013A                          Matrix          : SOIL
Ext Btch ID: DSE023S                           % Moisture     : 11.5
Calib. Ref.: LE21003A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	3.0J	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	3.0J	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.3	113.0	67.5	50-150
HEXACOSANE	20.1	28.25	71.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 10:18
Sample ID:   SL-698-SA5C-SB-9.0-10.0           Date Analyzed: 05/21/12 17:02
Lab Samp ID: E116-11                            Dilution Factor: 1
Lab File ID: LE21014A                          Matrix          : SOIL
Ext Btch ID: DSE023S                            % Moisture     : 7.9
Calib. Ref.: LE21003A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	8.0	5.4	2.7
EFH(C30-C40)	13	11	5.4
TOTAL EFH(C8-C40)	21	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.2	108.6	63.7	50-150
HEXACOSANE	21.1	27.14	77.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 10:18
Sample ID    : MBLK1S                            Date Analyzed: 05/21/12 14:48
Lab Samp ID  : DSE023SB                         Dilution Factor: 1
Lab File ID  : LE21006A                        Matrix          : SOIL
Ext Btch ID  : DSE023S                         % Moisture      : NA
Calib. Ref.  : LE21003A                       Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.9	100.0	69.9	50-150
HEXACOSANE	17.6	25.00	70.5	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E116  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE023SB DSE023SL DSE023SC  
LAB FILE ID: LE21006A LE21007A LE21008A  
DATE EXTRACTED: 05/21/1210:18 05/21/1210:18 05/21/1210:18 DATE COLLECTED: NA  
DATE ANALYZED: 05/21/1214:48 05/21/1215:05 05/21/1215:21 DATE RECEIVED: 05/21/12  
PREP. BATCH: DSE023S DSE023S DSE023S  
CALIB. REF: LE21003A LE21003A LE21003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	503	101	500	488	98	3	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	78.3	78	100	75.1	75	50-150
Hexacosane	25.0	19.3	77	25.0	18.3	73	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 14:39
Sample ID    : SL-695-SA5C-SB-4.0-5.0          Date Analyzed: 05/23/12 11:14
Lab Samp ID  : E116-01                           Dilution Factor: 1
Lab File ID  : SE22050A                          Matrix          : SOIL
Ext Btch ID  : CPE027S                            % Moisture     : 7.9
Calib. Ref.  : SE22044A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.43)   17.96	14.47	(99.7)   124*	45-120
TETRACHLORO-M-XYLENE	13.66   (14.33)	14.47	94.4   (99.0)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/16/12
Project     : SSFL PHASE 3                     Date Received: 05/16/12
Batch No.   : 12E116                           Date Extracted: 05/21/12 14:39
Sample ID   : SL-695-SA5C-SB-9.0-10.0         Date Analyzed: 05/23/12 11:48
Lab Samp ID : E116-03                          Dilution Factor: 1
Lab File ID : SE22051A                        Matrix          : SOIL
Ext Btch ID : CPE027S                          % Moisture     : 13.8
Calib. Ref. : SE22044A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.67)   18.88	15.46	(108)   122*	45-120
TETRACHLORO-M-XYLENE	14.04   (14.65)	15.46	90.8   (94.7)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E116                           Date Extracted: 05/21/12 14:39
Sample ID    : MBLK1S                            Date Analyzed: 05/22/12 17:12
Lab Samp ID  : 60E027SB                         Dilution Factor: 1
Lab File ID  : SE22018A                        Matrix          : SOIL
Ext Btch ID  : CPE027S                         % Moisture     : NA
Calib. Ref.  : SE22015A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.81)   17.17	13.33	(119)   129*	45-120
TETRACHLORO-M-XYLENE	14.81   (14.90)	13.33	111   (112)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E116  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E027SB 60E027SL 60E027SC  
LAB FILE ID: SE22018A SE22019A SE22020A  
DATE EXTRACTED: 05/21/1214:39 05/21/1214:39 05/21/1214:39 DATE COLLECTED: NA  
DATE ANALYZED: 05/22/1217:12 05/22/1217:47 05/22/1218:21 DATE RECEIVED: 05/21/12  
PREP. BATCH: CPE027S CPE027S CPE027S  
CALIB. REF: SE22015A SE22015A SE22015A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	184   (193)	110   (116)	167	180   (189)	108   (113)	2   (2)	50-130	50
Aroclor 1260	(ND)   ND	167	202   (212)	121   (127)	167	201   (211)	121   (127)	0   (0)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(109)   108	(131)   130	83.3	(104)   104	(125)   125	(5)   4	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(15.79)   16.80	(118)   126*	13.33	(15.79)   17.10	(118)   128*	45-120
Tetrachloro-m-xylene	13.33	14.51   (15.07)	109   (113)	13.33	14.35   (14.58)	108   (109)	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/16/12
Project    : SSFL PHASE 3                     Date Received: 05/16/12
SDG NO.    : 12E116                           Date Extracted: 05/23/12 12:15
Sample ID: SL-695-SA5C-SB-4.0-5.0           Date Analyzed: 05/25/12 15:30
Lab Samp ID: E116-01                         Dilution Factor: 0.966
Lab File ID: 98E11049                        Matrix          : SOIL
Ext Btch ID: IME029S                          % Moisture     : 7.9
Calib. Ref.: 98E11042                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13900	105	12.6
Antimony	0.196J	0.524	0.105
Arsenic	4.37	0.524	0.210
Barium	92.6	0.524	0.210
Beryllium	0.695	0.524	0.0524
Boron	ND	5.24	2.62
Cadmium	0.169J	0.524	0.0524
Calcium	2600	21.0	10.5
Chromium	23.1	0.524	0.210
Cobalt	6.11	0.524	0.0524
Copper	6.97	0.524	0.210
Iron	19800	105	10.5
Lead	5.82	0.524	0.105
Magnesium	4250	10.5	5.24
Manganese	282	0.524	0.262
Molybdenum	0.527	0.524	0.0524
Nickel	11.5	0.524	0.210
Potassium	2080	105	31.5
Selenium	ND	0.524	0.210
Silver	ND	0.524	0.0524
Sodium	407	105	52.4
Strontium	28.5	0.524	0.262
Thallium	0.262J	0.420	0.0524
Tin	ND	10.5	5.24
Titanium	959	1.05	0.524
Vanadium	33.9	0.524	0.0524
Zinc	44.4	5.24	1.57
Lithium	19.7	2.10	1.05
Phosphorus	168	12.6	6.29
Zirconium	ND	5.24	2.62

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/16/12
Project      : SSFL PHASE 3                     Date Received: 05/16/12
SDG NO.     : 12E116                           Date Extracted: 05/23/12 12:15
Sample ID   : SL-695-SA5C-SB-9.0-10.0         Date Analyzed: 05/25/12 15:35
Lab Samp ID : E116-03                          Dilution Factor: 0.980
Lab File ID : 98E11050                        Matrix          : SOIL
Ext Btch ID : IME029S                         % Moisture     : 13.8
Calib. Ref. : 98E11042                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14100	114	13.6
Antimony	0.176J	0.568	0.114
Arsenic	4.11	0.568	0.227
Barium	72.0	0.568	0.227
Beryllium	0.704	0.568	0.0568
Boron	ND	5.68	2.84
Cadmium	0.168J	0.568	0.0568
Calcium	2730	22.7	11.4
Chromium	19.4	0.568	0.227
Cobalt	4.96	0.568	0.0568
Copper	7.48	0.568	0.227
Iron	20700	114	11.4
Lead	5.43	0.568	0.114
Magnesium	3960	11.4	5.68
Manganese	178	0.568	0.284
Molybdenum	0.342J	0.568	0.0568
Nickel	9.60	0.568	0.227
Potassium	1920	114	34.1
Selenium	ND	0.568	0.227
Silver	0.0699J	0.568	0.0568
Sodium	527	114	56.8
Strontium	28.9	0.568	0.284
Thallium	0.245J	0.455	0.0568
Tin	ND	11.4	5.68
Titanium	885	1.14	0.568
Vanadium	31.7	0.568	0.0568
Zinc	41.7	5.68	1.71
Lithium	19.0	2.27	1.14
Phosphorus	180	13.6	6.82
Zirconium	ND	5.68	2.84

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.    : 12E116                           Date Extracted: 05/23/12 12:15
Sample ID: MBLK1S                             Date Analyzed: 05/25/12 13:18
Lab Samp ID: IME029SB                         Dilution Factor: 1
Lab File ID: 98E11020                        Matrix          : SOIL
Ext Btch ID: IME029S                          % Moisture     : NA
Calib. Ref.: 98E11018                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E116  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME029SB IME029SL IME029SC  
LAB FILE ID: 98E11020 98E11021 98E11022  
DATIME EXTRACTD: 05/23/1212:15 05/23/1212:15 05/23/1212:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/25/1213:18 05/25/1213:23 05/25/1213:27 DATE RECEIVED: 05/23/12  
PREP. BATCH: IME029S IME029S IME029S  
CALIB. REF: 98E11018 98E11018 98E11018

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2580	103	2500	2430	97	6	80-120	20
Antimony	ND	25.0	25.1	100	25.0	24.5	98	2	80-120	20
Arsenic	ND	25.0	24.5	98	25.0	24.1	96	2	80-120	20
Barium	ND	25.0	25.0	100	25.0	24.6	98	2	80-120	20
Beryllium	ND	25.0	25.0	100	25.0	24.4	97	3	80-120	20
Boron	ND	25.0	25.5	102	25.0	24.9	100	2	80-120	20
Cadmium	ND	25.0	24.4	98	25.0	23.9	96	2	80-120	20
Calcium	ND	2500	2590	103	2500	2450	98	5	80-120	20
Chromium	ND	25.0	24.3	97	25.0	23.7	95	2	80-120	20
Cobalt	ND	25.0	25.2	101	25.0	24.4	98	3	80-120	20
Copper	ND	25.0	24.1	96	25.0	23.4	94	3	80-120	20
Iron	ND	2500	2550	102	2500	2430	97	5	80-120	20
Lead	ND	25.0	24.8	99	25.0	24.3	97	2	80-120	20
Magnesium	ND	2500	2570	103	2500	2430	97	5	80-120	20
Manganese	ND	25.0	25.5	102	25.0	24.6	98	3	80-120	20
Molybdenum	ND	25.0	24.8	99	25.0	24.4	98	2	80-120	20
Nickel	ND	25.0	24.0	96	25.0	23.4	94	2	80-120	20
Potassium	ND	2500	2630	105	2500	2490	99	6	80-120	20
Selenium	ND	25.0	24.0	96	25.0	23.1	93	4	80-120	20
Silver	ND	25.0	24.6	98	25.0	24.3	97	1	80-120	20
Sodium	ND	2500	2520	101	2500	2420	97	4	80-120	20
Strontium	ND	25.0	25.0	100	25.0	24.6	98	2	80-120	20
Thallium	ND	25.0	24.9	99	25.0	24.4	98	2	80-120	20
Tin	ND	25.0	27.3	109	25.0	26.8	107	2	80-120	20
Titanium	ND	25.0	25.4	102	25.0	24.7	99	3	80-120	20
Vanadium	ND	25.0	24.3	97	25.0	23.7	95	3	80-120	20
Zinc	ND	50.0	48.1	96	50.0	47.1	94	2	80-120	20
Lithium	ND	25.0	25.1	100	25.0	24.9	100	1	80-120	20
Phosphorus	ND	250	245	98	250	237	95	3	80-120	20
Zirconium	ND	25.0	24.7	99	25.0	24.4	98	1	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E116  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 9.9  
DILTN FACTR: 0.966 0.966  
SAMPLE ID: SL-739-SA5C-SB-9.0-10.0  
CONTROL NO.: E134-29 E134-29A  
LAB FILE ID: 98E11026 98E11025  
DATIME EXTRACTD: 05/23/1212:15 05/23/1212:15 DATE COLLECTED: 05/17/12  
DATIME ANALYZD: 05/25/1213:45 05/25/1213:41 DATE RECEIVED: 05/17/12  
PREP. BATCH: IME029S IME029S  
CALIB. REF: 98E11018 98E11018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	16400	2680	19200	104	75-125
Antimony	0.236J	26.8	27.1	100	75-125
Arsenic	4.15	26.8	28.7	92	75-125
Barium	82.6	26.8	113	114	75-125
Beryllium	0.635	26.8	27.0	98	75-125
Boron	ND	26.8	28.1	105	75-125
Cadmium	0.163J	26.8	26.3	97	75-125
Calcium	1420	2680	4080	99	75-125
Chromium	18.5	26.8	42.2	88	75-125
Cobalt	4.20	26.8	27.9	89	75-125
Copper	6.84	26.8	29.6	85	75-125
Iron	19400	2680	22000	99	75-125
Lead	5.27	26.8	31.1	96	75-125
Magnesium	4070	2680	6680	98	75-125
Manganese	158	26.8	182	90	75-125
Molybdenum	0.716	26.8	27.3	99	75-125
Nickel	9.54	26.8	32.4	85	75-125
Potassium	1400	2680	4180	104	75-125
Selenium	ND	26.8	24.9	93	75-125
Silver	ND	26.8	26.3	98	75-125
Sodium	1270	2680	3800	94	75-125
Strontium	20.7	26.8	46.7	97	75-125
Thallium	0.275J	26.8	26.1	96	75-125
Tin	ND	26.8	30.4	114	75-125
Titanium	961	26.8	987	98	75-125
Vanadium	34.7	26.8	58.9	90	75-125
Zinc	38.6	53.6	87.0	90	75-125
Lithium	20.4	26.8	47.4	101	75-125
Phosphorus	89.8	268	328	89	75-125
Zirconium	ND	26.8	29.0	108	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E116  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 9.9  
DILUTION FACTOR: 0.966 4.83  
SAMPLE ID: SL-739-SA5C-SB SL-739-SA5C-SB  
EMAX SAMP ID: E134-29 E134-29J  
LAB FILE ID: 98E11026 98E11027  
DATE EXTRACTED: 05/23/1212:15 05/23/1212:15 DATE COLLECTED: 05/17/12  
DATE ANALYZED: 05/25/1213:45 05/25/1213:50 DATE RECEIVED: 05/17/12  
PREP. BATCH: IME029S IME029S  
CALIB. REF: 98E11018 98E11018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	16400	17800	9	10
Antimony	0.236J	ND	NA	10
Arsenic	4.15	4.44	7	10
Barium	82.6	82.2	0	10
Beryllium	0.635	0.686J	NA	10
Boron	ND	ND	0	10
Cadmium	0.163J	ND	NA	10
Calcium	1420	1560	10	10
Chromium	18.5	19.9	8	10
Cobalt	4.20	4.62	10	10
Copper	6.84	7.67	12*	10
Iron	19400	21100	9	10
Lead	5.27	5.39	2	10
Magnesium	4070	4430	9	10
Manganese	158	174	11*	10
Molybdenum	0.716	0.720J	NA	10
Nickel	9.54	10.4	9	10
Potassium	1400	1510	8	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	1270	1420	12*	10
Strontium	20.7	20.5	1	10
Thallium	0.275J	0.285J	NA	10
Tin	ND	ND	0	10
Titanium	961	1020	6	10
Vanadium	34.7	37.1	7	10
Zinc	38.6	40.6	5	10
Lithium	20.4	19.8	3	10
Phosphorus	89.8	97.4	8	10
Zirconium	ND	ND	0	10

METHOD 7471A  
 MERCURY BY COLD VAPOR

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E116  
 =====

Matrix : SOIL  
 Instrument ID : TI047  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE019SB	ND	1	NA	0.100	0.0500	05/22/1212:44	05/22/1211:00	M47E017010	M47E017008	HGE019S	NA	05/22/12
LCS1S	HGE019SL	0.872	1	NA	0.100	0.0500	05/22/1212:46	05/22/1211:00	M47E017011	M47E017008	HGE019S	NA	05/22/12
LCD1S	HGE019SC	0.863	1	NA	0.100	0.0500	05/22/1212:48	05/22/1211:00	M47E017012	M47E017008	HGE019S	NA	05/22/12
SL-695-SA5C-SB-4.0-5.0	E116-01	ND	0.988	7.9	0.107	0.0536	05/22/1213:15	05/22/1211:00	M47E017025	M47E017020	HGE019S	05/16/12	05/16/12
SL-695-SA5C-SB-9.0-10.0	E116-03	ND	0.990	13.8	0.115	0.0574	05/22/1213:17	05/22/1211:00	M47E017026	M47E017020	HGE019S	05/16/12	05/16/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E116  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE019SB HGE019SL HGE019SC  
LAB FILE ID: M47E017010 M47E017011 M47E017012  
DATIME EXTRCTD: 05/22/1211:00 05/22/1211:00 05/22/1211:00 DATE COLLECTED: NA  
DATIME ANALYZD: 05/22/1212:44 05/22/1212:46 05/22/1212:48 DATE RECEIVED: 05/22/12  
PREP. BATCH: HGE019S HGE019S HGE019S  
CALIB. REF: M47E017008 M47E017008 M47E017008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.872	105	.833	.863	104	1	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E116  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 82.2  
DILTN FACTR: 0.982 0.982  
SAMPLE ID: MA11-051112  
CONTROL NO.: E100-01 E100-01A  
LAB FILE ID: M47E017014 M47E017013  
DATIME EXTRCTD: 05/22/1211:00 05/22/1211:00 DATE COLLECTED: 05/11/12  
DATIME ANALYZD: 05/22/1212:52 05/22/1212:50 DATE RECEIVED: 05/15/12  
PREP. BATCH: HGE019S HGE019S  
CALIB. REF: M47E017008 M47E017008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	4.6	4.78	104	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E116  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	82.2
DILUTION FACTOR:	0.982	4.91		
SAMPLE ID:	MA11-051112	MA11-051112DL		
EMAX SAMP ID:	E100-01	E100-01J		
LAB FILE ID:	M47E017014	M47E017015		
DATE EXTRACTED:	05/22/1211:00	05/22/1211:00	DATE COLLECTED:	05/11/12
DATE ANALYZED:	05/22/1212:52	05/22/1212:54	DATE RECEIVED:	05/15/12
PREP. BATCH:	HGE019S	HGE019S		
CALIB. REF:	M47E017008	M47E017008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 7199  
 HEXAVALENT CHROMIUM

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E116

Matrix : SOIL  
 Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF MOIST		RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCE005SB	ND	1	NA	1.00	0.500	05/23/1212:31	05/22/1214:16	IE23003	IE23001	HCE005S	NA	05/22/12
MBLK1S	HCE005SQ	ND	1	NA	1.00	0.500	05/23/1212:41	05/22/1214:16	IE23004	IE23001	HCE005S	NA	05/22/12
LCS1S	CSE005SL	10.3	1	NA	1.00	0.500	05/23/1212:51	05/22/1214:16	IE23005	IE23001	HCE005S	NA	05/22/12
LCS1S	CSE005SX	10.2	1	NA	1.00	0.500	05/23/1213:02	05/22/1214:16	IE23006	IE23001	HCE005S	NA	05/22/12
LCS2S	CIE005SL	388	20	NA	20.0	10.0	05/23/1213:12	05/22/1214:16	IE23007	IE23001	HCC005S	NA	05/22/12
LCS2S	CIE005SX	414	20	NA	20.0	10.0	05/23/1213:23	05/22/1214:16	IE23008	IE23001	HCE005S	NA	05/22/12
SL-695-SA5C-SB-4.0-5.0	E116-01	ND	1	7.9	1.09	0.543	05/23/1213:33	05/22/1214:16	IE23009	IE23001	HCE005S	05/16/1208:55	05/16/12
SL-695-SA5C-SB-4.0-5.0	E116-01R	ND	1	7.9	1.09	0.543	05/23/1213:43	05/22/1214:16	IE23010	IE23001	HCE005S	05/16/1208:55	05/16/12
SL-695-SA5C-SB-9.0-10.0	E116-03	ND	1	13.8	1.16	0.580	05/23/1213:54	05/22/1214:16	IE23011	IE23001	HCE005S	05/16/1209:56	05/16/12
SL-695-SA5C-SB-9.0-10.0	E116-03R	ND	1	13.8	1.16	0.580	05/23/1214:04	05/22/1214:16	IE23012	IE23001	HCE005S	05/16/1209:56	05/16/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E116  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 20  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE005SB CIE005SL  
LAB FILE ID: IE23003 IE23007  
DATE EXTRACTED: 05/22/1214:16 05/22/1214:16 DATE COLLECTED: NA  
DATE ANALYZED: 05/23/1212:31 05/23/1213:12 DATE RECEIVED: 05/22/12  
PREP. BATCH: HCE005S HCC005S  
CALIB. REF: IE23001 IE23001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	386	388	101	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E116  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 20  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE005SQ CIE005SX  
LAB FILE ID: IE23004 IE23008  
DATE EXTRACTED: 05/22/1214:16 05/22/1214:16 DATE COLLECTED: NA  
DATE ANALYZED: 05/23/1212:41 05/23/1213:23 DATE RECEIVED: 05/22/12  
PREP. BATCH: HCE005S HCE005S  
CALIB. REF: IE23001 IE23001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	386	414	107	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E116  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE005SB CSE005SL  
LAB FILE ID: IE23003 IE23005  
DATE EXTRACTED: 05/22/1214:16 05/22/1214:16 DATE COLLECTED: NA  
DATE ANALYZED: 05/23/1212:31 05/23/1212:51 DATE RECEIVED: 05/22/12  
PREP. BATCH: HCE005S HCE005S  
CALIB. REF: IE23001 IE23001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	10.3	103	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E116  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE005SQ CSE005SX  
LAB FILE ID: IE23004 IE23006  
DATE EXTRACTED: 05/22/1214:16 05/22/1214:16 DATE COLLECTED: NA  
DATE ANALYZED: 05/23/1212:41 05/23/1213:02 DATE RECEIVED: 05/22/12  
PREP. BATCH: HCE005S HCE005S  
CALIB. REF: IE23001 IE23001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	10.2	102	80-120

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/21/12 10:30
Sample ID    : EB1-051712                       Date Analyzed: 05/23/12 21:54
Lab Samp ID  : E134-01                          Dilution Factor: 1.1
Lab File ID  : REJ523                           Matrix          : WATER
Ext Btch ID  : SVE040W                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.22	0.11
ACENAPHTHYLENE	ND	0.22	0.11
ANTHRACENE	ND	0.22	0.11
BENZO (A) ANTHRACENE	ND	0.22	0.11
BENZO (A) PYRENE	ND	0.22	0.11
BENZO (B) FLUORANTHENE	ND	0.22	0.11
BENZO (K) FLUORANTHENE	ND	0.22	0.11
BENZO (G, H, I) PERYLENE	ND	0.22	0.11
CHRYSENE	ND	0.22	0.11
DIBENZO (A, H) ANTHRACENE	ND	0.22	0.11
FLUORANTHENE	ND	0.22	0.11
FLUORENE	ND	0.22	0.11
INDENO (1, 2, 3-CD) PYRENE	ND	0.22	0.11
NAPHTHALENE	0.12J	0.22	0.11
PHENANTHRENE	ND	0.22	0.11
2-METHYLNAPHTHALENE	ND	0.22	0.11
1-METHYLNAPHTHALENE	ND	0.22	0.11
N-NITROSODIMETHYLAMINE	ND	1.1	0.11
PYRENE	ND	0.22	0.11
AZOBENZENE	ND	1.1	0.11
BENZO (E) PYRENE	ND	0.22	0.11
BIPHENYL	ND	2.2	0.55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	14.0	22.00	63.8	40-130
2-FLUOROBIPHENYL	12.8	22.00	58.4	45-130
TERPHENYL-D14	15.2	22.00	69.1	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/21/12 10:30
Sample ID    : EB2-051712                       Date Analyzed: 05/23/12 22:13
Lab Samp ID  : E134-02                           Dilution Factor: 1.05
Lab File ID  : REJ524                             Matrix          : WATER
Ext Btch ID  : SVE040W                           % Moisture     : NA
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.21	0.10
ACENAPHTHYLENE	ND	0.21	0.10
ANTHRACENE	ND	0.21	0.10
BENZO (A) ANTHRACENE	ND	0.21	0.10
BENZO (A) PYRENE	ND	0.21	0.10
BENZO (B) FLUORANTHENE	ND	0.21	0.10
BENZO (K) FLUORANTHENE	ND	0.21	0.10
BENZO (G, H, I) PERYLENE	ND	0.21	0.10
CHRYSENE	ND	0.21	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.21	0.10
FLUORANTHENE	ND	0.21	0.10
FLUORENE	ND	0.21	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.21	0.10
NAPHTHALENE	0.11J	0.21	0.10
PHENANTHRENE	ND	0.21	0.10
2-METHYLNAPHTHALENE	ND	0.21	0.10
1-METHYLNAPHTHALENE	ND	0.21	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.21	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.21	0.10
BIPHENYL	ND	2.1	0.52

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	13.8	21.00	65.8	40-130
2-FLUOROBIPHENYL	12.3	21.00	58.6	45-130
TERPHENYL-D14	15.4	21.00	73.3	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E134                           Date Extracted: 05/21/12 10:30
Sample ID    : MBLK1W                           Date Analyzed: 05/23/12 21:35
Lab Samp ID  : SVE040WB                         Dilution Factor: 1
Lab File ID  : REJ522                           Matrix          : WATER
Ext Btch ID  : SVE040W                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	14.0	20.00	69.8	40-130
2-FLUOROBIPHENYL	12.4	20.00	61.8	45-130
TERPHENYL-D14	16.8	20.00	83.9	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E134  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVE040WB SVE040WL SVE040WC  
LAB FILE ID: REJ522 REJ520 REJ521  
DATE EXTRACTED: 05/21/1210:30 05/21/1210:30 05/21/1210:30 DATE COLLECTED: NA  
DATE ANALYZED: 05/23/1221:35 05/23/1220:57 05/23/1221:16 DATE RECEIVED: 05/21/12  
PREP. BATCH: SVE040W SVE040W SVE040W  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	30.5	76	40.0	30.6	76	0	20-130	30
Acenaphthylene	ND	40.0	34.3	86	40.0	34.4	86	0	30-140	30
Anthracene	ND	40.0	31.7	79	40.0	31.9	80	1	40-130	30
Benzo (a) anthracene	ND	40.0	33.4	83	40.0	34.7	87	4	50-130	30
Benzo (a) pyrene	ND	40.0	35.9	90	40.0	35.9	90	0	50-130	30
Benzo (b) fluoranthene	ND	40.0	37.8	95	40.0	36.5	91	4	50-130	30
Benzo (k) fluoranthene	ND	40.0	35.8	90	40.0	36.7	92	2	50-130	30
Benzo (g, h, i) perylene	ND	40.0	40.3	101	40.0	40.3	101	0	30-150	30
Chrysene	ND	40.0	31.4	79	40.0	32.6	82	4	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	40.4	101	40.0	40.1	100	1	40-140	30
Fluoranthene	ND	40.0	35.0	87	40.0	35.4	88	1	40-130	30
Fluorene	ND	40.0	32.9	82	40.0	32.8	82	0	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	40.4	101	40.0	40.1	100	1	40-130	30
Naphthalene	ND	40.0	29.2	73	40.0	28.9	72	1	20-130	30
Phenanthrene	ND	40.0	32.1	80	40.0	32.4	81	1	40-130	30
2-Methylnaphthalene	ND	40.0	31.2	78	40.0	30.9	77	1	30-150	30
1-Methylnaphthalene	ND	40.0	30.8	77	40.0	30.7	77	0	40-150	30
N-Nitrosodimethylamine	ND	40.0	28.8	72	40.0	28.7	72	0	20-150	30
Pyrene	ND	40.0	33.9	85	40.0	34.3	86	1	40-130	30
Azobenzene	ND	40.0	30.3	76	40.0	31.9	80	5	30-150	30
Benzo (e) pyrene	ND	40.0	32.1	80	40.0	31.2	78	3	30-150	30
Biphenyl	ND	40.0	26.2	66	40.0	25.6	64	2	30-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	12.3	61	20.0	12.7	64	40-130
2-Fluorobiphenyl	20.0	12.1	60	20.0	12.1	60	45-130
Terphenyl-d14	20.0	15.5	78	20.0	15.7	78	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-686-SA5C-SB-4.0-5.0          Date Analyzed: 05/23/12 23:47
Lab Samp ID  : E134-17                           Dilution Factor: 1
Lab File ID  : REJ529                            Matrix          : SOIL
Ext Btch ID  : SVE044S                          % Moisture     : 9.2
Calib. Ref.  : RAJ290                            Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	258	367.1	70.4	40-130
2-FLUOROBIPHENYL	220	367.1	59.9	45-130
TERPHENYL-D14	284	367.1	77.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-686-SA5C-SB-9.0-10.0         Date Analyzed: 05/24/12 00:06
Lab Samp ID  : E134-19                          Dilution Factor: 1
Lab File ID  : REJ530                           Matrix          : SOIL
Ext Btch ID  : SVE044S                          % Moisture     : 9.0
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	237	366.3	64.8	40-130
2-FLUOROBIPHENYL	202	366.3	55.1	45-130
TERPHENYL-D14	262	366.3	71.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 11:50
Sample ID:   SL-739-SA5C-SB-0.0-0.5           Date Analyzed: 05/24/12 00:25
Lab Samp ID: E134-26                           Dilution Factor: 1
Lab File ID: REJ531                             Matrix          : SOIL
Ext Btch ID: SVE044S                            % Moisture     : 7.6
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	256	360.7	70.9	40-130
2-FLUOROBIPHENYL	225	360.7	62.4	45-130
TERPHENYL-D14	282	360.7	78.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 11:50
Sample ID:   SL-739-SA5C-SB-4.0-5.0           Date Analyzed: 05/24/12 00:44
Lab Samp ID: E134-27                           Dilution Factor: 1
Lab File ID: REJ532                             Matrix          : SOIL
Ext Btch ID: SVE044S                            % Moisture     : 10.6
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	213	372.8	57.0	40-130
2-FLUOROBIPHENYL	178	372.8	47.6	45-130
TERPHENYL-D14	225	372.8	60.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 11:50
Sample ID:   SL-739-SA5C-SB-9.0-10.0           Date Analyzed: 05/24/12 01:03
Lab Samp ID: E134-29                            Dilution Factor: 1
Lab File ID: REJ533                              Matrix          : SOIL
Ext Btch ID: SVE044S                             % Moisture     : 9.9
Calib. Ref.: RAJ290                              Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	215	369.9	58.2	40-130
2-FLUOROBIPHENYL	174	369.9	47.0	45-130
TERPHENYL-D14	254	369.9	68.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E134                          Date Extracted: 05/23/12 11:50
Sample ID    : MBLK1S                          Date Analyzed: 05/23/12 20:38
Lab Samp ID  : SVE044SB                       Dilution Factor: 1
Lab File ID  : REJ519                          Matrix          : SOIL
Ext Btch ID  : SVE044S                        % Moisture     : NA
Calib. Ref.  : RAJ290                          Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	243	333.3	73.0	40-130
2-FLUOROBIPHENYL	234	333.3	70.3	45-130
TERPHENYL-D14	273	333.3	81.8	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E134  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE044SB SVE044SL SVE044SC  
LAB FILE ID: REJ519 REJ517 REJ518  
DATE EXTRACTED: 05/23/1211:50 05/23/1211:50 05/23/1211:50 DATE COLLECTED: NA  
DATE ANALYZED: 05/23/1220:38 05/23/1220:01 05/23/1220:20 DATE RECEIVED: 05/23/12  
PREP. BATCH: SVE044S SVE044S SVE044S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	282	84	333	305	92	8	10-130	50
Acenaphthylene	ND	333	309	93	333	337	101	9	20-130	50
Anthracene	ND	333	268	80	333	295	89	10	20-130	50
Benzo (a) anthracene	ND	333	289	87	333	317	95	9	30-130	50
Benzo (a) pyrene	ND	333	318	95	333	344	103	8	30-130	50
Benzo (b) fluoranthene	ND	333	330	99	333	359	108	8	40-130	50
Benzo (k) fluoranthene	ND	333	338	101	333	371	111	9	30-140	50
Benzo (g, h, i) perylene	ND	333	367	110	333	388	116	5	30-140	50
Chrysene	ND	333	296	89	333	321	96	8	30-140	50
Dibenzo (a, h) anthracene	ND	333	362	109	333	383	115	6	40-140	50
Fluoranthene	ND	333	294	88	333	332	100	12	30-130	50
Fluorene	ND	333	288	86	333	314	94	9	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	354	106	333	375	112	6	20-160	50
Naphthalene	ND	333	275	83	333	297	89	8	10-130	50
Phenanthrene	ND	333	276	83	333	303	91	9	20-130	50
2-Methylnaphthalene	ND	333	289	87	333	313	94	8	30-150	50
1-Methylnaphthalene	ND	333	291	87	333	316	95	8	30-150	50
N-Nitrosodimethylamine	ND	333	264	79	333	287	86	9	30-150	50
Pyrene	ND	333	285	86	333	323	97	12	20-150	50
Azobenzene	ND	333	267	80	333	295	88	10	30-150	50
Benzo (e) pyrene	ND	333	279	84	333	309	93	10	30-150	50
Biphenyl	ND	333	237	71	333	261	78	9	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	231	69	333	250	75	40-130
2-Fluorobiphenyl	333	224	67	333	243	73	45-130
Terphenyl-d14	333	262	79	333	288	87	45-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

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=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 02:11
Sample ID    : EB1-051712                       Date Analyzed: 05/23/12 02:11
Lab Samp ID  : E134-01                           Dilution Factor: 1
Lab File ID  : EE21055A                         Matrix          : WATER
Ext Btch ID  : VG39E13                          % Moisture     : NA
Calib. Ref.  : EE21047A                         Instrument ID   : GCT039
=====
    
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	23J	50	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	35.0	40.00	87.4	60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/17/12
Project    : SSFL PHASE 3                       Date Received: 05/17/12
Batch No.  : 12E134                             Date Extracted: 05/23/12 02:55
Sample ID  : EB2-051712                         Date Analyzed: 05/23/12 02:55
Lab Samp ID: E134-02                             Dilution Factor: 1
Lab File ID: EE21056A                           Matrix          : WATER
Ext Btch ID: VG39E13                             % Moisture     : NA
Calib. Ref.: EE21047A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	26J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	34.8	40.00	86.9 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 03:38
Sample ID    : TB-051712                        Date Analyzed: 05/23/12 03:38
Lab Samp ID  : E134-31                          Dilution Factor: 1
Lab File ID  : EE21057A                         Matrix          : WATER
Ext Btch ID  : VG39E13                          % Moisture      : NA
Calib. Ref.  : EE21047A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	26J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	34.5	40.00	86.3 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/22/12
Batch No.  : 12E134                             Date Extracted: 05/22/12 23:18
Sample ID  : MBLK1W                             Date Analyzed: 05/22/12 23:18
Lab Samp ID: VG39E13Q                           Dilution Factor: 1
Lab File ID: EE21051A                           Matrix          : WATER
Ext Btch ID: VG39E13                             % Moisture     : NA
Calib. Ref.: EE21047A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	34.1	40.00	85.2 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E134  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39E13Q VG39E13L VG39E13C  
LAB FILE ID: EE21051A EE21048A EE21049A  
DATE EXTRACTED: 05/22/1223:18 05/22/1221:09 05/22/1221:52 DATE COLLECTED: NA  
DATE ANALYZED: 05/22/1223:18 05/22/1221:09 05/22/1221:52 DATE RECEIVED: 05/22/12  
PREP. BATCH: VG39E13 VG39E13 VG39E13  
CALIB. REF: EE21047A EE21047A EE21047A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	421	84	500	425	85	1	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	42.4	106	40.0	41.6	104	60-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/21/12 22:51
Sample ID:   SL-735-SA5C-SB-5.0                 Date Analyzed: 05/21/12 22:51
Lab Samp ID: E134-04                             Dilution Factor: 0.84
Lab File ID: EE21017A                            Matrix          : SOIL
Ext Btch ID: GME015S                             % Moisture     : 9.6
Calib. Ref.: EE21013A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.93	0.46
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.55	1.858	83.4 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/21/12 17:02

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/21/12 23:35
Sample ID:   SL-735-SA5C-SB-10.0                Date Analyzed: 05/21/12 23:35
Lab Samp ID: E134-06                             Dilution Factor: 0.97
Lab File ID: EE21018A                            Matrix          : SOIL
Ext Btch ID: GME015S                             % Moisture     : 9.9
Calib. Ref.: EE21013A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.54
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.80	2.153	83.4 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/21/12 17:02

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 00:18
Sample ID:   SL-736-SA5C-SB-5.0                 Date Analyzed: 05/22/12 00:18
Lab Samp ID: E134-09                             Dilution Factor: 0.95
Lab File ID: EE21019A                           Matrix          : SOIL
Ext Btch ID: GME015S                             % Moisture     : 8.0
Calib. Ref.: EE21013A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.71	2.065	83.0 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/21/12 17:02

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 01:01
Sample ID:   SL-736-SA5C-SB-10.0                Date Analyzed: 05/22/12 01:01
Lab Samp ID: E134-11                             Dilution Factor: 0.95
Lab File ID: EE21020A                            Matrix          : SOIL
Ext Btch ID: GME015S                             % Moisture     : 12.2
Calib. Ref.: EE21013A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.54
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.76	2.164	81.5 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/21/12 17:02

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 01:45
Sample ID:   SL-737-SA5C-SB-5.0                 Date Analyzed: 05/22/12 01:45
Lab Samp ID: E134-14                             Dilution Factor: 0.93
Lab File ID: EE21021A                            Matrix          : SOIL
Ext Btch ID: GME015S                             % Moisture     : 6.4
Calib. Ref.: EE21013A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.99	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.67	1.987	84.0 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/21/12 17:02

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 02:28
Sample ID:   SL-737-SA5C-SB-10.0                Date Analyzed: 05/22/12 02:28
Lab Samp ID: E134-16                            Dilution Factor: 0.89
Lab File ID: EE21022A                           Matrix          : SOIL
Ext Btch ID: GME015S                             % Moisture     : 12.4
Calib. Ref.: EE21013A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.63	2.032	80.2 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/21/12 17:02

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                       Date Received: 05/17/12
Batch No.    : 12E134                             Date Extracted: 05/22/12 03:11
Sample ID    : SL-686-SA5C-SB-5.0                Date Analyzed: 05/22/12 03:11
Lab Samp ID  : E134-18                            Dilution Factor: 0.96
Lab File ID  : EE21023A                           Matrix          : SOIL
Ext Btch ID  : GME015S                             % Moisture      : 10.0
Calib. Ref.  : EE21013A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.53

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.77	2.133	82.8	70-140

RL : Reporting Limit  
 Methanol Extraction: 05/21/12 17:02

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 04:38
Sample ID:   SL-686-SA5C-SB-10.0                Date Analyzed: 05/22/12 04:38
Lab Samp ID: E134-20                             Dilution Factor: 0.85
Lab File ID: EE21025A                           Matrix          : SOIL
Ext Btch ID: GME015S                             % Moisture     : 10.2
Calib. Ref.: EE21024A                           Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.95	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.57	1.893	82.8 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/21/12 17:02

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 05:21
Sample ID:   SL-738-SA5C-SB-5.0                 Date Analyzed: 05/22/12 05:21
Lab Samp ID: E134-23                             Dilution Factor: 0.82
Lab File ID: EE21026A                           Matrix          : SOIL
Ext Btch ID: GME015S                             % Moisture     : 11.0
Calib. Ref.: EE21024A                           Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.92	0.46
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.53	1.843	83.2 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/21/12 17:02

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 06:04
Sample ID:   SL-738-SA5C-SB-10.0               Date Analyzed: 05/22/12 06:04
Lab Samp ID: E134-25                            Dilution Factor: 0.88
Lab File ID: EE21027A                           Matrix          : SOIL
Ext Btch ID: GME015S                             % Moisture     : 12.2
Calib. Ref.: EE21024A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.64	2.005	81.6 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/21/12 17:02

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 06:47
Sample ID:   SL-739-SA5C-SB-5.0                 Date Analyzed: 05/22/12 06:47
Lab Samp ID: E134-28                             Dilution Factor: 0.82
Lab File ID: EE21028A                           Matrix          : SOIL
Ext Btch ID: GME015S                             % Moisture     : 11.2
Calib. Ref.: EE21024A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.92	0.46
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.55	1.847	83.7 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/21/12 17:02

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 07:30
Sample ID    : SL-739-SA5C-SB-10.0             Date Analyzed: 05/22/12 07:30
Lab Samp ID  : E134-30                          Dilution Factor: 0.86
Lab File ID  : EE21029A                        Matrix          : SOIL
Ext Btch ID  : GME015S                         % Moisture     : 11.9
Calib. Ref.  : EE21024A                       Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.98	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.62	1.952	83.2 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/21/12 17:02

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/22/12
Batch No.  : 12E134                             Date Extracted: 05/22/12 09:40
Sample ID  : MBLK1S                             Date Analyzed: 05/22/12 09:40
Lab Samp ID: GME015SQ                           Dilution Factor: 1
Lab File ID: EE21032A                           Matrix          : SOIL
Ext Btch ID: GME015S                             % Moisture     : NA
Calib. Ref.: EE21024A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.75	2.000	87.7 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E134  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GME015SQ GME015SL GME015SC  
LAB FILE ID: EE21032A EE21015A EE21016A  
DATE EXTRACTED: 05/22/1209:40 05/21/1221:25 05/21/1222:08 DATE COLLECTED: NA  
DATE ANALYZED: 05/22/1209:40 05/21/1221:25 05/21/1222:08 DATE RECEIVED: 05/21/12  
PREP. BATCH: GME015S GME015S GME015S  
CALIB. REF: EE21024A EE21013A EE21013A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	21.4	85	25.0	21.7	87	1	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.18	109	2.00	2.14	107	60-130

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/21/12 11:10
Sample ID    : EB1-051712                       Date Analyzed: 05/22/12 16:19
Lab Samp ID  : E134-01                           Dilution Factor: 1.03
Lab File ID  : LE22018A                         Matrix          : WATER
Ext Btch ID  : DSE024W                          % Moisture     : NA
Calib. Ref. : LE22010A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.052
EFH(C12-C14)	ND	0.10	0.052
EFH(C15-C20)	ND	0.10	0.052
EFH(C21-C30)	ND	0.10	0.052
EFH(C30-C40)	ND	0.10	0.052
TOTAL EFH(C8-C40)	ND	0.10	0.052

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.786	1.030	76.3	40-130
HEXACOSANE	0.212	0.2575	82.4	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/21/12 11:10
Sample ID    : EB2-051712                       Date Analyzed: 05/22/12 16:36
Lab Samp ID  : E134-02                           Dilution Factor: 1.02
Lab File ID  : LE22019A                         Matrix          : WATER
Ext Btch ID  : DSE024W                          % Moisture     : NA
Calib. Ref.  : LE22010A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.051
EFH(C12-C14)	ND	0.10	0.051
EFH(C15-C20)	ND	0.10	0.051
EFH(C21-C30)	ND	0.10	0.051
EFH(C30-C40)	ND	0.10	0.051
TOTAL EFH(C8-C40)	ND	0.10	0.051

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.783	1.020	76.8	40-130
HEXACOSANE	0.206	0.2550	80.7	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E134                           Date Extracted: 05/21/12 11:10
Sample ID    : MBLK1W                           Date Analyzed: 05/22/12 15:28
Lab Samp ID  : DSE024WB                         Dilution Factor: 1
Lab File ID  : LE22015A                        Matrix          : WATER
Ext Btch ID  : DSE024W                          % Moisture      : NA
Calib. Ref.  : LE22010A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.780	1.000	78.0	40-130
HEXACOSANE	0.206	0.2500	82.5	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E134  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSE024WB DSE024WL DSE024WC  
LAB FILE ID: LE22015A LE22016A LE22017A  
DATE EXTRACTED: 05/21/1211:10 05/21/1211:10 05/21/1211:10 DATE COLLECTED: NA  
DATE ANALYZED: 05/22/1215:28 05/22/1215:45 05/22/1216:02 DATE RECEIVED: 05/21/12  
PREP. BATCH: DSE024W DSE024W DSE024W  
CALIB. REF: LE22010A LE22010A LE22010A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.81	96	5.00	5.07	101	5	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.722	72	1.00	0.812	81	40-130
Hexacosane	0.250	0.202	81	0.250	0.212	85	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                       Date Received: 05/17/12
Batch No.    : 12E134                             Date Extracted: 05/22/12 10:30
Sample ID:   SL-735-SA5C-SB-4.0-5.0             Date Analyzed: 05/22/12 18:52
Lab Samp ID: E134-03                             Dilution Factor: 1
Lab File ID: LE22027A                            Matrix          : SOIL
Ext Btch ID: DSE026S                             % Moisture     : 9.0
Calib. Ref.: LE22022A                            Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.8	109.9	69.0	50-150
HEXACOSANE	21.9	27.47	79.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID:   SL-735-SA5C-SB-9.0-10.0           Date Analyzed: 05/22/12 19:08
Lab Samp ID: E134-05                             Dilution Factor: 1
Lab File ID: LE22028A                           Matrix          : SOIL
Ext Btch ID: DSE026S                             % Moisture     : 10.2
Calib. Ref.: LE22022A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.8	111.4	67.2	50-150
HEXACOSANE	21.2	27.84	76.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID:   SL-736-SA5C-SB-4.0-5.0           Date Analyzed: 05/22/12 19:26
Lab Samp ID: E134-08                           Dilution Factor: 1
Lab File ID: LE22029A                          Matrix          : SOIL
Ext Btch ID: DSE026S                            % Moisture     : 7.6
Calib. Ref.: LE22022A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.7	108.2	64.4	50-150
HEXACOSANE	20.5	27.06	75.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID    : SL-736-SA5C-SB-9.0-10.0         Date Analyzed: 05/22/12 19:43
Lab Samp ID  : E134-10                           Dilution Factor: 1
Lab File ID  : LE22030A                          Matrix          : SOIL
Ext Btch ID  : DSE026S                           % Moisture     : 11.2
Calib. Ref.  : LE22022A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.2	112.6	66.8	50-150
HEXACOSANE	21.6	28.15	76.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID:   SL-737-SA5C-SB-4.0-5.0            Date Analyzed: 05/22/12 20:00
Lab Samp ID: E134-13                            Dilution Factor: 1
Lab File ID: LE22031A                           Matrix          : SOIL
Ext Btch ID: DSE026S                             % Moisture     : 8.3
Calib. Ref.: LE22022A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.2	109.1	66.2	50-150
HEXACOSANE	20.1	27.26	73.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID:   SL-737-SA5C-SB-9.0-10.0           Date Analyzed: 05/22/12 21:41
Lab Samp ID: E134-15                             Dilution Factor: 1
Lab File ID: LE22037A                           Matrix          : SOIL
Ext Btch ID: DSE026S                             % Moisture     : 10.1
Calib. Ref.: LE22034A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	3.8J	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	3.8J	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.9	111.2	68.2	50-150
HEXACOSANE	21.7	27.81	78.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID    : SL-686-SA5C-SB-4.0-5.0          Date Analyzed: 05/22/12 20:17
Lab Samp ID  : E134-17                          Dilution Factor: 1
Lab File ID  : LE22032A                         Matrix          : SOIL
Ext Btch ID  : DSE026S                          % Moisture     : 9.2
Calib. Ref.  : LE22022A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.0	110.1	69.0	50-150
HEXACOSANE	21.2	27.53	77.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID:   SL-686-SA5C-SB-9.0-10.0           Date Analyzed: 05/22/12 20:33
Lab Samp ID: E134-19                             Dilution Factor: 1
Lab File ID: LE22033A                           Matrix          : SOIL
Ext Btch ID: DSE026S                             % Moisture     : 9.0
Calib. Ref.: LE22022A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.5	109.9	66.0	50-150
HEXACOSANE	20.7	27.47	75.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID:   SL-738-SA5C-SB-0.0-0.5           Date Analyzed: 05/22/12 23:40
Lab Samp ID: E134-21                           Dilution Factor: 1
Lab File ID: LE22044A                          Matrix          : SOIL
Ext Btch ID: DSE026S                            % Moisture     : 8.3
Calib. Ref.: LE22034A                          Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	29	5.5	2.7
EFH(C30-C40)	35	11	5.5
TOTAL EFH(C8-C40)	64	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.4	109.1	67.3	50-150
HEXACOSANE	23.2	27.26	85.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID    : SL-738-SA5C-SB-4.0-5.0          Date Analyzed: 05/22/12 21:58
Lab Samp ID  : E134-22                           Dilution Factor: 1
Lab File ID  : LE22038A                         Matrix          : SOIL
Ext Btch ID  : DSE026S                          % Moisture     : 10.9
Calib. Ref. : LE22034A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	10	5.6	2.8
EFH(C30-C40)	9.4J	11	5.6
TOTAL EFH(C8-C40)	19	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.3	112.2	68.8	50-150
HEXACOSANE	23.3	28.06	82.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID    : SL-738-SA5C-SB-9.0-10.0         Date Analyzed: 05/22/12 22:15
Lab Samp ID  : E134-24                           Dilution Factor: 1
Lab File ID  : LE22039A                          Matrix          : SOIL
Ext Btch ID  : DSE026S                           % Moisture     : 11.2
Calib. Ref. : LE22034A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	13	5.6	2.8
EFH(C30-C40)	13	11	5.6
TOTAL EFH(C8-C40)	26	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.7	112.6	66.3	50-150
HEXACOSANE	22.8	28.15	81.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID:   SL-739-SA5C-SB-0.0-0.5            Date Analyzed: 05/22/12 22:32
Lab Samp ID: E134-26                             Dilution Factor: 1
Lab File ID: LE22040A                           Matrix          : SOIL
Ext Btch ID: DSE026S                             % Moisture     : 7.6
Calib. Ref.: LE22034A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	10	5.4	2.7
EFH(C30-C40)	9.7J	11	5.4
TOTAL EFH(C8-C40)	20	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.1	108.2	67.5	50-150
HEXACOSANE	21.2	27.06	78.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID:   SL-739-SA5C-SB-4.0-5.0           Date Analyzed: 05/22/12 23:23
Lab Samp ID: E134-27                           Dilution Factor: 1
Lab File ID: LE22043A                          Matrix          : SOIL
Ext Btch ID: DSE026S                           % Moisture     : 10.6
Calib. Ref.: LE22034A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	9.5	5.6	2.8
EFH(C30-C40)	7.4J	11	5.6
TOTAL EFH(C8-C40)	17	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.2	111.9	69.9	50-150
HEXACOSANE	23.2	27.96	83.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID:   SL-739-SA5C-SB-9.0-10.0           Date Analyzed: 05/22/12 21:24
Lab Samp ID: E134-29                            Dilution Factor: 1
Lab File ID: LE22036A                          Matrix          : SOIL
Ext Btch ID: DSE026S                           % Moisture     : 9.9
Calib. Ref.: LE22034A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.5	111.0	69.8	50-150
HEXACOSANE	21.1	27.75	76.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E134                           Date Extracted: 05/22/12 10:30
Sample ID    : MBLK1S                           Date Analyzed: 05/22/12 18:01
Lab Samp ID  : DSE026SB                         Dilution Factor: 1
Lab File ID  : LE22024A                         Matrix          : SOIL
Ext Btch ID  : DSE026S                          % Moisture     : NA
Calib. Ref.  : LE22022A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.2	100.0	72.2	50-150
HEXACOSANE	19.8	25.00	79.1	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E134  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE026SB DSE026SL DSE026SC  
LAB FILE ID: LE22024A LE22025A LE22026A  
DATE EXTRACTED: 05/22/1210:30 05/22/1210:30 05/22/1210:30 DATE COLLECTED: NA  
DATE ANALYZED: 05/22/1218:01 05/22/1218:18 05/22/1218:35 DATE RECEIVED: 05/22/12  
PREP. BATCH: DSE026S DSE026S DSE026S  
CALIB. REF: LE22022A LE22022A LE22022A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	520	104	500	492	98	6	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	80.4	80	100	74.4	74	50-150
Hexacosane	25.0	21.0	84	25.0	19.7	79	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E134  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 7.6  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-739-SA5C-SB-0.0-0.5  
LAB SAMP ID: E134-26 E134-26M E134-26S  
LAB FILE ID: LE22040A LE22041A LE22042A  
DATE EXTRACTED: 05/22/1210:30 05/22/1210:30 05/22/1210:30 DATE COLLECTED: 05/17/12  
DATE ANALYZED: 05/22/1222:32 05/22/1222:49 05/22/1223:06 DATE RECEIVED: 05/17/12  
PREP. BATCH: DSE026S DSE026S DSE026S  
CALIB. REF: LE22034A LE22034A LE22034A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	19.7	541	538	96	541	518	92	4	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	108	73.7	68	108	78.1	72	50-150
Hexacosane	27.1	21.7	80	27.1	21.5	79	50-150

METHOD 3520C/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/21/12 10:30
Sample ID    : EB1-051712                       Date Analyzed: 05/23/12 14:05
Lab Samp ID  : E134-01                          Dilution Factor: 1.12
Lab File ID  : SE22055A                         Matrix          : WATER
Ext Btch ID  : CPE028W                          % Moisture     : NA
Calib. Ref.  : SE22044A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.1	0.56   0.56
AROCLOR 1221	(ND)   ND	1.1	0.56   0.56
AROCLOR 1232	(ND)   ND	1.1	0.56   0.56
AROCLOR 1242	(ND)   ND	1.1	0.56   0.56
AROCLOR 1248	(ND)   ND	1.1	0.56   0.56
AROCLOR 1254	(ND)   ND	1.1	0.56   0.56
AROCLOR 1260	(ND)   ND	1.1	0.56   0.56
AROCLOR 1262	(ND)   ND	1.1	0.56   0.56
AROCLOR 1268	(ND)   ND	1.1	0.56   0.56
AROCLOR 5432	(ND)   ND	2.2	1.1   1.1
AROCLOR 5442	(ND)   ND	2.2	1.1   1.1
AROCLOR 5460	(ND)   ND	2.2	1.1   1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(0.4756)   0.5588	0.4480	(106)   125*	45-120
TETRACHLORO-M-XYLENE	0.4166   (0.4563)	0.4480	93.0   (102)	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/21/12 10:30
Sample ID    : EB2-051712                       Date Analyzed: 05/23/12 14:40
Lab Samp ID  : E134-02                          Dilution Factor: 1.05
Lab File ID  : SE22056A                         Matrix          : WATER
Ext Btch ID  : CPE028W                          % Moisture     : NA
Calib. Ref.  : SE22044A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.52   0.52
AROCLOR 1221	(ND)   ND	1.0	0.52   0.52
AROCLOR 1232	(ND)   ND	1.0	0.52   0.52
AROCLOR 1242	(ND)   ND	1.0	0.52   0.52
AROCLOR 1248	(ND)   ND	1.0	0.52   0.52
AROCLOR 1254	(ND)   ND	1.0	0.52   0.52
AROCLOR 1260	(ND)   ND	1.0	0.52   0.52
AROCLOR 1262	(ND)   ND	1.0	0.52   0.52
AROCLOR 1268	(ND)   ND	1.0	0.52   0.52
AROCLOR 5432	(ND)   ND	2.1	1.0   1.0
AROCLOR 5442	(ND)   ND	2.1	1.0   1.0
AROCLOR 5460	(ND)   ND	2.1	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(0.4532)   0.5285	0.4200	(108)   126*	45-120
TETRACHLORO-M-XYLENE	0.3737   (0.4181)	0.4200	89.0   (99.5)	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E134                           Date Extracted: 05/21/12 10:30
Sample ID    : MBLK1W                           Date Analyzed: 05/23/12 12:23
Lab Samp ID  : 60E028WB                         Dilution Factor: 1
Lab File ID  : SE22052A                         Matrix          : WATER
Ext Btch ID  : CPE028W                          % Moisture     : NA
Calib. Ref.  : SE22044A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.4197)   0.4952	0.4000	(105)   124*	45-120
TETRACHLORO-M-XYLENE	0.3651   (0.4355)	0.4000	91.3   (109)	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E134  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: 60E028WB 60E028WX 60E028WY  
LAB FILE ID: SE22052A SE22053A SE22054A  
DATE EXTRACTED: 05/21/1210:30 05/21/1210:30 05/21/1210:30 DATE COLLECTED: NA  
DATE ANALYZED: 05/23/1212:23 05/23/1212:57 05/23/1213:31 DATE RECEIVED: 05/21/12  
PREP. BATCH: CPE028W CPE028W CPE028W  
CALIB. REF: SE22044A SE22044A SE22044A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	5.45   (6.20)	109   (124)	5.00	5.47   (6.13)	109   (123)	0   (1)	50-130	30
Aroclor 1260	(ND)   ND	5.00	5.88   (6.42)	118   (128)	5.00	5.92   (6.43)	118   (129)	1   (0)	60-150	30
Aroclor 5460	(ND)   ND	2.50	3.04   (3.09)	122   (124)	2.50	3.15   (3.16)	126   (126)	4   (2)	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	(0.4391)   0.5075	(110)   127*	0.4000	(0.4416)   0.5165	(110)   129*	45-120
Tetrachloro-m-xylene	0.4000	0.4157   (0.4722)	104   (118)	0.4000	0.3825   (0.4755)	95.6   (119)	30-140

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 15:29
Sample ID    : SL-735-SA5C-SB-4.0-5.0          Date Analyzed: 05/25/12 01:59
Lab Samp ID  : E134-03                           Dilution Factor: 1
Lab File ID  : SE24040A                          Matrix          : SOIL
Ext Btch ID  : CPE033S                           % Moisture     : 9.0
Calib. Ref.  : SE24037A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	15.54   (17.49)	14.65	106   (119)	45-120
TETRACHLORO-M-XYLENE	(15.01)   14.90	14.65	(102)   102	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 15:29
Sample ID:   SL-735-SA5C-SB-9.0-10.0           Date Analyzed: 05/25/12 02:33
Lab Samp ID: E134-05                             Dilution Factor: 1
Lab File ID: SE24041A                           Matrix          : SOIL
Ext Btch ID: CPE033S                             % Moisture     : 10.2
Calib. Ref.: SE24037A                           Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	15.19   (16.98)	14.84	102   (114)	45-120
TETRACHLORO-M-XYLENE	(13.98)   13.97	14.84	(94.2)   94.1	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 15:29
Sample ID    : SL-737-SA5C-SB-4.0-5.0          Date Analyzed: 05/25/12 03:07
Lab Samp ID  : E134-13                           Dilution Factor: 1
Lab File ID  : SE24042A                          Matrix          : SOIL
Ext Btch ID  : CPE033S                           % Moisture     : 8.3
Calib. Ref.  : SE24037A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	15.38   (17.11)	14.54	106   (118)	45-120
TETRACHLORO-M-XYLENE	14.64   (15.03)	14.54	101   (103)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 15:29
Sample ID    : SL-737-SA5C-SB-9.0-10.0         Date Analyzed: 05/25/12 03:41
Lab Samp ID  : E134-15                          Dilution Factor: 1
Lab File ID  : SE24043A                         Matrix          : SOIL
Ext Btch ID  : CPE033S                          % Moisture     : 10.1
Calib. Ref. : SE24037A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	15.27   (17.43)	14.83	103   (118)	45-120
TETRACHLORO-M-XYLENE	(15.28)   15.10	14.83	(103)   102	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/17/12
Project     : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.   : 12E134                           Date Extracted: 05/23/12 15:29
Sample ID:  SL-686-SA5C-SB-4.0-5.0           Date Analyzed: 05/25/12 04:15
Lab Samp ID: E134-17                           Dilution Factor: 1
Lab File ID: SE24044A                          Matrix          : SOIL
Ext Btch ID: CPE033S                           % Moisture     : 9.2
Calib. Ref.: SE24037A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIIPHENYL	15.70   (17.47)	14.68	107   (119)	45-120
TETRACHLORO-M-XYLENE	14.45   (15.03)	14.68	98.5   (102)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                       Date Received: 05/17/12
Batch No.    : 12E134                             Date Extracted: 05/23/12 15:29
Sample ID    : SL-686-SA5C-SB-9.0-10.0           Date Analyzed: 05/25/12 04:50
Lab Samp ID  : E134-19                             Dilution Factor: 1
Lab File ID  : SE24045A                            Matrix          : SOIL
Ext Btch ID  : CPE033S                             % Moisture     : 9.0
Calib. Ref.  : SE24037A                            Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	15.93   (17.62)	14.65	109   (120)	45-120
TETRACHLORO-M-XYLENE	14.81   (14.99)	14.65	101   (102)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 15:29
Sample ID    : SL-738-SA5C-SB-0.0-0.5          Date Analyzed: 05/25/12 05:24
Lab Samp ID  : E134-21                          Dilution Factor: 1
Lab File ID  : SE24046A                         Matrix          : SOIL
Ext Btch ID  : CPE033S                          % Moisture     : 8.3
Calib. Ref.  : SE24037A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	12.56   (15.27)	14.54	86.4   (105)	45-120
TETRACHLORO-M-XYLENE	15.86   (16.33)	14.54	109   (112)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 15:29
Sample ID:   SL-738-SA5C-SB-4.0-5.0           Date Analyzed: 05/25/12 05:58
Lab Samp ID: E134-22                           Dilution Factor: 1
Lab File ID: SE24047A                          Matrix          : SOIL
Ext Btch ID: CPE033S                            % Moisture     : 10.9
Calib. Ref.: SE24037A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	14.25   (16.23)	14.96	95.3   (108)	45-120
TETRACHLORO-M-XYLENE	(15.48)   15.34	14.96	(103)   103	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                       Date Received: 05/17/12
Batch No.    : 12E134                             Date Extracted: 05/23/12 15:29
Sample ID    : SL-738-SA5C-SB-9.0-10.0           Date Analyzed: 05/25/12 06:32
Lab Samp ID  : E134-24                             Dilution Factor: 1
Lab File ID  : SE24048A                           Matrix          : SOIL
Ext Btch ID  : CPE033S                            % Moisture     : 11.2
Calib. Ref.  : SE24037A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.52   (15.84)	15.01	90.1   (105)	45-120
TETRACHLORO-M-XYLENE	14.12   (14.22)	15.01	94.0   (94.7)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 15:29
Sample ID    : SL-739-SA5C-SB-0.0-0.5          Date Analyzed: 05/25/12 07:07
Lab Samp ID  : E134-26                           Dilution Factor: 1
Lab File ID  : SE24049A                         Matrix          : SOIL
Ext Btch ID  : CPE033S                          % Moisture     : 7.6
Calib. Ref. : SE24037A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.64   (15.91)	14.43	94.5   (110)	45-120
TETRACHLORO-M-XYLENE	14.98   (15.21)	14.43	104   (105)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
Batch No.    : 12E134                           Date Extracted: 05/23/12 15:29
Sample ID    : SL-739-SA5C-SB-4.0-5.0          Date Analyzed: 05/25/12 07:41
Lab Samp ID  : E134-27                           Dilution Factor: 1
Lab File ID  : SE24050A                          Matrix          : SOIL
Ext Btch ID  : CPE033S                           % Moisture     : 10.6
Calib. Ref.  : SE24037A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	14.41   (16.48)	14.91	96.6   (111)	45-120
TETRACHLORO-M-XYLENE	13.92   (14.23)	14.91	93.4   (95.4)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/23/12
Batch No.    : 12E134                             Date Extracted: 05/23/12 15:29
Sample ID    : MBLK1S                             Date Analyzed: 05/24/12 16:50
Lab Samp ID  : 60E033SB                           Dilution Factor: 1
Lab File ID  : SE24024A                           Matrix          : SOIL
Ext Btch ID  : CPE033S                             % Moisture     : NA
Calib. Ref.  : SE24021A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.30)   16.09	13.33	(107)   121*	45-120
TETRACHLORO-M-XYLENE	13.54   (13.94)	13.33	102   (105)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E134  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E033SB 60E033SL 60E033SC  
LAB FILE ID: SE24024A SE24025A SE24026A  
DATE EXTRACTED: 05/23/1215:29 05/23/1215:29 05/23/1215:29 DATE COLLECTED: NA  
DATE ANALYZED: 05/24/1216:50 05/24/1217:25 05/24/1217:59 DATE RECEIVED: 05/23/12  
PREP. BATCH: CPE033S CPE033S CPE033S  
CALIB. REF: SE24021A SE24021A SE24021A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	172   (177)	103   (106)	167	173   (178)	104   (107)	1   (1)	50-130	50
Aroclor 1260	(ND)   ND	167	190   (202)	114   (121)	167	189   (203)	113   (122)	1   (0)	60-150	50
Aroclor 5460	(ND)   ND	83.3	104   (107)	125   (128)	83.3	101   (103)	121   (124)	3   (4)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(14.73)   16.63	(110)   125*	13.33	(14.78)   16.39	(111)   123*	45-120
Tetrachloro-m-xylene	13.33	13.60   (13.84)	102   (104)	13.33	13.71   (13.80)	103   (104)	10-160

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/17/12
Project    : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                           Date Extracted: 05/23/12 11:20
Sample ID: EB1-051712                         Date Analyzed: 05/25/12 16:17
Lab Samp ID: E134-01                          Dilution Factor: 1
Lab File ID: 98E11059                         Matrix          : WATER
Ext Btch ID: IME030W                          % Moisture     : NA
Calib. Ref.: 98E11054                         Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	0.0627J	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00549J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.00215	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	0.000401J	0.00100	0.000200
Potassium	0.0204J	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	0.0965J	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/17/12
Project     : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                            Date Extracted: 05/23/12 11:20
Sample ID: EB2-051712                          Date Analyzed: 05/25/12 16:21
Lab Samp ID: E134-02                            Dilution Factor: 1
Lab File ID: 98E11060                           Matrix          : WATER
Ext Btch ID: IME030W                             % Moisture     : NA
Calib. Ref.: 98E11054                           Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	0.0329J	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00570J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.000960J	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.    : 12E134                           Date Extracted: 05/23/12 11:20
Sample ID  : MBLK1W                            Date Analyzed: 05/25/12 16:03
Lab Samp ID: IME030WB                         Dilution Factor: 1
Lab File ID: 98E11056                         Matrix          : WATER
Ext Btch ID: IME030W                          % Moisture     : NA
Calib. Ref.: 98E11054                        Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E134  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IME030WB IME030WL IME030WC  
LAB FILE ID: 98E11056 98E11057 98E11061  
DATIME EXTRACTD: 05/23/1211:20 05/23/1211:20 05/23/1211:20 DATE COLLECTED: NA  
DATIME ANALYZD: 05/25/1216:03 05/25/1216:07 05/25/1216:26 DATE RECEIVED: 05/23/12  
PREP. BATCH: IME030W IME030W IME030W  
CALIB. REF: 98E11054 98E11054 98E11054

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.55	102	2.50	2.57	103	1	80-120	20
Antimony	ND	0.0250	0.0251	100	0.0250	0.0256	103	2	80-120	20
Arsenic	ND	0.0250	0.0251	100	0.0250	0.0255	102	2	80-120	20
Barium	ND	0.0250	0.0250	100	0.0250	0.0256	102	2	80-120	20
Beryllium	ND	0.0250	0.0246	98	0.0250	0.0253	101	3	80-120	20
Boron	ND	0.0250	0.0256	102	0.0250	0.0259	104	1	80-120	20
Cadmium	ND	0.0250	0.0247	99	0.0250	0.0249	100	1	80-120	20
Calcium	ND	2.50	2.65	106	2.50	2.68	107	1	80-120	20
Chromium	ND	0.0250	0.0235	94	0.0250	0.0240	96	2	80-120	20
Cobalt	ND	0.0250	0.0247	99	0.0250	0.0250	100	1	80-120	20
Copper	ND	0.0250	0.0237	95	0.0250	0.0240	96	1	80-120	20
Iron	ND	2.50	2.56	102	2.50	2.61	104	2	80-120	20
Lead	ND	0.0250	0.0249	100	0.0250	0.0252	101	1	80-120	20
Magnesium	ND	2.50	2.55	102	2.50	2.58	103	1	80-120	20
Manganese	ND	0.0250	0.0247	99	0.0250	0.0249	99	1	80-120	20
Molybdenum	ND	0.0250	0.0248	99	0.0250	0.0249	100	0	80-120	20
Nickel	ND	0.0250	0.0234	94	0.0250	0.0240	96	2	80-120	20
Potassium	ND	2.50	2.59	104	2.50	2.66	106	3	80-120	20
Selenium	ND	0.0250	0.0249	99	0.0250	0.0248	99	0	80-120	20
Silver	ND	0.0250	0.0255	102	0.0250	0.0259	103	1	80-120	20
Sodium	ND	2.50	2.55	102	2.50	2.61	105	3	80-120	20
Strontium	ND	0.0250	0.0242	97	0.0250	0.0247	99	2	80-120	20
Thallium	ND	0.0250	0.0246	98	0.0250	0.0250	100	2	80-120	20
Tin	ND	0.0250	0.0253	101	0.0250	0.0258	103	2	80-120	20
Titanium	ND	0.0250	0.0252	101	0.0250	0.0253	101	0	80-120	20
Vanadium	ND	0.0250	0.0236	94	0.0250	0.0241	96	2	80-120	20
Zinc	ND	0.0500	0.0489	98	0.0500	0.0495	99	1	80-120	20
Lithium	ND	0.0250	0.0237	95	0.0250	0.0241	97	2	80-120	20
Phosphorus	ND	0.250	0.228	91	0.250	0.229	92	0	80-120	20
Zirconium	ND	0.0250	0.0250	100	0.0250	0.0254	102	2	80-120	20

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/17/12
Project     : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID:  SL-735-SA5C-SB-4.0-5.0           Date Analyzed: 05/25/12 13:55
Lab Samp ID: E134-03                          Dilution Factor: 0.966
Lab File ID: 98E11028                        Matrix          : SOIL
Ext Btch ID: IME029S                         % Moisture     : 9.0
Calib. Ref.: 98E11018                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9720	106	12.7
Antimony	0.216J	0.531	0.106
Arsenic	3.17	0.531	0.212
Barium	101	0.531	0.212
Beryllium	0.502J	0.531	0.0531
Boron	ND	5.31	2.65
Cadmium	0.222J	0.531	0.0531
Calcium	1430	21.2	10.6
Chromium	13.7	0.531	0.212
Cobalt	5.76	0.531	0.0531
Copper	8.33	0.531	0.212
Iron	15100	106	10.6
Lead	4.48	0.531	0.106
Magnesium	2790	10.6	5.31
Manganese	287	0.531	0.265
Molybdenum	0.757	0.531	0.0531
Nickel	9.00	0.531	0.212
Potassium	2220	106	31.8
Selenium	ND	0.531	0.212
Silver	ND	0.531	0.0531
Sodium	133	106	53.1
Strontium	17.1	0.531	0.265
Thallium	0.226J	0.425	0.0531
Tin	ND	10.6	5.31
Titanium	708	1.06	0.531
Vanadium	27.7	0.531	0.0531
Zinc	35.1	5.31	1.59
Lithium	10.1	2.12	1.06
Phosphorus	157	12.7	6.37
Zirconium	ND	5.31	2.65

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/17/12
Project     : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID:  SL-735-SA5C-SB-9.0-10.0          Date Analyzed: 05/25/12 14:13
Lab Samp ID: E134-05                          Dilution Factor: 0.990
Lab File ID: 98E11032                         Matrix          : SOIL
Ext Btch ID: IME029S                          % Moisture     : 10.2
Calib. Ref.: 98E11030                         Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15000	110	13.2
Antimony	0.233J	0.551	0.110
Arsenic	4.05	0.551	0.220
Barium	89.0	0.551	0.220
Beryllium	0.772	0.551	0.0551
Boron	ND	5.51	2.76
Cadmium	0.176J	0.551	0.0551
Calcium	1790	22.0	11.0
Chromium	16.1	0.551	0.220
Cobalt	13.7	0.551	0.0551
Copper	6.20	0.551	0.220
Iron	18600	110	11.0
Lead	5.34	0.551	0.110
Magnesium	4060	11.0	5.51
Manganese	309	0.551	0.276
Molybdenum	0.824	0.551	0.0551
Nickel	10.0	0.551	0.220
Potassium	1610	110	33.1
Selenium	ND	0.551	0.220
Silver	0.0817J	0.551	0.0551
Sodium	830	110	55.1
Strontium	22.0	0.551	0.276
Thallium	0.227J	0.441	0.0551
Tin	ND	11.0	5.51
Titanium	1090	1.10	0.551
Vanadium	34.7	0.551	0.0551
Zinc	37.1	5.51	1.65
Lithium	18.8	2.20	1.10
Phosphorus	127	13.2	6.61
Zirconium	ND	5.51	2.76

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/17/12
Project     : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID:  SL-736-SA5C-SB-2.0-3.0           Date Analyzed: 05/25/12 14:17
Lab Samp ID: E134-07                          Dilution Factor: 0.966
Lab File ID: 98E11033                         Matrix          : SOIL
Ext Btch ID: IME029S                          % Moisture     : 6.9
Calib. Ref.: 98E11030                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9640	104	12.5
Antimony	0.247J	0.519	0.104
Arsenic	3.39	0.519	0.208
Barium	100	0.519	0.208
Beryllium	0.490J	0.519	0.0519
Boron	ND	5.19	2.59
Cadmium	0.270J	0.519	0.0519
Calcium	1900	20.8	10.4
Chromium	13.7	0.519	0.208
Cobalt	5.70	0.519	0.0519
Copper	10.0	0.519	0.208
Iron	15400	104	10.4
Lead	6.68	0.519	0.104
Magnesium	3100	10.4	5.19
Manganese	328	0.519	0.259
Molybdenum	0.672	0.519	0.0519
Nickel	9.33	0.519	0.208
Potassium	2750	104	31.1
Selenium	ND	0.519	0.208
Silver	ND	0.519	0.0519
Sodium	101J	104	51.9
Strontium	17.7	0.519	0.259
Thallium	0.237J	0.415	0.0519
Tin	ND	10.4	5.19
Titanium	762	1.04	0.519
Vanadium	27.4	0.519	0.0519
Zinc	41.4	5.19	1.56
Lithium	12.0	2.08	1.04
Phosphorus	215	12.5	6.23
Zirconium	ND	5.19	2.59

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/17/12
Project     : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                            Date Extracted: 05/23/12 12:15
Sample ID:  SL-736-SA5C-SB-4.0-5.0           Date Analyzed: 05/25/12 14:22
Lab Samp ID: E134-08                          Dilution Factor: 0.971
Lab File ID: 98E11034                        Matrix          : SOIL
Ext Btch ID: IME029S                         % Moisture     : 7.6
Calib. Ref.: 98E11030                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11900	105	12.6
Antimony	0.258J	0.525	0.105
Arsenic	3.80	0.525	0.210
Barium	114	0.525	0.210
Beryllium	0.604	0.525	0.0525
Boron	ND	5.25	2.63
Cadmium	0.205J	0.525	0.0525
Calcium	1430	21.0	10.5
Chromium	15.5	0.525	0.210
Cobalt	6.58	0.525	0.0525
Copper	8.41	0.525	0.210
Iron	17100	105	10.5
Lead	5.23	0.525	0.105
Magnesium	3330	10.5	5.25
Manganese	331	0.525	0.263
Molybdenum	0.742	0.525	0.0525
Nickel	9.53	0.525	0.210
Potassium	2010	105	31.5
Selenium	ND	0.525	0.210
Silver	ND	0.525	0.0525
Sodium	153	105	52.5
Strontium	17.6	0.525	0.263
Thallium	0.264J	0.420	0.0525
Tin	ND	10.5	5.25
Titanium	819	1.05	0.525
Vanadium	31.1	0.525	0.0525
Zinc	38.0	5.25	1.58
Lithium	12.7	2.10	1.05
Phosphorus	136	12.6	6.31
Zirconium	ND	5.25	2.63

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.     : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID   : SL-736-SA5C-SB-9.0-10.0         Date Analyzed: 05/25/12 14:26
Lab Samp ID : E134-10                          Dilution Factor: 0.971
Lab File ID : 98E11035                         Matrix          : SOIL
Ext Btch ID : IME029S                          % Moisture     : 11.9
Calib. Ref. : 98E11030                         Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14700	110	13.2
Antimony	0.213J	0.551	0.110
Arsenic	4.03	0.551	0.220
Barium	89.0	0.551	0.220
Beryllium	0.612	0.551	0.0551
Boron	ND	5.51	2.76
Cadmium	0.144J	0.551	0.0551
Calcium	1270	22.0	11.0
Chromium	17.1	0.551	0.220
Cobalt	4.02	0.551	0.0551
Copper	7.49	0.551	0.220
Iron	18600	110	11.0
Lead	5.26	0.551	0.110
Magnesium	4130	11.0	5.51
Manganese	159	0.551	0.276
Molybdenum	0.772	0.551	0.0551
Nickel	8.66	0.551	0.220
Potassium	1520	110	33.1
Selenium	ND	0.551	0.220
Silver	ND	0.551	0.0551
Sodium	1080	110	55.1
Strontium	19.2	0.551	0.276
Thallium	0.227J	0.441	0.0551
Tin	ND	11.0	5.51
Titanium	1030	1.10	0.551
Vanadium	35.4	0.551	0.0551
Zinc	35.5	5.51	1.65
Lithium	17.9	2.20	1.10
Phosphorus	113	13.2	6.61
Zirconium	ND	5.51	2.76

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/17/12
Project     : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID:  SL-737-SA5C-SB-2.5-3.5           Date Analyzed: 05/25/12 14:31
Lab Samp ID: E134-12                          Dilution Factor: 0.980
Lab File ID: 98E11036                         Matrix          : SOIL
Ext Btch ID: IME029S                          % Moisture     : 9.6
Calib. Ref.: 98E11030                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13900	108	13.0
Antimony	0.217J	0.542	0.108
Arsenic	4.06	0.542	0.217
Barium	85.8	0.542	0.217
Beryllium	0.533J	0.542	0.0542
Boron	ND	5.42	2.71
Cadmium	0.173J	0.542	0.0542
Calcium	3100	21.7	10.8
Chromium	14.9	0.542	0.217
Cobalt	5.02	0.542	0.0542
Copper	6.76	0.542	0.217
Iron	18600	108	10.8
Lead	6.50	0.542	0.108
Magnesium	4270	10.8	5.42
Manganese	247	0.542	0.271
Molybdenum	0.469J	0.542	0.0542
Nickel	8.88	0.542	0.217
Potassium	2720	108	32.5
Selenium	ND	0.542	0.217
Silver	ND	0.542	0.0542
Sodium	102J	108	54.2
Strontium	17.4	0.542	0.271
Thallium	0.244J	0.434	0.0542
Tin	ND	10.8	5.42
Titanium	996	1.08	0.542
Vanadium	31.0	0.542	0.0542
Zinc	52.8	5.42	1.63
Lithium	21.9	2.17	1.08
Phosphorus	294	13.0	6.50
Zirconium	ND	5.42	2.71

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/17/12
Project     : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID:  SL-737-SA5C-SB-4.0-5.0           Date Analyzed: 05/25/12 14:36
Lab Samp ID: E134-13                          Dilution Factor: 0.990
Lab File ID: 98E11037                         Matrix          : SOIL
Ext Btch ID: IME029S                          % Moisture     : 8.3
Calib. Ref.: 98E11030                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11700	108	13.0
Antimony	0.251J	0.540	0.108
Arsenic	4.25	0.540	0.216
Barium	101	0.540	0.216
Beryllium	0.652	0.540	0.0540
Boron	ND	5.40	2.70
Cadmium	0.171J	0.540	0.0540
Calcium	1530	21.6	10.8
Chromium	15.7	0.540	0.216
Cobalt	7.54	0.540	0.0540
Copper	7.19	0.540	0.216
Iron	18300	108	10.8
Lead	5.71	0.540	0.108
Magnesium	3330	10.8	5.40
Manganese	358	0.540	0.270
Molybdenum	0.775	0.540	0.0540
Nickel	9.39	0.540	0.216
Potassium	1840	108	32.4
Selenium	ND	0.540	0.216
Silver	ND	0.540	0.0540
Sodium	112	108	54.0
Strontium	16.8	0.540	0.270
Thallium	0.255J	0.432	0.0540
Tin	ND	10.8	5.40
Titanium	800	1.08	0.540
Vanadium	33.9	0.540	0.0540
Zinc	36.5	5.40	1.62
Lithium	12.7	2.16	1.08
Phosphorus	134	13.0	6.48
Zirconium	ND	5.40	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/17/12
Project     : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID:  SL-737-SA5C-SB-9.0-10.0          Date Analyzed: 05/25/12 14:40
Lab Samp ID: E134-15                          Dilution Factor: 0.966
Lab File ID: 98E11038                         Matrix          : SOIL
Ext Btch ID: IME029S                          % Moisture     : 10.1
Calib. Ref.: 98E11030                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12800	107	12.9
Antimony	0.224J	0.537	0.107
Arsenic	3.74	0.537	0.215
Barium	88.3	0.537	0.215
Beryllium	0.515J	0.537	0.0537
Boron	ND	5.37	2.69
Cadmium	0.126J	0.537	0.0537
Calcium	1750	21.5	10.7
Chromium	15.7	0.537	0.215
Cobalt	3.90	0.537	0.0537
Copper	6.65	0.537	0.215
Iron	18100	107	10.7
Lead	4.99	0.537	0.107
Magnesium	3970	10.7	5.37
Manganese	161	0.537	0.269
Molybdenum	0.801	0.537	0.0537
Nickel	7.92	0.537	0.215
Potassium	1810	107	32.2
Selenium	ND	0.537	0.215
Silver	ND	0.537	0.0537
Sodium	484	107	53.7
Strontium	17.5	0.537	0.269
Thallium	0.199J	0.430	0.0537
Tin	ND	10.7	5.37
Titanium	1040	1.07	0.537
Vanadium	34.3	0.537	0.0537
Zinc	36.4	5.37	1.61
Lithium	14.9	2.15	1.07
Phosphorus	180	12.9	6.45
Zirconium	ND	5.37	2.69

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.     : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID   : SL-686-SA5C-SB-4.0-5.0          Date Analyzed: 05/25/12 14:45
Lab Samp ID : E134-17                           Dilution Factor: 0.985
Lab File ID : 98E11039                          Matrix          : SOIL
Ext Btch ID : IME029S                           % Moisture     : 9.2
Calib. Ref. : 98E11030                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14900	108	13.0
Antimony	0.220J	0.542	0.108
Arsenic	4.72	0.542	0.217
Barium	92.6	0.542	0.217
Beryllium	0.717	0.542	0.0542
Boron	ND	5.42	2.71
Cadmium	0.158J	0.542	0.0542
Calcium	1470	21.7	10.8
Chromium	18.4	0.542	0.217
Cobalt	6.10	0.542	0.0542
Copper	5.89	0.542	0.217
Iron	19200	108	10.8
Lead	6.27	0.542	0.108
Magnesium	4080	10.8	5.42
Manganese	210	0.542	0.271
Molybdenum	0.683	0.542	0.0542
Nickel	9.22	0.542	0.217
Potassium	1480	108	32.5
Selenium	ND	0.542	0.217
Silver	0.0811J	0.542	0.0542
Sodium	509	108	54.2
Strontium	21.1	0.542	0.271
Thallium	0.245J	0.434	0.0542
Tin	ND	10.8	5.42
Titanium	1020	1.08	0.542
Vanadium	36.2	0.542	0.0542
Zinc	36.4	5.42	1.63
Lithium	20.6	2.17	1.08
Phosphorus	101	13.0	6.51
Zirconium	ND	5.42	2.71

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/17/12
Project     : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID   : SL-686-SA5C-SB-9.0-10.0        Date Analyzed: 05/25/12 14:49
Lab Samp ID: E134-19                          Dilution Factor: 0.985
Lab File ID: 98E11040                         Matrix          : SOIL
Ext Btch ID: IME029S                          % Moisture     : 9.0
Calib. Ref.: 98E11030                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10800	108	13.0
Antimony	0.159J	0.541	0.108
Arsenic	5.10	0.541	0.216
Barium	53.0	0.541	0.216
Beryllium	0.393J	0.541	0.0541
Boron	ND	5.41	2.71
Cadmium	0.120J	0.541	0.0541
Calcium	1040	21.6	10.8
Chromium	11.8	0.541	0.216
Cobalt	3.12	0.541	0.0541
Copper	5.27	0.541	0.216
Iron	15800	108	10.8
Lead	4.43	0.541	0.108
Magnesium	3370	10.8	5.41
Manganese	123	0.541	0.271
Molybdenum	0.424J	0.541	0.0541
Nickel	5.68	0.541	0.216
Potassium	1500	108	32.5
Selenium	ND	0.541	0.216
Silver	ND	0.541	0.0541
Sodium	353	108	54.1
Strontium	10.5	0.541	0.271
Thallium	0.219J	0.433	0.0541
Tin	ND	10.8	5.41
Titanium	862	1.08	0.541
Vanadium	26.6	0.541	0.0541
Zinc	33.4	5.41	1.62
Lithium	12.2	2.16	1.08
Phosphorus	77.3	13.0	6.49
Zirconium	ND	5.41	2.71

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.     : 12E134                            Date Extracted: 05/23/12 12:15
Sample ID   : SL-738-SA5C-SB-0.0-0.5          Date Analyzed: 05/25/12 15:08
Lab Samp ID : E134-21                           Dilution Factor: 0.980
Lab File ID : 98E11044                          Matrix          : SOIL
Ext Btch ID : IME029S                           % Moisture     : 8.3
Calib. Ref. : 98E11042                          Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11100	107	12.8
Antimony	0.218J	0.534	0.107
Arsenic	6.31	0.534	0.214
Barium	77.0	0.534	0.214
Beryllium	0.460J	0.534	0.0534
Boron	ND	5.34	2.67
Cadmium	0.171J	0.534	0.0534
Calcium	2880	21.4	10.7
Chromium	13.5	0.534	0.214
Cobalt	4.73	0.534	0.0534
Copper	6.27	0.534	0.214
Iron	17000	107	10.7
Lead	7.01	0.534	0.107
Magnesium	3960	10.7	5.34
Manganese	232	0.534	0.267
Molybdenum	0.470J	0.534	0.0534
Nickel	7.96	0.534	0.214
Potassium	2430	107	32.1
Selenium	ND	0.534	0.214
Silver	ND	0.534	0.0534
Sodium	93.8J	107	53.4
Strontium	15.8	0.534	0.267
Thallium	0.227J	0.427	0.0534
Tin	ND	10.7	5.34
Titanium	860	1.07	0.534
Vanadium	28.3	0.534	0.0534
Zinc	48.3	5.34	1.60
Lithium	19.2	2.14	1.07
Phosphorus	299	12.8	6.41
Zirconium	ND	5.34	2.67

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.     : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID   : SL-738-SA5C-SB-4.0-5.0          Date Analyzed: 05/25/12 15:12
Lab Samp ID : E134-22                          Dilution Factor: 0.985
Lab File ID : 98E11045                        Matrix          : SOIL
Ext Btch ID : IME029S                         % Moisture     : 10.9
Calib. Ref. : 98E11042                        Instrument ID  : T-198
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12200	111	13.3
Antimony	0.197J	0.553	0.111
Arsenic	3.95	0.553	0.221
Barium	135	0.553	0.221
Beryllium	0.648	0.553	0.0553
Boron	ND	5.53	2.76
Cadmium	0.200J	0.553	0.0553
Calcium	1500	22.1	11.1
Chromium	15.7	0.553	0.221
Cobalt	6.45	0.553	0.0553
Copper	8.39	0.553	0.221
Iron	17700	111	11.1
Lead	5.35	0.553	0.111
Magnesium	3430	11.1	5.53
Manganese	325	0.553	0.276
Molybdenum	0.799	0.553	0.0553
Nickel	9.85	0.553	0.221
Potassium	1950	111	33.2
Selenium	ND	0.553	0.221
Silver	ND	0.553	0.0553
Sodium	206	111	55.3
Strontium	18.3	0.553	0.276
Thallium	0.270J	0.442	0.0553
Tin	ND	11.1	5.53
Titanium	849	1.11	0.553
Vanadium	32.3	0.553	0.0553
Zinc	39.3	5.53	1.66
Lithium	13.1	2.21	1.11
Phosphorus	137	13.3	6.63
Zirconium	ND	5.53	2.76

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/17/12
Project    : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID  : SL-738-SA5C-SB-9.0-10.0         Date Analyzed: 05/25/12 15:17
Lab Samp ID: E134-24                           Dilution Factor: 0.976
Lab File ID: 98E11046                           Matrix          : SOIL
Ext Btch ID: IME029S                            % Moisture      : 11.2
Calib. Ref.: 98E11042                           Instrument ID   : T-198
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12300	110	13.2
Antimony	0.176J	0.550	0.110
Arsenic	3.42	0.550	0.220
Barium	81.7	0.550	0.220
Beryllium	0.500J	0.550	0.0550
Boron	ND	5.50	2.75
Cadmium	0.137J	0.550	0.0550
Calcium	1200	22.0	11.0
Chromium	16.1	0.550	0.220
Cobalt	4.19	0.550	0.0550
Copper	5.30	0.550	0.220
Iron	17200	110	11.0
Lead	5.15	0.550	0.110
Magnesium	3470	11.0	5.50
Manganese	189	0.550	0.275
Molybdenum	0.719	0.550	0.0550
Nickel	7.62	0.550	0.220
Potassium	1170	110	33.0
Selenium	ND	0.550	0.220
Silver	ND	0.550	0.0550
Sodium	1120	110	55.0
Strontium	17.9	0.550	0.275
Thallium	0.204J	0.440	0.0550
Tin	ND	11.0	5.50
Titanium	928	1.10	0.550
Vanadium	31.9	0.550	0.0550
Zinc	33.7	5.50	1.65
Lithium	14.4	2.20	1.10
Phosphorus	92.8	13.2	6.59
Zirconium	ND	5.50	2.75

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/17/12
Project    : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID  : SL-739-SA5C-SB-0.0-0.5          Date Analyzed: 05/25/12 15:21
Lab Samp ID: E134-26                           Dilution Factor: 0.966
Lab File ID: 98E11047                          Matrix          : SOIL
Ext Btch ID: IME029S                            % Moisture     : 7.6
Calib. Ref.: 98E11042                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10300	105	12.5
Antimony	0.175J	0.523	0.105
Arsenic	3.45	0.523	0.209
Barium	63.2	0.523	0.209
Beryllium	0.412J	0.523	0.0523
Boron	ND	5.23	2.61
Cadmium	0.133J	0.523	0.0523
Calcium	2280	20.9	10.5
Chromium	12.4	0.523	0.209
Cobalt	4.27	0.523	0.0523
Copper	5.19	0.523	0.209
Iron	17000	105	10.5
Lead	3.82	0.523	0.105
Magnesium	4080	10.5	5.23
Manganese	223	0.523	0.261
Molybdenum	0.357J	0.523	0.0523
Nickel	7.31	0.523	0.209
Potassium	2540	105	31.4
Selenium	ND	0.523	0.209
Silver	ND	0.523	0.0523
Sodium	82.6J	105	52.3
Strontium	11.2	0.523	0.261
Thallium	0.205J	0.418	0.0523
Tin	ND	10.5	5.23
Titanium	862	1.05	0.523
Vanadium	25.7	0.523	0.0523
Zinc	74.4	5.23	1.57
Lithium	23.7	2.09	1.05
Phosphorus	317	12.5	6.27
Zirconium	ND	5.23	2.61

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/17/12
Project     : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.    : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID:  SL-739-SA5C-SB-4.0-5.0           Date Analyzed: 05/25/12 15:26
Lab Samp ID: E134-27                          Dilution Factor: 0.985
Lab File ID: 98E11048                         Matrix          : SOIL
Ext Btch ID: IME029S                          % Moisture     : 10.6
Calib. Ref.: 98E11042                         Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12600	110	13.2
Antimony	0.172J	0.551	0.110
Arsenic	3.45	0.551	0.220
Barium	114	0.551	0.220
Beryllium	0.584	0.551	0.0551
Boron	ND	5.51	2.75
Cadmium	0.171J	0.551	0.0551
Calcium	1480	22.0	11.0
Chromium	14.6	0.551	0.220
Cobalt	6.26	0.551	0.0551
Copper	7.00	0.551	0.220
Iron	16800	110	11.0
Lead	4.97	0.551	0.110
Magnesium	3330	11.0	5.51
Manganese	323	0.551	0.275
Molybdenum	0.654	0.551	0.0551
Nickel	8.87	0.551	0.220
Potassium	1840	110	33.1
Selenium	ND	0.551	0.220
Silver	ND	0.551	0.0551
Sodium	146	110	55.1
Strontium	16.9	0.551	0.275
Thallium	0.254J	0.441	0.0551
Tin	ND	11.0	5.51
Titanium	878	1.10	0.551
Vanadium	29.9	0.551	0.0551
Zinc	37.7	5.51	1.65
Lithium	13.7	2.20	1.10
Phosphorus	114	13.2	6.61
Zirconium	ND	5.51	2.75

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/17/12
Project      : SSFL PHASE 3                     Date Received: 05/17/12
SDG NO.     : 12E134                           Date Extracted: 05/23/12 12:15
Sample ID   : SL-739-SA5C-SB-9.0-10.0         Date Analyzed: 05/25/12 13:45
Lab Samp ID : E134-29                          Dilution Factor: 0.966
Lab File ID : 98E11026                        Matrix          : SOIL
Ext Btch ID : IME029S                         % Moisture     : 9.9
Calib. Ref. : 98E11018                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16400	107	12.9
Antimony	0.236J	0.536	0.107
Arsenic	4.15	0.536	0.214
Barium	82.6	0.536	0.214
Beryllium	0.635	0.536	0.0536
Boron	ND	5.36	2.68
Cadmium	0.163J	0.536	0.0536
Calcium	1420	21.4	10.7
Chromium	18.5	0.536	0.214
Cobalt	4.20	0.536	0.0536
Copper	6.84	0.536	0.214
Iron	19400	107	10.7
Lead	5.27	0.536	0.107
Magnesium	4070	10.7	5.36
Manganese	158	0.536	0.268
Molybdenum	0.716	0.536	0.0536
Nickel	9.54	0.536	0.214
Potassium	1400	107	32.2
Selenium	ND	0.536	0.214
Silver	ND	0.536	0.0536
Sodium	1270	107	53.6
Strontium	20.7	0.536	0.268
Thallium	0.275J	0.429	0.0536
Tin	ND	10.7	5.36
Titanium	961	1.07	0.536
Vanadium	34.7	0.536	0.0536
Zinc	38.6	5.36	1.61
Lithium	20.4	2.14	1.07
Phosphorus	89.8	12.9	6.43
Zirconium	ND	5.36	2.68

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/23/12
SDG NO.    : 12E134                             Date Extracted: 05/23/12 12:15
Sample ID  : MBLK1S                             Date Analyzed: 05/25/12 13:18
Lab Samp ID: IME029SB                           Dilution Factor: 1
Lab File ID: 98E11020                           Matrix          : SOIL
Ext Btch ID: IME029S                             % Moisture      : NA
Calib. Ref.: 98E11018                           Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E134  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME029SB IME029SL IME029SC  
LAB FILE ID: 98E11020 98E11021 98E11022  
DATIME EXTRACTD: 05/23/1212:15 05/23/1212:15 05/23/1212:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/25/1213:18 05/25/1213:23 05/25/1213:27 DATE RECEIVED: 05/23/12  
PREP. BATCH: IME029S IME029S IME029S  
CALIB. REF: 98E11018 98E11018 98E11018

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2580	103	2500	2430	97	6	80-120	20
Antimony	ND	25.0	25.1	100	25.0	24.5	98	2	80-120	20
Arsenic	ND	25.0	24.5	98	25.0	24.1	96	2	80-120	20
Barium	ND	25.0	25.0	100	25.0	24.6	98	2	80-120	20
Beryllium	ND	25.0	25.0	100	25.0	24.4	97	3	80-120	20
Boron	ND	25.0	25.5	102	25.0	24.9	100	2	80-120	20
Cadmium	ND	25.0	24.4	98	25.0	23.9	96	2	80-120	20
Calcium	ND	2500	2590	103	2500	2450	98	5	80-120	20
Chromium	ND	25.0	24.3	97	25.0	23.7	95	2	80-120	20
Cobalt	ND	25.0	25.2	101	25.0	24.4	98	3	80-120	20
Copper	ND	25.0	24.1	96	25.0	23.4	94	3	80-120	20
Iron	ND	2500	2550	102	2500	2430	97	5	80-120	20
Lead	ND	25.0	24.8	99	25.0	24.3	97	2	80-120	20
Magnesium	ND	2500	2570	103	2500	2430	97	5	80-120	20
Manganese	ND	25.0	25.5	102	25.0	24.6	98	3	80-120	20
Molybdenum	ND	25.0	24.8	99	25.0	24.4	98	2	80-120	20
Nickel	ND	25.0	24.0	96	25.0	23.4	94	2	80-120	20
Potassium	ND	2500	2630	105	2500	2490	99	6	80-120	20
Selenium	ND	25.0	24.0	96	25.0	23.1	93	4	80-120	20
Silver	ND	25.0	24.6	98	25.0	24.3	97	1	80-120	20
Sodium	ND	2500	2520	101	2500	2420	97	4	80-120	20
Strontium	ND	25.0	25.0	100	25.0	24.6	98	2	80-120	20
Thallium	ND	25.0	24.9	99	25.0	24.4	98	2	80-120	20
Tin	ND	25.0	27.3	109	25.0	26.8	107	2	80-120	20
Titanium	ND	25.0	25.4	102	25.0	24.7	99	3	80-120	20
Vanadium	ND	25.0	24.3	97	25.0	23.7	95	3	80-120	20
Zinc	ND	50.0	48.1	96	50.0	47.1	94	2	80-120	20
Lithium	ND	25.0	25.1	100	25.0	24.9	100	1	80-120	20
Phosphorus	ND	250	245	98	250	237	95	3	80-120	20
Zirconium	ND	25.0	24.7	99	25.0	24.4	98	1	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E134  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 9.9  
DILTN FACTR: 0.966 0.985 0.962  
SAMPLE ID: SL-739-SA5C-SB-9.0-10.0  
CONTROL NO.: E134-29 E134-29M E134-29S  
LAB FILE ID: 98E11026 98E11023 98E11024  
DATIME EXTRACTD: 05/23/1212:15 05/23/1212:15 05/23/1212:15 DATE COLLECTED: 05/17/12  
DATIME ANALYZD: 05/25/1213:45 05/25/1213:32 05/25/1213:36 DATE RECEIVED: 05/17/12  
PREP. BATCH: IME029S IME029S IME029S  
CALIB. REF: 98E11018 98E11018 98E11018

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	16400	2730	19500	113	2670	18300	73*	6	75-125	20
Antimony	0.236J	27.3	23.4	85	26.7	23.4	87	0	75-125	20
Arsenic	4.15	27.3	28.4	89	26.7	28.3	91	0	75-125	20
Barium	82.6	27.3	109	96	26.7	108	96	1	75-125	20
Beryllium	0.635	27.3	27.6	99	26.7	27.3	100	1	75-125	20
Boron	ND	27.3	27.7	101	26.7	27.1	102	2	75-125	20
Cadmium	0.163J	27.3	26.4	96	26.7	26.2	97	1	75-125	20
Calcium	1420	2730	3910	91	2670	3850	91	2	75-125	20
Chromium	18.5	27.3	42.0	86	26.7	42.0	88	0	75-125	20
Cobalt	4.20	27.3	28.0	87	26.7	27.8	89	0	75-125	20
Copper	6.84	27.3	29.6	83	26.7	29.3	84	1	75-125	20
Iron	19400	2730	21000	60*	2670	21000	60*	0	75-125	20
Lead	5.27	27.3	31.8	97	26.7	31.2	97	2	75-125	20
Magnesium	4070	2730	6420	86	2670	6420	88	0	75-125	20
Manganese	158	27.3	169	40*	26.7	170	46*	1	75-125	20
Molybdenum	0.716	27.3	27.1	97	26.7	26.8	98	1	75-125	20
Nickel	9.54	27.3	32.3	83	26.7	32.3	85	0	75-125	20
Potassium	1400	2730	4020	96	2670	3990	97	1	75-125	20
Selenium	ND	27.3	25.0	91	26.7	24.7	93	1	75-125	20
Silver	ND	27.3	26.8	98	26.7	26.4	99	1	75-125	20
Sodium	1270	2730	3710	89	2670	3640	89	2	75-125	20
Strontium	20.7	27.3	46.3	94	26.7	45.7	94	1	75-125	20
Thallium	0.275J	27.3	26.8	97	26.7	26.3	98	2	75-125	20
Tin	ND	27.3	30.7	112	26.7	30.4	114	1	75-125	20
Titanium	961	27.3	948	-47*	26.7	948	-47*	0	75-125	20
Vanadium	34.7	27.3	57.2	82	26.7	56.7	82	1	75-125	20
Zinc	38.6	54.7	87.2	89	53.4	86.4	90	1	75-125	20
Lithium	20.4	27.3	48.9	104	26.7	46.6	98	5	75-125	20
Phosphorus	89.8	273	310	81	267	308	82	1	75-125	20
Zirconium	ND	27.3	25.1	92	26.7	24.9	93	1	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E134  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 9.9  
DILTN FACTR: 0.966 0.966  
SAMPLE ID: SL-739-SA5C-SB-9.0-10.0  
CONTROL NO.: E134-29 E134-29A  
LAB FILE ID: 98E11026 98E11025  
DATIME EXTRACTD: 05/23/1212:15 05/23/1212:15 DATE COLLECTED: 05/17/12  
DATIME ANALYZD: 05/25/1213:45 05/25/1213:41 DATE RECEIVED: 05/17/12  
PREP. BATCH: IME029S IME029S  
CALIB. REF: 98E11018 98E11018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	16400	2680	19200	104	75-125
Antimony	0.236J	26.8	27.1	100	75-125
Arsenic	4.15	26.8	28.7	92	75-125
Barium	82.6	26.8	113	114	75-125
Beryllium	0.635	26.8	27.0	98	75-125
Boron	ND	26.8	28.1	105	75-125
Cadmium	0.163J	26.8	26.3	97	75-125
Calcium	1420	2680	4080	99	75-125
Chromium	18.5	26.8	42.2	88	75-125
Cobalt	4.20	26.8	27.9	89	75-125
Copper	6.84	26.8	29.6	85	75-125
Iron	19400	2680	22000	99	75-125
Lead	5.27	26.8	31.1	96	75-125
Magnesium	4070	2680	6680	98	75-125
Manganese	158	26.8	182	90	75-125
Molybdenum	0.716	26.8	27.3	99	75-125
Nickel	9.54	26.8	32.4	85	75-125
Potassium	1400	2680	4180	104	75-125
Selenium	ND	26.8	24.9	93	75-125
Silver	ND	26.8	26.3	98	75-125
Sodium	1270	2680	3800	94	75-125
Strontium	20.7	26.8	46.7	97	75-125
Thallium	0.275J	26.8	26.1	96	75-125
Tin	ND	26.8	30.4	114	75-125
Titanium	961	26.8	987	98	75-125
Vanadium	34.7	26.8	58.9	90	75-125
Zinc	38.6	53.6	87.0	90	75-125
Lithium	20.4	26.8	47.4	101	75-125
Phosphorus	89.8	268	328	89	75-125
Zirconium	ND	26.8	29.0	108	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E134  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 9.9  
DILUTION FACTOR: 0.966 4.83  
SAMPLE ID: SL-739-SA5C-SB SL-739-SA5C-SB  
EMAX SAMP ID: E134-29 E134-29J  
LAB FILE ID: 98E11026 98E11027  
DATE EXTRACTED: 05/23/1212:15 05/23/1212:15 DATE COLLECTED: 05/17/12  
DATE ANALYZED: 05/25/1213:45 05/25/1213:50 DATE RECEIVED: 05/17/12  
PREP. BATCH: IME029S IME029S  
CALIB. REF: 98E11018 98E11018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	16400	17800	9	10
Antimony	0.236J	ND	NA	10
Arsenic	4.15	4.44	7	10
Barium	82.6	82.2	0	10
Beryllium	0.635	0.686J	8	10
Boron	ND	ND	0	10
Cadmium	0.163J	ND	NA	10
Calcium	1420	1560	10	10
Chromium	18.5	19.9	8	10
Cobalt	4.20	4.62	10	10
Copper	6.84	7.67	12*	10
Iron	19400	21100	9	10
Lead	5.27	5.39	2	10
Magnesium	4070	4430	9	10
Manganese	158	174	11*	10
Molybdenum	0.716	0.720J	NA	10
Nickel	9.54	10.4	9	10
Potassium	1400	1510	8	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	1270	1420	12*	10
Strontium	20.7	20.5	1	10
Thallium	0.275J	0.285J	NA	10
Tin	ND	ND	0	10
Titanium	961	1020	6	10
Vanadium	34.7	37.1	7	10
Zinc	38.6	40.6	5	10
Lithium	20.4	19.8	3	10
Phosphorus	89.8	97.4	8	10
Zirconium	ND	ND	0	10

METHOD 7470A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E134  
=====

Matrix : WATER  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGE020WB	ND	1	NA	0.000500	0.000100	05/23/1215:21	05/23/1211:30	M47E018010	M47E018008	HGE020W	NA	05/23/12
LCS1W	HGE020WL	0.00550	1	NA	0.000500	0.000100	05/23/1215:23	05/23/1211:30	M47E018011	M47E018008	HGE020W	NA	05/23/12
LCD1W	HGE020WC	0.00550	1	NA	0.000500	0.000100	05/23/1215:25	05/23/1211:30	M47E018012	M47E018008	HGE020W	NA	05/23/12
EB2-051712	E134-02	ND	1	NA	0.000500	0.000100	05/23/1216:00	05/23/1211:30	M47E018028	M47E018020	HGE020W	05/17/12	05/17/12
EB1-051712	E134-01	ND	1	NA	0.000500	0.000100	05/23/1216:15	05/23/1211:30	M47E018032	M47E018029	HGE020W	05/17/12	05/17/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E134  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGE020WB HGE020WL HGE020WC  
LAB FILE ID: M47E018010 M47E018011 M47E018012  
DATIME EXTRCTD: 05/23/1211:30 05/23/1211:30 05/23/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/23/1215:21 05/23/1215:23 05/23/1215:25 DATE RECEIVED: 05/23/12  
PREP. BATCH: HGE020W HGE020W HGE020W  
CALIB. REF: M47E018008 M47E018008 M47E018008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.0055	110	.005	.0055	110	0	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E134

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS			RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection	Received
		(mg/kg)	DLF	MOIST								DATETIME	DATETIME
MBLK1S	HGE021SB	ND	1	NA	0.100	0.0500	05/24/1217:36	05/24/1213:30	M47E019010	M47E019008	HGE021S	NA	05/24/12
LCS1S	HGE021SL	0.887	1	NA	0.100	0.0500	05/24/1217:38	05/24/1213:30	M47E019011	M47E019008	HGE021S	NA	05/24/12
LCD1S	HGE021SC	0.880	1	NA	0.100	0.0500	05/24/1217:41	05/24/1213:30	M47E019012	M47E019008	HGE021S	NA	05/24/12
SL-735-SA5C-SB-4.0-5.0AS	E134-03A	0.921	1.00	9.0	0.110	0.0549	05/24/1217:43	05/24/1213:30	M47E019013	M47E019008	HGE021S	05/17/12	05/17/12
SL-735-SA5C-SB-4.0-5.0	E134-03	ND	1.00	9.0	0.110	0.0549	05/24/1217:46	05/24/1213:30	M47E019014	M47E019008	HGE021S	05/17/12	05/17/12
SL-735-SA5C-SB-4.0-5.0DL	E134-03J	ND	5.00	9.0	0.549	0.275	05/24/1217:48	05/24/1213:30	M47E019015	M47E019008	HGE021S	05/17/12	05/17/12
SL-735-SA5C-SB-4.0-5.0MS	E134-03M	0.976	0.990	9.0	0.109	0.0544	05/24/1217:50	05/24/1213:30	M47E019016	M47E019008	HGE021S	05/17/12	05/17/12
SL-735-SA5C-SB-4.0-5.0MSD	E134-03S	0.995	1.00	9.0	0.110	0.0549	05/24/1217:53	05/24/1213:30	M47E019017	M47E019008	HGE021S	05/17/12	05/17/12
SL-735-SA5C-SB-9.0-10.0	E134-05	ND	0.990	10.2	0.110	0.0551	05/24/1217:55	05/24/1213:30	M47E019018	M47E019008	HGE021S	05/17/12	05/17/12
SL-736-SA5C-SB-2.0-3.0	E134-07	ND	0.993	6.9	0.107	0.0533	05/24/1217:58	05/24/1213:30	M47E019019	M47E019008	HGE021S	05/17/12	05/17/12
SL-736-SA5C-SB-4.0-5.0	E134-08	ND	0.990	7.6	0.107	0.0536	05/24/1218:04	05/24/1213:30	M47E019022	M47E019020	HGE021S	05/17/12	05/17/12
SL-736-SA5C-SB-9.0-10.0	E134-10	ND	0.988	11.9	0.112	0.0561	05/24/1218:06	05/24/1213:30	M47E019023	M47E019020	HGE021S	05/17/12	05/17/12
SL-737-SA5C-SB-2.5-3.5	E134-12	ND	1.00	9.6	0.111	0.0553	05/24/1218:08	05/24/1213:30	M47E019024	M47E019020	HGE021S	05/17/12	05/17/12
SL-737-SA5C-SB-4.0-5.0	E134-13	ND	0.987	8.3	0.108	0.0538	05/24/1218:11	05/24/1213:30	M47E019025	M47E019020	HGE021S	05/17/12	05/17/12
SL-737-SA5C-SB-9.0-10.0	E134-15	ND	0.998	10.1	0.111	0.0555	05/24/1218:14	05/24/1213:30	M47E019026	M47E019020	HGE021S	05/17/12	05/17/12
SL-686-SA5C-SB-4.0-5.0	E134-17	ND	0.990	9.2	0.109	0.0545	05/24/1218:16	05/24/1213:30	M47E019027	M47E019020	HGE021S	05/17/12	05/17/12
SL-686-SA5C-SB-9.0-10.0	E134-19	ND	1.00	9.0	0.110	0.0549	05/24/1218:18	05/24/1213:30	M47E019028	M47E019020	HGE021S	05/17/12	05/17/12
SL-738-SA5C-SB-0.0-0.5	E134-21	0.0673J	0.998	8.3	0.109	0.0544	05/24/1218:20	05/24/1213:30	M47E019029	M47E019020	HGE021S	05/17/12	05/17/12
SL-738-SA5C-SB-4.0-5.0	E134-22	ND	0.990	10.9	0.111	0.0556	05/24/1218:22	05/24/1213:30	M47E019030	M47E019020	HGE021S	05/17/12	05/17/12
SL-738-SA5C-SB-9.0-10.0	E134-24	ND	0.990	11.2	0.111	0.0557	05/24/1218:24	05/24/1213:30	M47E019031	M47E019020	HGE021S	05/17/12	05/17/12
SL-739-SA5C-SB-0.0-0.5	E134-26	ND	0.987	7.6	0.107	0.0534	05/24/1218:30	05/24/1213:30	M47E019034	M47E019032	HGE021S	05/17/12	05/17/12
SL-739-SA5C-SB-4.0-5.0	E134-27	ND	1.00	10.6	0.112	0.0559	05/24/1218:32	05/24/1213:30	M47E019035	M47E019032	HGE021S	05/17/12	05/17/12
SL-739-SA5C-SB-9.0-10.0	E134-29	ND	0.992	9.9	0.110	0.0550	05/24/1218:34	05/24/1213:30	M47E019036	M47E019032	HGE021S	05/17/12	05/17/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E134  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE021SB HGE021SL HGE021SC  
LAB FILE ID: M47E019010 M47E019011 M47E019012  
DATIME EXTRCTD: 05/24/1213:30 05/24/1213:30 05/24/1213:30 DATE COLLECTED: NA  
DATIME ANALYZD: 05/24/1217:36 05/24/1217:38 05/24/1217:41 DATE RECEIVED: 05/24/12  
PREP. BATCH: HGE021S HGE021S HGE021S  
CALIB. REF: M47E019008 M47E019008 M47E019008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.887	106	.833	.88	106	1	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E134  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 9.0  
DILTN FACTR: 1.00 0.990 1.00  
SAMPLE ID: SL-735-SA5C-SB-4.0-5.0  
CONTROL NO.: E134-03 E134-03M E134-03S  
LAB FILE ID: M47E019014 M47E019016 M47E019017  
DATIME EXTRCTD: 05/24/1213:30 05/24/1213:30 05/24/1213:30 DATE COLLECTED: 05/17/12  
DATIME ANALYZD: 05/24/1217:46 05/24/1217:50 05/24/1217:53 DATE RECEIVED: 05/17/12  
PREP. BATCH: HGE021S HGE021S HGE021S  
CALIB. REF: M47E019008 M47E019008 M47E019008

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.906	.976	108	.915	.995	109	1	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E134  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 9.0  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-735-SA5C-SB-4.0-5.0  
CONTROL NO.: E134-03 E134-03A  
LAB FILE ID: M47E019014 M47E019013  
DATIME EXTRCTD: 05/24/1213:30 05/24/1213:30 DATE COLLECTED: 05/17/12  
DATIME ANALYZD: 05/24/1217:46 05/24/1217:43 DATE RECEIVED: 05/17/12  
PREP. BATCH: HGE021S HGE021S  
CALIB. REF: M47E019008 M47E019008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.915	.921	101	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E134  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	9.0
DILUTION FACTOR:	1.00	5.00		
SAMPLE ID:	SL-735-SA5C-SB-4.0-	SL-735-SA5C-SB-4.0-		
EMAX SAMP ID:	E134-03	E134-03J		
LAB FILE ID:	M47E019014	M47E019015		
DATE EXTRACTED:	05/24/1213:30	05/24/1213:30	DATE COLLECTED:	05/17/12
DATE ANALYZED:	05/24/1217:46	05/24/1217:48	DATE RECEIVED:	05/17/12
PREP. BATCH:	HGE021S	HGE021S		
CALIB. REF:	M47E019008	M47E019008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----	-----	-----	-----	-----
Mercury	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E134  
 =====

Matrix : WATER  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLE003WB	ND	1	NA	0.200	0.100	05/29/1213:01	NA	NE29004	NE29003	PLE003W	NA	NA
LCS1W	PLE003WL	0.955	1	NA	0.200	0.100	05/29/1213:16	NA	NE29005	NE29003	PLE003W	NA	NA
LCD1W	PLE003WC	1.04	1	NA	0.200	0.100	05/29/1213:33	NA	NE29006	NE29003	PLE003W	NA	NA
EB1-051712	E134-01	ND	1	NA	0.200	0.100	05/29/1213:52	NA	NE29007	NE29003	PLE003W	05/17/1214:00	05/17/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E134  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLE003WB PLE003WL PLE003WC  
LAB FILE ID: NE29004 NE29005 NE29006  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/29/1213:01 05/29/1213:16 05/29/1213:33 DATE RECEIVED: NA  
PREP. BATCH: PLE003W PLE003W PLE003W  
CALIB. REF: NE29003 NE29003 NE29003

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	0.955	96	1.00	1.04	104	9	85-115	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E134  
 =====

Matrix : WATER  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCE031WB	ND	1	NA	0.200	0.100	05/17/1220:40	NA	IE17031	IE17029	HCE031W	NA	NA
MBLK1W	HCE031WQ	ND	1	NA	0.200	0.100	05/17/1220:50	NA	IE17032	IE17029	HCE031W	NA	NA
LCS1W	HCE031WL	1.97	1	NA	0.200	0.100	05/17/1221:01	NA	IE17033	IE17029	HCE031W	NA	NA
LCS1W	HCE031WX	1.98	1	NA	0.200	0.100	05/17/1221:11	NA	IE17034	IE17029	HCE031W	NA	NA
EB1-051712	E134-01	ND	1	NA	0.200	0.100	05/17/1221:42	NA	IE17037	IE17029	HCE031W	05/17/1214:00	05/17/12
EB1-051712	E134-01R	ND	1	NA	0.200	0.100	05/17/1221:53	NA	IE17038	IE17029	HCE031W	05/17/1214:00	05/17/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E134  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCE031WQ HCE031WX  
LAB FILE ID: IE17032 IE17034  
DATE EXTRACTED: NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/17/1220:50 05/17/1221:11 DATE RECEIVED: NA  
PREP. BATCH: HCE031W HCE031W  
CALIB. REF: IE17029 IE17029

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	2.00	1.98	99	80-120

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E134  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB1-051712	E134-01	6.88	1	NA	NA	NA 05/17/1219:15	NA	12PHE018W01	PHE018W	PHE018W	05/17/1214:00	05/17/12
EB1-051712DUP	E134-01D	6.91	1	NA	NA	NA 05/17/1219:18	NA	12PHE018W02	PHE018W	PHE018W	05/17/1214:00	05/17/12
EB2-051712	E134-02	6.53	1	NA	NA	NA 05/17/1219:24	NA	12PHE018W03	PHE018W	PHE018W	05/17/1214:45	05/17/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.:	12E134	DATE RECEIVED:	05/17/12
SAMPLE ID:	EB1-051712DUP	DATE EXTRACTED:	NA
CONTROL NO.:	E134-01D	DATE ANALYZED:	05/17/1219:18

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
----- pH	6.88	6.91	-0.03	0.10

METHOD 9045D  
PH

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E134

Matrix : SOIL  
Instrument ID : 53

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-735-SA5C-SB-4.0-5.0	E134-03	6.42	1	NA	NA	NA	05/18/1213:34	05/18/1211:35	12PHE019S01	PHE019S	PHE019S	05/17/1208:53	05/17/12
SL-735-SA5C-SB-9.0-10.0	E134-05	8.71	1	NA	NA	NA	05/18/1213:38	05/18/1211:35	12PHE019S02	PHE019S	PHE019S	05/17/1208:58	05/17/12
SL-736-SA5C-SB-4.0-5.0	E134-08	6.63	1	NA	NA	NA	05/18/1213:44	05/18/1211:35	12PHE019S03	PHE019S	PHE019S	05/17/1209:48	05/17/12
SL-736-SA5C-SB-9.0-10.0	E134-10	8.55	1	NA	NA	NA	05/18/1213:48	05/18/1211:35	12PHE019S04	PHE019S	PHE019S	05/17/1209:51	05/17/12
SL-737-SA5C-SB-4.0-5.0	E134-13	7.61	1	NA	NA	NA	05/18/1213:55	05/18/1211:35	12PHE019S05	PHE019S	PHE019S	05/17/1210:47	05/17/12
SL-737-SA5C-SB-9.0-10.0	E134-15	8.65	1	NA	NA	NA	05/18/1213:59	05/18/1211:35	12PHE019S06	PHE019S	PHE019S	05/17/1210:51	05/17/12
SL-686-SA5C-SB-4.0-5.0	E134-17	8.49	1	NA	NA	NA	05/18/1214:01	05/18/1211:35	12PHE019S07	PHE019S	PHE019S	05/17/1213:56	05/17/12
SL-686-SA5C-SB-9.0-10.0	E134-19	7.43	1	NA	NA	NA	05/18/1214:07	05/18/1211:35	12PHE019S08	PHE019S	PHE019S	05/17/1214:00	05/17/12
SL-738-SA5C-SB-0.0-0.5	E134-21	8.15	1	NA	NA	NA	05/18/1214:10	05/18/1211:35	12PHE019S09	PHE019S	PHE019S	05/17/1212:50	05/17/12
SL-738-SA5C-SB-4.0-5.0	E134-22	6.52	1	NA	NA	NA	05/18/1214:17	05/18/1211:35	12PHE019S10	PHE019S	PHE019S	05/17/1213:01	05/17/12
SL-738-SA5C-SB-9.0-10.0	E134-24	8.86	1	NA	NA	NA	05/18/1214:21	05/18/1211:35	12PHE019S11	PHE019S	PHE019S	05/17/1213:08	05/17/12
SL-739-SA5C-SB-0.0-0.5	E134-26	7.97	1	NA	NA	NA	05/18/1214:23	05/18/1211:35	12PHE019S12	PHE019S	PHE019S	05/17/1214:45	05/17/12
SL-739-SA5C-SB-4.0-5.0	E134-27	6.48	1	NA	NA	NA	05/18/1214:27	05/18/1211:35	12PHE019S13	PHE019S	PHE019S	05/17/1214:50	05/17/12
SL-739-SA5C-SB-9.0-10.0	E134-29	8.58	1	NA	NA	NA	05/18/1214:31	05/18/1211:35	12PHE019S14	PHE019S	PHE019S	05/17/1214:55	05/17/12
SL-739-SA5C-SB-9.0-10.0DUPE134-29D		8.60	1	NA	NA	NA	05/18/1214:32	05/18/1211:35	12PHE019S15	PHE019S	PHE019S	05/17/1214:55	05/17/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E134	DATE RECEIVED:	05/17/12
SAMPLE ID:	SL-739-SA5C-SB-9.0-10.0DUP	DATE EXTRACTED:	05/18/1211:35
CONTROL NO.:	E134-29D	DATE ANALYZED:	05/18/1214:32

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.58	8.60	-0.02	0.10

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/22/12 16:08
Sample ID:   SL-727-SA5C-SB-5.0                Date Analyzed: 05/22/12 16:08
Lab Samp ID: E155-03                           Dilution Factor: 0.83
Lab File ID: EE21041A                          Matrix          : SOIL
Ext Btch ID: GME016S                            % Moisture     : 11.6
Calib. Ref.: EE21035A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.94	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.45	1.878	77.1 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/22/12 10:37

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/22/12 18:17
Sample ID:   SL-727-SA5C-SB-10.0               Date Analyzed: 05/22/12 18:17
Lab Samp ID: E155-05                           Dilution Factor: 0.78
Lab File ID: EE21044A                          Matrix          : SOIL
Ext Btch ID: GME016S                            % Moisture     : 11.8
Calib. Ref.: EE21035A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.88	0.44
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.42	1.769	80.2 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/22/12 10:37

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/22/12 19:00
Sample ID    : SL-1027-SA5C-SB-5.0             Date Analyzed: 05/22/12 19:00
Lab Samp ID  : E155-07                         Dilution Factor: 0.84
Lab File ID  : EE21045A                       Matrix          : SOIL
Ext Btch ID  : GME016S                        % Moisture     : 11.8
Calib. Ref.  : EE21035A                       Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.95	0.48

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.53	1.905	80.4	70-140

RL : Reporting Limit  
 Methanol Extraction: 05/22/12 10:37

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/21/12
Project    : SSFL PHASE 3                       Date Received: 05/21/12
Batch No.  : 12E155                             Date Extracted: 05/22/12 19:43
Sample ID: SL-734-SA5C-SB-5.0                 Date Analyzed: 05/22/12 19:43
Lab Samp ID: E155-10                          Dilution Factor: 0.81
Lab File ID: EE21046A                         Matrix          : SOIL
Ext Btch ID: GME016S                          % Moisture     : 12.0
Calib. Ref.: EE21035A                         Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.92	0.46
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.54	1.841	83.5 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/22/12 10:37

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/21/12
Project     : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.   : 12E155                           Date Extracted: 05/24/12 00:50
Sample ID:  SL-734-SA5C-SB-10.0              Date Analyzed: 05/24/12 00:50
Lab Samp ID: E155-12                          Dilution Factor: 0.83
Lab File ID: EE23011A                         Matrix          : SOIL
Ext Btch ID: GME016S                          % Moisture     : 12.3
Calib. Ref.: EE23005A                         Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.95	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.52	1.893	80.1 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/22/12 10:37

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                       Date Received: 05/21/12
Batch No.    : 12E155                             Date Extracted: 05/24/12 01:33
Sample ID:   SL-740-SA5C-SB-10.0                 Date Analyzed: 05/24/12 01:33
Lab Samp ID: E155-14                             Dilution Factor: 0.82
Lab File ID: EE23012A                           Matrix          : SOIL
Ext Btch ID: GME016S                             % Moisture     : 12.1
Calib. Ref.: EE23005A                           Instrument ID  : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.93	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.48	1.866	79.4 70-140

RL : Reporting Limit  
Methanol Extraction: 05/22/12 10:37

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 02:16
Sample ID:   SL-728-SA5C-SB-5.0                 Date Analyzed: 05/24/12 02:16
Lab Samp ID: E155-17                             Dilution Factor: 0.8
Lab File ID: EE23013A                           Matrix          : SOIL
Ext Btch ID: GME016S                             % Moisture     : 13.3
Calib. Ref.: EE23005A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.92	0.46
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.44	1.845	78.2 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/22/12 10:37

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 02:59
Sample ID:   SL-728-SA5C-SB-10.0               Date Analyzed: 05/24/12 02:59
Lab Samp ID: E155-19                           Dilution Factor: 0.81
Lab File ID: EE23014A                           Matrix          : SOIL
Ext Btch ID: GME016S                            % Moisture     : 13.5
Calib. Ref.: EE23005A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.94	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.46	1.873	77.8 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/22/12 10:37

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 03:42
Sample ID:   SL-729-SA5C-SB-5.0                 Date Analyzed: 05/24/12 03:42
Lab Samp ID: E155-22                            Dilution Factor: 0.8
Lab File ID: EE23015A                           Matrix          : SOIL
Ext Btch ID: GME016S                             % Moisture     : 13.7
Calib. Ref.: EE23005A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.93	0.46
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.45	1.854	78.0 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/22/12 10:37

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 04:26
Sample ID:   SL-729-SA5C-SB-10.0               Date Analyzed: 05/24/12 04:26
Lab Samp ID: E155-24                           Dilution Factor: 0.78
Lab File ID: EE23016A                          Matrix          : SOIL
Ext Btch ID: GME016S                            % Moisture     : 13.8
Calib. Ref.: EE23005A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.90	0.45
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.42	1.810	78.5 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/22/12 10:37

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/22/12
Batch No.  : 12E155                             Date Extracted: 05/22/12 13:58
Sample ID : MBLK1S                              Date Analyzed: 05/22/12 13:58
Lab Samp ID: GME016SB                          Dilution Factor: 1
Lab File ID: EE21038A                          Matrix       : SOIL
Ext Btch ID: GME016S                            % Moisture   : NA
Calib. Ref.: EE21035A                          Instrument ID : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.70	2.000	84.8 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E155  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GME016SB GME016SL GME016SC  
LAB FILE ID: EE21038A EE21036A EE21037A  
DATE EXTRACTED: 05/22/1213:58 05/22/1212:32 05/22/1213:15 DATE COLLECTED: NA  
DATE ANALYZED: 05/22/1213:58 05/22/1212:32 05/22/1213:15 DATE RECEIVED: 05/22/12  
PREP. BATCH: GME016S GME016S GME016S  
CALIB. REF: EE21035A EE21035A EE21035A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	20.2	81	25.0	20.8	83	3	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.15	107	2.00	2.11	105	60-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E155  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: 11.6  
DILUTION FACTOR: 0.83 0.82 0.78  
SAMPLE ID: SL-727-SA5C-SB-5.0  
LAB SAMP ID: E155-03 E155-03M E155-03S  
LAB FILE ID: EE21041A EE21042A EE21043A  
DATE EXTRACTED: 05/22/1216:08 05/22/1216:51 05/22/1217:34 DATE COLLECTED: 05/21/12  
DATE ANALYZED: 05/22/1216:08 05/22/1216:51 05/22/1217:34 DATE RECEIVED: 05/21/12  
PREP. BATCH: GME016S GME016S GME016S  
CALIB. REF: EE21035A EE21035A EE21035A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	23.2	18.7	81	22.1	17.2	78	4	50-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	1.86	1.91	103	1.76	1.75	99	70-140

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/25/12 03:29
Sample ID:   TB-052112                          Date Analyzed: 05/25/12 03:29
Lab Samp ID: E155-25                             Dilution Factor: 1
Lab File ID: EE23048A                           Matrix          : WATER
Ext Btch ID: VG39E14                             % Moisture     : NA
Calib. Ref.: EE23041A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)**	46J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	34.7	40.00	86.8 60-140

RL : Reporting Limit  
 \*\*: Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/25/12
Batch No.    : 12E155                           Date Extracted: 05/25/12 00:36
Sample ID    : MBLK1W                           Date Analyzed: 05/25/12 00:36
Lab Samp ID  : VG39E14B                         Dilution Factor: 1
Lab File ID  : EE23044A                         Matrix          : WATER
Ext Btch ID  : VG39E14                          % Moisture     : NA
Calib. Ref.  : EE23041A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	34.1	40.00	85.3 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E155  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39E14B VG39E14L VG39E14C  
LAB FILE ID: EE23044A EE23042A EE23043A  
DATE EXTRACTED: 05/25/1200:36 05/24/1223:09 05/24/1223:53 DATE COLLECTED: NA  
DATE ANALYZED: 05/25/1200:36 05/24/1223:09 05/24/1223:53 DATE RECEIVED: 05/24/12  
PREP. BATCH: VG39E14 VG39E14 VG39E14  
CALIB. REF: EE23041A EE23041A EE23041A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	438	88	500	447	89	2	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	43.1	108	40.0	45.2	113	60-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID:   SL-727-SA5C-SB-0.0-0.5           Date Analyzed: 05/25/12 07:33
Lab Samp ID: E155-01                           Dilution Factor: 1
Lab File ID: LE24070A                          Matrix          : SOIL
Ext Btch ID: DSE030S                            % Moisture     : 8.3
Calib. Ref.: LE24061A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	9.2	5.5	2.7
EFH(C21-C30)	190	5.5	2.7
EFH(C30-C40)	230	11	5.5
TOTAL EFH(C8-C40)	430	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.3	109.1	65.4	50-150
HEXACOSANE	31.5	27.26	115	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID:   SL-727-SA5C-SB-4.0-5.0           Date Analyzed: 05/25/12 03:01
Lab Samp ID: E155-02                           Dilution Factor: 1
Lab File ID: LE24054A                          Matrix          : SOIL
Ext Btch ID: DSE030S                            % Moisture     : 11.6
Calib. Ref.: LE24049A                          Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	1.3J	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	23	5.7	2.8
EFH(C30-C40)	17	11	5.7
TOTAL EFH(C8-C40)	41	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.7	113.1	72.2	50-150
HEXACOSANE	24.7	28.28	87.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID    : SL-727-SA5C-SB-9.0-10.0         Date Analyzed: 05/25/12 07:49
Lab Samp ID  : E155-04                           Dilution Factor: 1
Lab File ID  : LE24071A                          Matrix          : SOIL
Ext Btch ID  : DSE030S                            % Moisture     : 10.8
Calib. Ref. : LE24061A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	160	5.6	2.8
EFH(C30-C40)	150	11	5.6
TOTAL EFH(C8-C40)	310	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	80.2	112.1	71.5	50-150
HEXACOSANE	28.8	28.03	103	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID:   SL-1027-SA5C-SB-4.0-5.0           Date Analyzed: 05/25/12 03:52
Lab Samp ID: E155-06                             Dilution Factor: 1
Lab File ID: LE24057A                           Matrix          : SOIL
Ext Btch ID: DSE030S                             % Moisture      : 11.7
Calib. Ref.: LE24049A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	26	5.7	2.8
EFH(C30-C40)	21	11	5.7
TOTAL EFH(C8-C40)	47	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	82.0	113.3	72.4	50-150
HEXACOSANE	25.4	28.31	89.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID:   SL-734-SA5C-SB-0.0-0.5            Date Analyzed: 05/25/12 05:34
Lab Samp ID: E155-08                            Dilution Factor: 1
Lab File ID: LE24063A                          Matrix          : SOIL
Ext Btch ID: DSE030S                            % Moisture     : 9.1
Calib. Ref.: LE24061A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	55	5.5	2.8
EFH(C30-C40)	56	11	5.5
TOTAL EFH(C8-C40)	110	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.8	110.0	70.7	50-150
HEXACOSANE	25.4	27.50	92.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID:   SL-734-SA5C-SB-4.0-5.0           Date Analyzed: 05/25/12 05:51
Lab Samp ID: E155-09                           Dilution Factor: 1
Lab File ID: LE24064A                          Matrix          : SOIL
Ext Btch ID: DSE030S                           % Moisture     : 11.8
Calib. Ref.: LE24061A                          Instrument ID  : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	78	5.7	2.8
EFH(C30-C40)	93	11	5.7
TOTAL EFH(C8-C40)	170	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.2	113.4	68.9	50-150
HEXACOSANE	27.9	28.34	98.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID:   SL-734-SA5C-SB-9.0-10.0           Date Analyzed: 05/25/12 06:08
Lab Samp ID: E155-11                             Dilution Factor: 1
Lab File ID: LE24065A                           Matrix          : SOIL
Ext Btch ID: DSE030S                             % Moisture     : 11.0
Calib. Ref.: LE24061A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	120	5.6	2.8
EFH(C30-C40)	110	11	5.6
TOTAL EFH(C8-C40)	230	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.9	112.4	69.4	50-150
HEXACOSANE	27.1	28.09	96.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID:   SL-740-SA5C-SB-9.0-10.0           Date Analyzed: 05/25/12 04:08
Lab Samp ID: E155-13                            Dilution Factor: 1
Lab File ID: LE24058A                           Matrix          : SOIL
Ext Btch ID: DSE030S                             % Moisture     : 11.3
Calib. Ref.: LE24049A                           Instrument ID   : GCT105
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```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	14	5.6	2.8
EFH(C30-C40)	11J	11	5.6
TOTAL EFH(C8-C40)	25	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.9	112.7	68.2	50-150
HEXACOSANE	23.8	28.18	84.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID:   SL-728-SA5C-SB-0.0-0.5            Date Analyzed: 05/25/12 06:25
Lab Samp ID: E155-15                            Dilution Factor: 1
Lab File ID: LE24066A                           Matrix          : SOIL
Ext Btch ID: DSE030S                            % Moisture     : 10.4
Calib. Ref.: LE24061A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	28	5.6	2.8
EFH(C30-C40)	29	11	5.6
TOTAL EFH(C8-C40)	57	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.8	111.6	67.0	50-150
HEXACOSANE	23.9	27.90	85.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID:   SL-728-SA5C-SB-4.0-5.0            Date Analyzed: 05/25/12 06:42
Lab Samp ID: E155-16                           Dilution Factor: 1
Lab File ID: LE24067A                          Matrix          : SOIL
Ext Btch ID: DSE030S                            % Moisture     : 11.8
Calib. Ref.: LE24061A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	26	5.7	2.8
EFH(C30-C40)	45	11	5.7
TOTAL EFH(C8-C40)	71	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	67.7	113.4	59.7	50-150
HEXACOSANE	24.2	28.34	85.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID    : SL-728-SA5C-SB-9.0-10.0         Date Analyzed: 05/25/12 04:25
Lab Samp ID  : E155-18                           Dilution Factor: 1
Lab File ID  : LE24059A                         Matrix          : SOIL
Ext Btch ID  : DSE030S                          % Moisture     : 12.8
Calib. Ref.  : LE24049A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	5.0J	5.7	2.9
EFH(C30-C40)	6.3J	11	5.7
TOTAL EFH(C8-C40)	11	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	80.4	114.7	70.1	50-150
HEXACOSANE	23.3	28.67	81.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID:   SL-729-SA5C-SB-0.0-0.5           Date Analyzed: 05/25/12 06:59
Lab Samp ID: E155-20                           Dilution Factor: 1
Lab File ID: LE24068A                          Matrix          : SOIL
Ext Btch ID: DSE030S                           % Moisture     : 10.0
Calib. Ref.: LE24061A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	33	5.6	2.8
EFH(C30-C40)	33	11	5.6
TOTAL EFH(C8-C40)	66	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.2	111.1	66.8	50-150
HEXACOSANE	24.1	27.78	86.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID:   SL-729-SA5C-SB-4.0-5.0           Date Analyzed: 05/25/12 04:42
Lab Samp ID: E155-21                           Dilution Factor: 1
Lab File ID: LE24060A                          Matrix          : SOIL
Ext Btch ID: DSE030S                            % Moisture     : 11.0
Calib. Ref.: LE24049A                          Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	5.2J	5.6	2.8
EFH(C30-C40)	17	11	5.6
TOTAL EFH(C8-C40)	22	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.7	112.4	69.2	50-150
HEXACOSANE	23.1	28.09	82.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID:   SL-729-SA5C-SB-9.0-10.0          Date Analyzed: 05/25/12 07:15
Lab Samp ID: E155-23                           Dilution Factor: 1
Lab File ID: LE24069A                          Matrix          : SOIL
Ext Btch ID: DSE030S                           % Moisture     : 12.7
Calib. Ref.: LE24061A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	73	5.7	2.9
EFH(C30-C40)	78	11	5.7
TOTAL EFH(C8-C40)	150	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.8	114.5	67.1	50-150
HEXACOSANE	27.2	28.64	94.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E155                           Date Extracted: 05/24/12 11:36
Sample ID    : MBLK1S                           Date Analyzed: 05/25/12 00:45
Lab Samp ID  : DSE030SB                         Dilution Factor: 1
Lab File ID  : LE24046A                         Matrix          : SOIL
Ext Btch ID  : DSE030S                          % Moisture      : NA
Calib. Ref.  : LE24038A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	66.7	100.0	66.7	50-150
HEXACOSANE	19.9	25.00	79.5	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E155  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE030SB DSE030SL DSE030SC  
LAB FILE ID: LE24046A LE24044A LE24045A  
DATE EXTRACTED: 05/24/1211:36 05/24/1211:36 05/24/1211:36 DATE COLLECTED: NA  
DATE ANALYZED: 05/25/1200:45 05/25/1200:11 05/25/1200:28 DATE RECEIVED: 05/24/12  
PREP. BATCH: DSE030S DSE030S DSE030S  
CALIB. REF: LE24038A LE24038A LE24038A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	527	105	500	545	109	3	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	79.5	79	100	78.5	79	50-150
Hexacosane	25.0	21.9	87	25.0	21.4	86	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E155  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 11.6  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-727-SA5C-SB-4.0-5.0  
LAB SAMP ID: E155-02 E155-02M E155-02S  
LAB FILE ID: LE24054A LE24055A LE24056A  
DATE EXTRACTED: 05/24/1211:36 05/24/1211:36 05/24/1211:36 DATE COLLECTED: 05/21/12  
DATE ANALYZED: 05/25/1203:01 05/25/1203:17 05/25/1203:34 DATE RECEIVED: 05/21/12  
PREP. BATCH: DSE030S DSE030S DSE030S  
CALIB. REF: LE24049A LE24049A LE24049A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	41.5	566	552	90	566	535	87	3	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	113	81.8	72	113	81.6	72	50-150
Hexacosane	28.3	23.8	84	28.3	23.5	83	50-150

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-727-SA5C-SB-0.0-0.5          Date Analyzed: 05/24/12 01:22
Lab Samp ID  : E155-01                          Dilution Factor: 1
Lab File ID  : REJ534                           Matrix          : SOIL
Ext Btch ID  : SVE044S                           % Moisture     : 8.3
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	7.7J	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	3.8J	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	170	363.5	46.7	40-130
2-FLUOROBIPHENYL	176	363.5	48.4	45-130
TERPHENYL-D14	228	363.5	62.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-727-SA5C-SB-4.0-5.0          Date Analyzed: 05/24/12 01:41
Lab Samp ID  : E155-02                          Dilution Factor: 1
Lab File ID  : REJ535                           Matrix          : SOIL
Ext Btch ID  : SVE044S                          % Moisture     : 11.6
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	2.9J	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	187	377.0	49.6	40-130
2-FLUOROBIPHENYL	186	377.0	49.2	45-130
TERPHENYL-D14	262	377.0	69.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-727-SA5C-SB-9.0-10.0         Date Analyzed: 05/24/12 02:00
Lab Samp ID  : E155-04                          Dilution Factor: 2
Lab File ID  : REJ536                           Matrix          : SOIL
Ext Btch ID  : SVE044S                          % Moisture     : 10.8
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.6
ACENAPHTHYLENE	ND	22	5.6
ANTHRACENE	ND	22	5.6
BENZO (A) ANTHRACENE	ND	22	5.6
BENZO (A) PYRENE	ND	22	5.6
BENZO (B) FLUORANTHENE	ND	22	5.6
BENZO (K) FLUORANTHENE	ND	22	5.6
BENZO (G, H, I) PERYLENE	10J	22	5.6
CHRYSENE	ND	22	5.6
DIBENZO (A, H) ANTHRACENE	ND	22	5.6
FLUORANTHENE	ND	22	5.6
FLUORENE	ND	22	5.6
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.6
NAPHTHALENE	ND	22	5.6
PHENANTHRENE	10J	22	5.6
2-METHYLNAPHTHALENE	ND	22	5.6
1-METHYLNAPHTHALENE	ND	22	5.6
N-NITROSODIMETHYLAMINE	ND	22	5.6
PYRENE	7.4J	22	5.6
AZOBENZENE	ND	11	5.6
BENZO (E) PYRENE	21	11	5.6
BIPHENYL	ND	11	5.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	204	373.7	54.6	40-130
2-FLUOROBIPHENYL	205	373.7	55.0	45-130
TERPHENYL-D14	311	373.7	83.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-1027-SA5C-SB-4.0-5.0         Date Analyzed: 05/24/12 02:19
Lab Samp ID  : E155-06                           Dilution Factor: 1
Lab File ID  : REJ537                             Matrix          : SOIL
Ext Btch ID  : SVE044S                            % Moisture     : 11.7
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	3.9J	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	179	377.5	47.4	40-130
2-FLUOROBIPHENYL	175	377.5	46.4	45-130
TERPHENYL-D14	259	377.5	68.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-734-SA5C-SB-0.0-0.5          Date Analyzed: 05/24/12 02:38
Lab Samp ID  : E155-08                           Dilution Factor: 1
Lab File ID  : REJ538                             Matrix          : SOIL
Ext Btch ID  : SVE044S                            % Moisture     : 9.1
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	3.1J	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	3.9J	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	3.5J	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	5.2J	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	214	366.7	58.5	40-130
2-FLUOROBIPHENYL	196	366.7	53.3	45-130
TERPHENYL-D14	239	366.7	65.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-734-SA5C-SB-4.0-5.0          Date Analyzed: 05/24/12 02:57
Lab Samp ID  : E155-09                           Dilution Factor: 1
Lab File ID  : REJ539                             Matrix          : SOIL
Ext Btch ID  : SVE044S                           % Moisture     : 11.8
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	5.1J	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	4.9J	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	5.6J	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	212	377.9	56.2	40-130
2-FLUOROBIPHENYL	185	377.9	49.1	45-130
TERPHENYL-D14	241	377.9	63.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 11:50
Sample ID    : SL-734-SA5C-SB-9.0-10.0         Date Analyzed: 05/24/12 03:15
Lab Samp ID  : E155-11                           Dilution Factor: 1
Lab File ID  : REJ540                             Matrix          : SOIL
Ext Btch ID  : SVE044S                            % Moisture     : 11.0
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	7.0J	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	4.3J	11	2.8
CHRYSENE	5.5J	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	12	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	4.3J	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	9.7	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	172	374.5	45.8	40-130
2-FLUOROBIPHENYL	148	374.5	39.5*	45-130
TERPHENYL-D14	219	374.5	58.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 11:50
Sample ID    : MBLK1S                           Date Analyzed: 05/23/12 20:38
Lab Samp ID  : SVE044SB                         Dilution Factor: 1
Lab File ID  : REJ519                           Matrix          : SOIL
Ext Btch ID : SVE044S                           % Moisture     : NA
Calib. Ref. : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	243	333.3	73.0	40-130
2-FLUOROBIPHENYL	234	333.3	70.3	45-130
TERPHENYL-D14	273	333.3	81.8	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E155  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE044SB SVE044SL SVE044SC  
LAB FILE ID: REJ519 REJ517 REJ518  
DATE EXTRACTED: 05/23/1211:50 05/23/1211:50 05/23/1211:50 DATE COLLECTED: NA  
DATE ANALYZED: 05/23/1220:38 05/23/1220:01 05/23/1220:20 DATE RECEIVED: 05/23/12  
PREP. BATCH: SVE044S SVE044S SVE044S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	282	84	333	305	92	8	10-130	50
Acenaphthylene	ND	333	309	93	333	337	101	9	20-130	50
Anthracene	ND	333	268	80	333	295	89	10	20-130	50
Benzo (a) anthracene	ND	333	289	87	333	317	95	9	30-130	50
Benzo (a) pyrene	ND	333	318	95	333	344	103	8	30-130	50
Benzo (b) fluoranthene	ND	333	330	99	333	359	108	8	40-130	50
Benzo (k) fluoranthene	ND	333	338	101	333	371	111	9	30-140	50
Benzo (g, h, i) perylene	ND	333	367	110	333	388	116	5	30-140	50
Chrysene	ND	333	296	89	333	321	96	8	30-140	50
Dibenzo (a, h) anthracene	ND	333	362	109	333	383	115	6	40-140	50
Fluoranthene	ND	333	294	88	333	332	100	12	30-130	50
Fluorene	ND	333	288	86	333	314	94	9	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	354	106	333	375	112	6	20-160	50
Naphthalene	ND	333	275	83	333	297	89	8	10-130	50
Phenanthrene	ND	333	276	83	333	303	91	9	20-130	50
2-Methylnaphthalene	ND	333	289	87	333	313	94	8	30-150	50
1-Methylnaphthalene	ND	333	291	87	333	316	95	8	30-150	50
N-Nitrosodimethylamine	ND	333	264	79	333	287	86	9	30-150	50
Pyrene	ND	333	285	86	333	323	97	12	20-150	50
Azobenzene	ND	333	267	80	333	295	88	10	30-150	50
Benzo (e) pyrene	ND	333	279	84	333	309	93	10	30-150	50
Biphenyl	ND	333	237	71	333	261	78	9	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	231	69	333	250	75	40-130
2-Fluorobiphenyl	333	224	67	333	243	73	45-130
Terphenyl-d14	333	262	79	333	288	87	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E155  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 11.6  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-727-SA5C-SB-4.0-5.0  
LAB SAMP ID: E155-02 E155-02M E155-02S  
LAB FILE ID: REJ535 REJ541 REJ567  
DATE EXTRACTED: 05/23/1211:50 05/23/1211:50 05/23/1211:50 DATE COLLECTED: 05/21/12  
DATE ANALYZED: 05/24/1201:41 05/24/1203:34 05/24/1220:52 DATE RECEIVED: 05/21/12  
PREP. BATCH: SVE044S SVE044S SVE044S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	377	234	62	377	239	63	2	10-130	50
Acenaphthylene	ND	377	263	70	377	267	71	2	20-130	50
Anthracene	ND	377	230	61	377	236	63	3	20-130	50
Benzo (a) anthracene	ND	377	221	58	377	234	62	6	30-130	50
Benzo (a) pyrene	ND	377	253	67	377	272	72	7	30-130	50
Benzo (b) fluoranthene	ND	377	267	71	377	293	78	9	30-130	50
Benzo (k) fluoranthene	ND	377	262	69	377	276	73	5	30-130	50
Benzo (g, h, i) perylene	ND	377	278	74	377	288	77	4	30-140	50
Chrysene	ND	377	211	56	377	227	60	7	20-130	50
Dibenzo (a, h) anthracene	ND	377	278	74	377	293	78	5	30-130	50
Fluoranthene	ND	377	245	65	377	257	68	5	30-150	50
Fluorene	ND	377	236	63	377	250	66	6	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	377	278	74	377	291	77	4	20-160	50
Naphthalene	ND	377	223	59	377	225	60	1	10-130	50
Phenanthrene	ND	377	231	61	377	239	63	4	20-130	50
2-Methylnaphthalene	ND	377	242	64	377	241	64	1	30-150	50
1-Methylnaphthalene	ND	377	247	65	377	244	65	1	30-150	50
N-Nitrosodimethylamine	ND	377	253	67	377	232	62	9	20-150	50
Pyrene	ND	377	232	62	377	241	64	4	10-160	50
Azobenzene	ND	377	232	61	377	222	59	4	30-150	50
Benzo (e) pyrene	2.93J	377	210	55	377	232	61	10	30-150	50
Biphenyl	ND	377	186	49	377	184	49	1	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	377	216	57	377	189	50	40-130
2-Fluorobiphenyl	377	175	46	377	171	45	45-130
Terphenyl-d14	377	197	52	377	194	51	45-135

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 15:29
Sample ID:   SL-727-SA5C-SB-0.0-0.5            Date Analyzed: 05/24/12 18:33
Lab Samp ID: E155-01                             Dilution Factor: 1
Lab File ID: SE24027A                           Matrix          : SOIL
Ext Btch ID: CPE033S                            % Moisture     : 8.3
Calib. Ref.: SE24021A                           Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.40   (14.19)	14.54	78.5   (97.6)	45-120
TETRACHLORO-M-XYLENE	14.62   (14.69)	14.54	101   (101)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 15:29
Sample ID:   SL-727-SA5C-SB-4.0-5.0           Date Analyzed: 05/24/12 19:08
Lab Samp ID: E155-02                           Dilution Factor: 1
Lab File ID: SE24028A                          Matrix          : SOIL
Ext Btch ID: CPE033S                            % Moisture     : 11.6
Calib. Ref.: SE24021A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.53   (15.96)	15.08	89.8   (106)	45-120
TETRACHLORO-M-XYLENE	(15.70)   15.49	15.08	(104)   103	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 15:29
Sample ID    : SL-727-SA5C-SB-9.0-10.0         Date Analyzed: 05/24/12 20:50
Lab Samp ID  : E155-04                           Dilution Factor: 1
Lab File ID  : SE24031A                          Matrix          : SOIL
Ext Btch ID  : CPE033S                           % Moisture     : 10.8
Calib. Ref.  : SE24021A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.40   (13.81)	14.94	76.3   (92.4)	45-120
TETRACHLORO-M-XYLENE	15.10   (15.22)	14.94	101   (102)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 15:29
Sample ID    : SL-1027-SA5C-SB-4.0-5.0         Date Analyzed: 05/24/12 21:25
Lab Samp ID  : E155-06                           Dilution Factor: 1
Lab File ID  : SE24032A                         Matrix          : SOIL
Ext Btch ID  : CPE033S                          % Moisture     : 11.7
Calib. Ref.  : SE24021A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.44   (13.56)	15.10	75.8   (89.8)	45-120
TETRACHLORO-M-XYLENE	(14.49)   14.28	15.10	(96.0)   94.6	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 15:29
Sample ID    : SL-734-SA5C-SB-0.0-0.5          Date Analyzed: 05/24/12 21:59
Lab Samp ID  : E155-08                           Dilution Factor: 1
Lab File ID  : SE24033A                          Matrix          : SOIL
Ext Btch ID  : CPE033S                           % Moisture     : 9.1
Calib. Ref.  : SE24021A                          Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.76   (13.90)	14.66	80.2   (94.8)	45-120
TETRACHLORO-M-XYLENE	(14.45)   14.35	14.66	(98.6)   97.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 15:29
Sample ID    : SL-734-SA5C-SB-4.0-5.0          Date Analyzed: 05/24/12 22:33
Lab Samp ID  : E155-09                           Dilution Factor: 1
Lab File ID  : SE24034A                          Matrix          : SOIL
Ext Btch ID  : CPE033S                           % Moisture     : 11.8
Calib. Ref.  : SE24021A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.88   (15.25)	15.11	85.2   (101)	45-120
TETRACHLORO-M-XYLENE	(16.21)   16.16	15.11	(107)   107	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
Batch No.    : 12E155                           Date Extracted: 05/23/12 15:29
Sample ID    : SL-734-SA5C-SB-9.0-10.0         Date Analyzed: 05/24/12 23:07
Lab Samp ID  : E155-11                           Dilution Factor: 1
Lab File ID  : SE24035A                         Matrix          : SOIL
Ext Btch ID  : CPE033S                          % Moisture     : 11.0
Calib. Ref.  : SE24021A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.88   (14.21)	14.98	79.3   (94.9)	45-120
TETRACHLORO-M-XYLENE	(14.76)   14.53	14.98	(98.6)   97.0	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/23/12
Batch No.    : 12E155                             Date Extracted: 05/23/12 15:29
Sample ID    : MBLK1S                             Date Analyzed: 05/24/12 16:50
Lab Samp ID  : 60E033SB                           Dilution Factor: 1
Lab File ID  : SE24024A                           Matrix          : SOIL
Ext Btch ID  : CPE033S                             % Moisture     : NA
Calib. Ref.  : SE24021A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.30)   16.09	13.33	(107)   121*	45-120
TETRACHLORO-M-XYLENE	13.54   (13.94)	13.33	102   (105)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E155  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E033SB 60E033SL 60E033SC  
LAB FILE ID: SE24024A SE24025A SE24026A  
DATE EXTRACTED: 05/23/1215:29 05/23/1215:29 05/23/1215:29 DATE COLLECTED: NA  
DATE ANALYZED: 05/24/1216:50 05/24/1217:25 05/24/1217:59 DATE RECEIVED: 05/23/12  
PREP. BATCH: CPE033S CPE033S CPE033S  
CALIB. REF: SE24021A SE24021A SE24021A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	172   (177)	103   (106)	167	173   (178)	104   (107)	1   (1)	50-130	50
Aroclor 1260	(ND)   ND	167	190   (202)	114   (121)	167	189   (203)	113   (122)	1   (0)	60-150	50
Aroclor 5460	(ND)   ND	83.3	104   (107)	125   (128)	83.3	101   (103)	121   (124)	3   (4)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(14.73)   16.63	(110)   125*	13.33	(14.78)   16.39	(111)   123*	45-120
Tetrachloro-m-xylene	13.33	13.60   (13.84)	102   (104)	13.33	13.71   (13.80)	103   (104)	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E155  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 11.6  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-727-SA5C-SB-4.0-5.0  
LAB SAMP ID: E155-02 E155-02M E155-02S  
LAB FILE ID: SE24028A SE24029A SE24030A  
DATE EXTRACTED: 05/23/1215:29 05/23/1215:29 05/23/1215:29 DATE COLLECTED: 05/21/12  
DATE ANALYZED: 05/24/1219:08 05/24/1219:42 05/24/1220:16 DATE RECEIVED: 05/21/12  
PREP. BATCH: CPE033S CPE033S CPE033S  
CALIB. REF: SE24021A SE24021A SE24021A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	189	189   (192)	100   (102)	189	194   (196)	103   (104)	3   (2)	20-160	50
Aroclor 1260	(ND)   ND	189	169   (184)	90   (98)	189	178   (192)	94   (102)	5   (4)	20-160	50
Aroclor 5460	(ND)   ND	94.3	(111)   109	(118)   116	94.3	(116)   114	(123)   121	(4)   4	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	15.08	13.45   (15.96)	89.2   (106)	15.08	13.44   (15.91)	89.1   (106)	45-120
Tetrachloro-m-xylene	15.08	15.45   (15.63)	102   (104)	15.08	(15.20)   15.13	(101)   100	10-160

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/21/12
Project     : SSFL PHASE 3                     Date Received: 05/21/12
SDG NO.    : 12E155                           Date Extracted: 05/30/12 12:13
Sample ID:  SL-727-SA5C-SB-0.0-0.5           Date Analyzed: 05/31/12 14:17
Lab Samp ID: E155-01                         Dilution Factor: 0.957
Lab File ID: 98E12027                       Matrix          : SOIL
Ext Btch ID: IME034S                         % Moisture     : 8.3
Calib. Ref.: 98E12017                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15800	104	12.5
Antimony	0.252J	0.522	0.104
Arsenic	5.17	0.522	0.209
Barium	99.9	0.522	0.209
Beryllium	0.738	0.522	0.0522
Boron	ND	5.22	2.61
Cadmium	0.188J	0.522	0.0522
Calcium	3720	20.9	10.4
Chromium	17.7	0.522	0.209
Cobalt	5.34	0.522	0.0522
Copper	6.87	0.522	0.209
Iron	21600	104	10.4
Lead	6.28	0.522	0.104
Magnesium	4260	10.4	5.22
Manganese	228	0.522	0.261
Molybdenum	0.651	0.522	0.0522
Nickel	9.55	0.522	0.209
Potassium	1970	104	31.3
Selenium	ND	0.522	0.209
Silver	ND	0.522	0.0522
Sodium	118	104	52.2
Strontium	21.2	0.522	0.261
Thallium	0.250J	0.417	0.0522
Tin	ND	10.4	5.22
Titanium	929	1.04	0.522
Vanadium	37.1	0.522	0.0522
Zinc	45.6	5.22	1.57
Lithium	20.4	2.09	1.04
Phosphorus	240	12.5	6.26
Zirconium	ND	5.22	2.61

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
SDG NO.     : 12E155                           Date Extracted: 05/30/12 12:13
Sample ID   : SL-727-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 14:08
Lab Samp ID : E155-02                           Dilution Factor: 0.976
Lab File ID : 98E12025                          Matrix          : SOIL
Ext Btch ID : IME034S                           % Moisture     : 11.6
Calib. Ref. : 98E12017                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10800	110	13.2
Antimony	0.219J	0.552	0.110
Arsenic	3.24	0.552	0.221
Barium	111	0.552	0.221
Beryllium	0.563	0.552	0.0552
Boron	ND	5.52	2.76
Cadmium	0.249J	0.552	0.0552
Calcium	1520	22.1	11.0
Chromium	15.1	0.552	0.221
Cobalt	5.76	0.552	0.0552
Copper	9.03	0.552	0.221
Iron	16100	110	11.0
Lead	4.67	0.552	0.110
Magnesium	2920	11.0	5.52
Manganese	340	0.552	0.276
Molybdenum	0.844	0.552	0.0552
Nickel	9.83	0.552	0.221
Potassium	2490	110	33.1
Selenium	ND	0.552	0.221
Silver	ND	0.552	0.0552
Sodium	102J	110	55.2
Strontium	17.2	0.552	0.276
Thallium	0.268J	0.442	0.0552
Tin	ND	11.0	5.52
Titanium	791	1.10	0.552
Vanadium	29.1	0.552	0.0552
Zinc	36.9	5.52	1.66
Lithium	10.9	2.21	1.10
Phosphorus	161	13.2	6.62
Zirconium	ND	5.52	2.76

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/21/12
Project    : SSFL PHASE 3                       Date Received: 05/21/12
SDG NO.    : 12E155                             Date Extracted: 05/30/12 12:13
Sample ID  : SL-727-SA5C-SB-9.0-10.0          Date Analyzed: 05/31/12 14:35
Lab Samp ID: E155-04                            Dilution Factor: 0.966
Lab File ID: 98E12031                          Matrix          : SOIL
Ext Btch ID: IME034S                           % Moisture     : 10.8
Calib. Ref.: 98E12029                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13000	108	13.0
Antimony	0.187J	0.541	0.108
Arsenic	3.14	0.541	0.217
Barium	100	0.541	0.217
Beryllium	0.565	0.541	0.0541
Boron	ND	5.41	2.71
Cadmium	0.147J	0.541	0.0541
Calcium	1620	21.7	10.8
Chromium	16.6	0.541	0.217
Cobalt	4.03	0.541	0.0541
Copper	5.52	0.541	0.217
Iron	17500	108	10.8
Lead	4.80	0.541	0.108
Magnesium	3830	10.8	5.41
Manganese	137	0.541	0.271
Molybdenum	0.741	0.541	0.0541
Nickel	8.95	0.541	0.217
Potassium	1190	108	32.5
Selenium	ND	0.541	0.217
Silver	ND	0.541	0.0541
Sodium	746	108	54.1
Strontium	20.3	0.541	0.271
Thallium	0.204J	0.433	0.0541
Tin	ND	10.8	5.41
Titanium	871	1.08	0.541
Vanadium	31.9	0.541	0.0541
Zinc	34.3	5.41	1.62
Lithium	15.1	2.17	1.08
Phosphorus	98.2	13.0	6.50
Zirconium	ND	5.41	2.71

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/21/12
Project    : SSFL PHASE 3                     Date Received: 05/21/12
SDG NO.    : 12E155                           Date Extracted: 05/30/12 12:13
Sample ID: SL-1027-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 14:40
Lab Samp ID: E155-06                         Dilution Factor: 0.985
Lab File ID: 98E12032                       Matrix          : SOIL
Ext Btch ID: IME034S                        % Moisture     : 11.7
Calib. Ref.: 98E12029                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9810	112	13.4
Antimony	0.196J	0.558	0.112
Arsenic	2.84	0.558	0.223
Barium	105	0.558	0.223
Beryllium	0.493J	0.558	0.0558
Boron	ND	5.58	2.79
Cadmium	0.235J	0.558	0.0558
Calcium	1380	22.3	11.2
Chromium	14.0	0.558	0.223
Cobalt	5.96	0.558	0.0558
Copper	8.16	0.558	0.223
Iron	15000	112	11.2
Lead	4.21	0.558	0.112
Magnesium	2620	11.2	5.58
Manganese	363	0.558	0.279
Molybdenum	0.740	0.558	0.0558
Nickel	9.12	0.558	0.223
Potassium	2470	112	33.5
Selenium	ND	0.558	0.223
Silver	ND	0.558	0.0558
Sodium	89.3J	112	55.8
Strontium	15.4	0.558	0.279
Thallium	0.238J	0.446	0.0558
Tin	ND	11.2	5.58
Titanium	762	1.12	0.558
Vanadium	26.8	0.558	0.0558
Zinc	33.8	5.58	1.67
Lithium	10.0	2.23	1.12
Phosphorus	140	13.4	6.69
Zirconium	ND	5.58	2.79

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
SDG NO.     : 12E155                            Date Extracted: 05/30/12 12:13
Sample ID   : SL-734-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 14:44
Lab Samp ID : E155-08                           Dilution Factor: 0.985
Lab File ID : 98E12033                         Matrix          : SOIL
Ext Btch ID : IME034S                          % Moisture     : 9.1
Calib. Ref. : 98E12029                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15100	108	13.0
Antimony	0.251J	0.542	0.108
Arsenic	4.82	0.542	0.217
Barium	90.8	0.542	0.217
Beryllium	0.613	0.542	0.0542
Boron	ND	5.42	2.71
Cadmium	0.188J	0.542	0.0542
Calcium	2840	21.7	10.8
Chromium	17.4	0.542	0.217
Cobalt	4.87	0.542	0.0542
Copper	6.94	0.542	0.217
Iron	20400	108	10.8
Lead	6.54	0.542	0.108
Magnesium	4120	10.8	5.42
Manganese	217	0.542	0.271
Molybdenum	0.543	0.542	0.0542
Nickel	8.98	0.542	0.217
Potassium	2500	108	32.5
Selenium	ND	0.542	0.217
Silver	ND	0.542	0.0542
Sodium	99.0J	108	54.2
Strontium	18.2	0.542	0.271
Thallium	0.250J	0.433	0.0542
Tin	ND	10.8	5.42
Titanium	1030	1.08	0.542
Vanadium	35.5	0.542	0.0542
Zinc	47.5	5.42	1.63
Lithium	20.4	2.17	1.08
Phosphorus	237	13.0	6.50
Zirconium	ND	5.42	2.71

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/21/12
Project      : SSFL PHASE 3                     Date Received: 05/21/12
SDG NO.     : 12E155                           Date Extracted: 05/30/12 12:13
Sample ID   : SL-734-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 14:49
Lab Samp ID : E155-09                           Dilution Factor: 0.985
Lab File ID : 98E12034                          Matrix          : SOIL
Ext Btch ID : IME034S                            % Moisture     : 11.8
Calib. Ref. : 98E12029                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10600	112	13.4
Antimony	0.190J	0.558	0.112
Arsenic	3.56	0.558	0.223
Barium	120	0.558	0.223
Beryllium	0.560	0.558	0.0558
Boron	ND	5.58	2.79
Cadmium	0.253J	0.558	0.0558
Calcium	1840	22.3	11.2
Chromium	15.0	0.558	0.223
Cobalt	6.29	0.558	0.0558
Copper	9.07	0.558	0.223
Iron	16800	112	11.2
Lead	4.91	0.558	0.112
Magnesium	3110	11.2	5.58
Manganese	367	0.558	0.279
Molybdenum	0.847	0.558	0.0558
Nickel	9.96	0.558	0.223
Potassium	2430	112	33.5
Selenium	ND	0.558	0.223
Silver	ND	0.558	0.0558
Sodium	127	112	55.8
Strontium	19.1	0.558	0.279
Thallium	0.261J	0.447	0.0558
Tin	ND	11.2	5.58
Titanium	781	1.12	0.558
Vanadium	29.9	0.558	0.0558
Zinc	38.5	5.58	1.68
Lithium	11.6	2.23	1.12
Phosphorus	155	13.4	6.70
Zirconium	ND	5.58	2.79

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/21/12
Project    : SSFL PHASE 3                     Date Received: 05/21/12
SDG NO.    : 12E155                           Date Extracted: 05/30/12 12:13
Sample ID  : SL-734-SA5C-SB-9.0-10.0         Date Analyzed: 05/31/12 14:54
Lab Samp ID: E155-11                           Dilution Factor: 0.980
Lab File ID: 98E12035                          Matrix          : SOIL
Ext Btch ID: IME034S                           % Moisture     : 11.0
Calib. Ref.: 98E12029                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10900	110	13.2
Antimony	0.205J	0.551	0.110
Arsenic	4.01	0.551	0.220
Barium	86.3	0.551	0.220
Beryllium	0.500J	0.551	0.0551
Boron	ND	5.51	2.75
Cadmium	0.184J	0.551	0.0551
Calcium	1360	22.0	11.0
Chromium	14.6	0.551	0.220
Cobalt	9.12	0.551	0.0551
Copper	5.26	0.551	0.220
Iron	16200	110	11.0
Lead	5.05	0.551	0.110
Magnesium	3290	11.0	5.51
Manganese	372	0.551	0.275
Molybdenum	0.941	0.551	0.0551
Nickel	8.68	0.551	0.220
Potassium	1320	110	33.0
Selenium	ND	0.551	0.220
Silver	ND	0.551	0.0551
Sodium	852	110	55.1
Strontium	17.0	0.551	0.275
Thallium	0.222J	0.440	0.0551
Tin	ND	11.0	5.51
Titanium	941	1.10	0.551
Vanadium	32.4	0.551	0.0551
Zinc	32.8	5.51	1.65
Lithium	15.1	2.20	1.10
Phosphorus	92.5	13.2	6.61
Zirconium	ND	5.51	2.75

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/30/12
SDG NO.    : 12E155                             Date Extracted: 05/30/12 12:13
Sample ID: MBLK1S                               Date Analyzed: 05/31/12 13:41
Lab Samp ID: IME034SB                           Dilution Factor: 1
Lab File ID: 98E12019                           Matrix          : SOIL
Ext Btch ID: IME034S                             % Moisture     : NA
Calib. Ref.: 98E12017                           Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E155  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME034SB IME034SL IME034SC  
LAB FILE ID: 98E12019 98E12020 98E12021  
DATIME EXTRACTD: 05/30/1212:13 05/30/1212:13 05/30/1212:13 DATE COLLECTED: NA  
DATIME ANALYZD: 05/31/1213:41 05/31/1213:45 05/31/1213:50 DATE RECEIVED: 05/30/12  
PREP. BATCH: IME034S IME034S IME034S  
CALIB. REF: 98E12017 98E12017 98E12017

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2590	103	2500	2540	102	2	80-120	20
Antimony	ND	25.0	25.5	102	25.0	25.1	100	2	80-120	20
Arsenic	ND	25.0	24.6	98	25.0	24.8	99	1	80-120	20
Barium	ND	25.0	25.5	102	25.0	25.0	100	2	80-120	20
Beryllium	ND	25.0	25.3	101	25.0	24.7	99	2	80-120	20
Boron	ND	25.0	25.6	102	25.0	25.4	101	1	80-120	20
Cadmium	ND	25.0	25.0	100	25.0	24.6	98	2	80-120	20
Calcium	ND	2500	2690	108	2500	2650	106	1	80-120	20
Chromium	ND	25.0	25.0	100	25.0	24.5	98	2	80-120	20
Cobalt	ND	25.0	25.2	101	25.0	24.8	99	2	80-120	20
Copper	ND	25.0	24.5	98	25.0	24.1	96	2	80-120	20
Iron	ND	2500	2640	106	2500	2610	105	1	80-120	20
Lead	ND	25.0	25.8	103	25.0	25.2	101	2	80-120	20
Magnesium	ND	2500	2580	103	2500	2540	102	1	80-120	20
Manganese	ND	25.0	25.6	103	25.0	25.4	102	1	80-120	20
Molybdenum	ND	25.0	25.2	101	25.0	24.8	99	2	80-120	20
Nickel	ND	25.0	24.4	98	25.0	24.1	96	2	80-120	20
Potassium	ND	2500	2640	105	2500	2560	102	3	80-120	20
Selenium	ND	25.0	24.7	99	25.0	24.5	98	1	80-120	20
Silver	ND	25.0	25.1	100	25.0	24.7	99	2	80-120	20
Sodium	ND	2500	2630	105	2500	2590	103	2	80-120	20
Strontium	ND	25.0	25.8	103	25.0	25.1	101	3	80-120	20
Thallium	ND	25.0	25.8	103	25.0	25.3	101	2	80-120	20
Tin	ND	25.0	27.8	111	25.0	27.4	109	1	80-120	20
Titanium	ND	25.0	25.6	102	25.0	25.3	101	1	80-120	20
Vanadium	ND	25.0	24.9	100	25.0	24.4	98	2	80-120	20
Zinc	ND	50.0	48.8	98	50.0	47.6	95	2	80-120	20
Lithium	ND	25.0	25.6	102	25.0	25.3	101	1	80-120	20
Phosphorus	ND	250	242	97	250	240	96	1	80-120	20
Zirconium	ND	25.0	25.3	101	25.0	25.0	100	1	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E155  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 11.6  
DILTN FACTR: 0.976 0.957 1.00  
SAMPLE ID: SL-727-SA5C-SB-4.0-5.0  
CONTROL NO.: E155-02 E155-02M E155-02S  
LAB FILE ID: 98E12025 98E12022 98E12023  
DATIME EXTRACTD: 05/30/1212:13 05/30/1212:13 05/30/1212:13 DATE COLLECTED: 05/21/12  
DATIME ANALYZD: 05/31/1214:08 05/31/1213:54 05/31/1213:59 DATE RECEIVED: 05/21/12  
PREP. BATCH: IME034S IME034S IME034S  
CALIB. REF: 98E12017 98E12017 98E12017

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	10800	2710	13200	92	2830	14300	125*	8	75-125	20
Antimony	0.219J	27.1	24.6	90	28.3	25.6	90	4	75-125	20
Arsenic	3.24	27.1	27.5	90	28.3	28.7	90	4	75-125	20
Barium	111	27.1	142	117	28.3	143	115	1	75-125	20
Beryllium	0.563	27.1	27.2	98	28.3	28.1	97	3	75-125	20
Boron	ND	27.1	27.8	103	28.3	29.2	103	5	75-125	20
Cadmium	0.249J	27.1	26.2	96	28.3	27.3	96	4	75-125	20
Calcium	1520	2710	4070	94	2830	4270	97	5	75-125	20
Chromium	15.1	27.1	39.4	90	28.3	41.0	92	4	75-125	20
Cobalt	5.76	27.1	30.2	90	28.3	32.2	94	6	75-125	20
Copper	9.03	27.1	32.5	87	28.3	33.8	87	4	75-125	20
Iron	16100	2710	18600	93	2830	18600	90	0	75-125	20
Lead	4.67	27.1	30.9	97	28.3	31.8	96	3	75-125	20
Magnesium	2920	2710	5370	90	2830	5430	89	1	75-125	20
Manganese	340	27.1	351	43*	28.3	515	622*	38*	75-125	20
Molybdenum	0.844	27.1	27.1	97	28.3	28.2	97	4	75-125	20
Nickel	9.83	27.1	33.3	87	28.3	35.4	90	6	75-125	20
Potassium	2490	2710	5260	102	2830	5370	102	2	75-125	20
Selenium	ND	27.1	25.3	94	28.3	26.3	93	4	75-125	20
Silver	ND	27.1	25.9	96	28.3	26.9	95	4	75-125	20
Sodium	102J	2710	2670	95	2830	2790	95	4	75-125	20
Strontium	17.2	27.1	42.9	95	28.3	44.8	98	4	75-125	20
Thallium	0.268J	27.1	26.8	98	28.3	27.6	97	3	75-125	20
Tin	ND	27.1	30.0	111	28.3	31.3	111	4	75-125	20
Titanium	791	27.1	818	101	28.3	862	251*	5	75-125	20
Vanadium	29.1	27.1	54.7	95	28.3	55.7	94	2	75-125	20
Zinc	36.9	54.1	84.9	89	56.6	87.7	90	3	75-125	20
Lithium	10.9	27.1	38.7	103	28.3	40.4	104	4	75-125	20
Phosphorus	161	271	392	85	283	387	80	1	75-125	20
Zirconium	ND	27.1	9.68	36*	28.3	11.6	41*	18	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E155  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 11.6  
DILTN FACTR: 0.976 0.976  
SAMPLE ID: SL-727-SA5C-SB-4.0-5.0  
CONTROL NO.: E155-02 E155-02A  
LAB FILE ID: 98E12025 98E12024  
DATIME EXTRACTD: 05/30/1212:13 05/30/1212:13 DATE COLLECTED: 05/21/12  
DATIME ANALYZD: 05/31/1214:08 05/31/1214:03 DATE RECEIVED: 05/21/12  
PREP. BATCH: IME034S IME034S  
CALIB. REF: 98E12017 98E12017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	10800	2760	13400	97	75-125
Antimony	0.219J	27.6	27.5	99	75-125
Arsenic	3.24	27.6	28.5	91	75-125
Barium	111	27.6	141	108	75-125
Beryllium	0.563	27.6	27.7	98	75-125
Boron	ND	27.6	29.4	106	75-125
Cadmium	0.249J	27.6	27.0	97	75-125
Calcium	1520	2760	4380	104	75-125
Chromium	15.1	27.6	40.0	90	75-125
Cobalt	5.76	27.6	30.8	91	75-125
Copper	9.03	27.6	33.1	87	75-125
Iron	16100	2760	18800	97	75-125
Lead	4.67	27.6	31.2	96	75-125
Magnesium	2920	2760	5590	97	75-125
Manganese	340	27.6	362	81	75-125
Molybdenum	0.844	27.6	27.9	98	75-125
Nickel	9.83	27.6	33.9	87	75-125
Potassium	2490	2760	5460	108	75-125
Selenium	ND	27.6	26.6	96	75-125
Silver	ND	27.6	26.4	95	75-125
Sodium	102J	2760	2830	99	75-125
Strontium	17.2	27.6	44.2	98	75-125
Thallium	0.268J	27.6	27.3	98	75-125
Tin	ND	27.6	30.5	110	75-125
Titanium	791	27.6	823	114	75-125
Vanadium	29.1	27.6	54.3	91	75-125
Zinc	36.9	55.2	86.2	89	75-125
Lithium	10.9	27.6	39.2	102	75-125
Phosphorus	161	276	415	92	75-125
Zirconium	ND	27.6	27.5	100	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E155  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 11.6  
 DILUTION FACTOR: 0.976 4.88  
 SAMPLE ID: SL-727-SA5C-SB SL-727-SA5C-SB  
 EMAX SAMP ID: E155-02 E155-02J  
 LAB FILE ID: 98E12025 98E12026  
 DATE EXTRACTED: 05/30/1212:13 05/30/1212:13 DATE COLLECTED: 05/21/12  
 DATE ANALYZED: 05/31/1214:08 05/31/1214:12 DATE RECEIVED: 05/21/12  
 PREP. BATCH: IME034S IME034S  
 CALIB. REF: 98E12017 98E12017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	10800	11000	3	10
Antimony	0.219J	ND	NA	10
Arsenic	3.24	3.27	1	10
Barium	111	106	5	10
Beryllium	0.563	0.561J	NA	10
Boron	ND	ND	0	10
Cadmium	0.249J	ND	NA	10
Calcium	1520	1600	5	10
Chromium	15.1	15.6	3	10
Cobalt	5.76	5.96	3	10
Copper	9.03	9.69	7	10
Iron	16100	16600	3	10
Lead	4.67	4.61	1	10
Magnesium	2920	3020	3	10
Manganese	340	355	5	10
Molybdenum	0.844	0.815J	NA	10
Nickel	9.83	10.2	4	10
Potassium	2490	2560	3	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	102J	ND	NA	10
Strontium	17.2	16.7	3	10
Thallium	0.268J	ND	NA	10
Tin	ND	ND	0	10
Titanium	791	785	1	10
Vanadium	29.1	30.1	3	10
Zinc	36.9	38.3	4	10
Lithium	10.9	10.8J	NA	10
Phosphorus	161	171	6	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E155

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGE022SB	ND	1	NA	0.100	0.0500	05/24/1218:37	05/24/1214:00	M47E019037	M47E019032	HGE022S	NA	05/24/12
LCS1S	HGE022SL	0.918	1	NA	0.100	0.0500	05/24/1218:39	05/24/1214:00	M47E019038	M47E019032	HGE022S	NA	05/24/12
LCD1S	HGE022SC	0.918	1	NA	0.100	0.0500	05/24/1218:41	05/24/1214:00	M47E019039	M47E019032	HGE022S	NA	05/24/12
SL-727-SA5C-SB-4.0-5.0AS	E155-02A	0.988	0.998	11.6	0.113	0.0564	05/24/1218:44	05/24/1214:00	M47E019040	M47E019032	HGE022S	05/21/12	05/21/12
SL-727-SA5C-SB-4.0-5.0	E155-02	ND	0.998	11.6	0.113	0.0564	05/24/1218:47	05/24/1214:00	M47E019041	M47E019032	HGE022S	05/21/12	05/21/12
SL-727-SA5C-SB-4.0-5.0DL	E155-02J	ND	4.99	11.6	0.564	0.282	05/24/1218:49	05/24/1214:00	M47E019042	M47E019032	HGE022S	05/21/12	05/21/12
SL-727-SA5C-SB-4.0-5.0MS	E155-02M	1.01	0.988	11.6	0.112	0.0559	05/24/1218:51	05/24/1214:00	M47E019043	M47E019032	HGE022S	05/21/12	05/21/12
SL-727-SA5C-SB-4.0-5.0MSD	E155-02S	1.01	0.987	11.6	0.112	0.0558	05/24/1218:57	05/24/1214:00	M47E019046	M47E019044	HGE022S	05/21/12	05/21/12
SL-727-SA5C-SB-0.0-0.5	E155-01	ND	0.990	8.3	0.108	0.0540	05/24/1218:59	05/24/1214:00	M47E019047	M47E019044	HGE022S	05/21/12	05/21/12
SL-727-SA5C-SB-9.0-10.0	E155-04	ND	1.00	10.8	0.112	0.0561	05/24/1219:01	05/24/1214:00	M47E019048	M47E019044	HGE022S	05/21/12	05/21/12
SL-1027-SA5C-SB-4.0-5.0	E155-06	ND	1.00	11.7	0.113	0.0566	05/24/1219:03	05/24/1214:00	M47E019049	M47E019044	HGE022S	05/21/12	05/21/12
SL-734-SA5C-SB-0.0-0.5	E155-08	ND	0.995	9.1	0.109	0.0547	05/24/1219:06	05/24/1214:00	M47E019050	M47E019044	HGE022S	05/21/12	05/21/12
SL-734-SA5C-SB-4.0-5.0	E155-09	ND	0.997	11.8	0.113	0.0565	05/24/1219:08	05/24/1214:00	M47E019051	M47E019044	HGE022S	05/21/12	05/21/12
SL-734-SA5C-SB-9.0-10.0	E155-11	ND	0.993	11.0	0.112	0.0558	05/24/1219:10	05/24/1214:00	M47E019052	M47E019044	HGE022S	05/21/12	05/21/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E155  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE022SB HGE022SL HGE022SC  
LAB FILE ID: M47E019037 M47E019038 M47E019039  
DATIME EXTRCTD: 05/24/1214:00 05/24/1214:00 05/24/1214:00 DATE COLLECTED: NA  
DATIME ANALYZD: 05/24/1218:37 05/24/1218:39 05/24/1218:41 DATE RECEIVED: 05/24/12  
PREP. BATCH: HGE022S HGE022S HGE022S  
CALIB. REF: M47E019032 M47E019032 M47E019032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.918	110	.833	.918	110	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E155  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 11.6  
DILTN FACTR: 0.998 0.988 0.987  
SAMPLE ID: SL-727-SA5C-SB-4.0-5.0  
CONTROL NO.: E155-02 E155-02M E155-02S  
LAB FILE ID: M47E019041 M47E019043 M47E019046  
DATIME EXTRCTD: 05/24/1214:00 05/24/1214:00 05/24/1214:00 DATE COLLECTED: 05/21/12  
DATIME ANALYZD: 05/24/1218:47 05/24/1218:51 05/24/1218:57 DATE RECEIVED: 05/21/12  
PREP. BATCH: HGE022S HGE022S HGE022S  
CALIB. REF: M47E019032 M47E019032 M47E019044

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.931	1.01	109	.93	1.01	109	0	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E155  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 11.6  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: SL-727-SA5C-SB-4.0-5.0  
CONTROL NO.: E155-02 E155-02A  
LAB FILE ID: M47E019041 M47E019040  
DATIME EXTRCTD: 05/24/1214:00 05/24/1214:00 DATE COLLECTED: 05/21/12  
DATIME ANALYZD: 05/24/1218:47 05/24/1218:44 DATE RECEIVED: 05/21/12  
PREP. BATCH: HGE022S HGE022S  
CALIB. REF: M47E019032 M47E019032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.94	.988	105	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E155  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 11.6  
 DILUTION FACTOR: 0.998 4.99  
 SAMPLE ID: SL-727-SA5C-SB-4.0- SL-727-SA5C-SB-4.0-  
 EMAX SAMP ID: E155-02 E155-02J  
 LAB FILE ID: M47E019041 M47E019042  
 DATE EXTRACTED: 05/24/1214:00 05/24/1214:00 DATE COLLECTED: 05/21/12  
 DATE ANALYZED: 05/24/1218:47 05/24/1218:49 DATE RECEIVED: 05/21/12  
 PREP. BATCH: HGE022S HGE022S  
 CALIB. REF: M47E019032 M47E019032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E155  
 =====

Matrix : SOIL  
 Instrument ID : 53  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL	MDL	Analysis	Extraction	LFID	CAL REF	PREP BATCH	Collection	Received
			(pH Unit)	(pH Unit)	(pH Unit)		DATETIME	DATETIME				DATETIME	DATETIME
SL-727-SA5C-SB-0.0-0.5	E155-01	7.51	1	NA	NA	NA	05/22/1214:20	05/22/1213:26	12PHE023S01	PHE023S	PHE023S	05/21/1210:29	05/21/12
SL-727-SA5C-SB-4.0-5.0	E155-02	5.42	1	NA	NA	NA	05/22/1214:23	05/22/1213:26	12PHE023S02	PHE023S	PHE023S	05/21/1210:32	05/21/12
SL-727-SA5C-SB-4.0-5.0	DUPE155-02D	5.40	1	NA	NA	NA	05/22/1214:25	05/22/1213:26	12PHE023S03	PHE023S	PHE023S	05/21/1210:32	05/21/12
SL-727-SA5C-SB-9.0-10.0	E155-04	8.12	1	NA	NA	NA	05/22/1214:28	05/22/1213:26	12PHE023S04	PHE023S	PHE023S	05/21/1210:36	05/21/12
SL-1027-SA5C-SB-4.0-5.0	E155-06	5.54	1	NA	NA	NA	05/22/1214:31	05/22/1213:26	12PHE023S05	PHE023S	PHE023S	05/21/1211:00	05/21/12
SL-734-SA5C-SB-0.0-0.5	E155-08	8.07	1	NA	NA	NA	05/22/1214:34	05/22/1213:26	12PHE023S06	PHE023S	PHE023S	05/21/1209:29	05/21/12
SL-734-SA5C-SB-4.0-5.0	E155-09	6.79	1	NA	NA	NA	05/22/1214:36	05/22/1213:26	12PHE023S07	PHE023S	PHE023S	05/21/1209:33	05/21/12
SL-734-SA5C-SB-9.0-10.0	E155-11	9.00	1	NA	NA	NA	05/22/1214:37	05/22/1213:26	12PHE023S08	PHE023S	PHE023S	05/21/1209:38	05/21/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E155	DATE RECEIVED:	05/21/12
SAMPLE ID:	SL-727-SA5C-SB-4.0-5.0DUP	DATE EXTRACTED:	05/22/1213:26
CONTROL NO.:	E155-02D	DATE ANALYZED:	05/22/1214:25

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	5.42	5.40	0.02	0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-730-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 16:09
Lab Samp ID  : E169-01                          Dilution Factor: 1
Lab File ID  : REJ671                           Matrix          : SOIL
Ext Btch ID  : SVE056S                          % Moisture     : 9.0
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	246	366.3	67.2	40-130
2-FLUOROBIPHENYL	223	366.3	60.9	45-130
TERPHENYL-D14	295	366.3	80.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-730-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 16:28
Lab Samp ID  : E169-02                           Dilution Factor: 1
Lab File ID  : REJ672                             Matrix          : SOIL
Ext Btch ID  : SVE056S                           % Moisture     : 11.4
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	228	376.2	60.5	40-130
2-FLUOROBIPHENYL	215	376.2	57.2	45-130
TERPHENYL-D14	276	376.2	73.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-730-SA5C-SB-9.0-10.0         Date Analyzed: 05/31/12 16:46
Lab Samp ID  : E169-04                           Dilution Factor: 1
Lab File ID  : REJ673                             Matrix          : SOIL
Ext Btch ID  : SVE056S                           % Moisture     : 12.1
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	3.4J	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	3.3J	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	4.5J	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	221	379.2	58.3	40-130
2-FLUOROBIPHENYL	208	379.2	54.9	45-130
TERPHENYL-D14	288	379.2	76.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-731-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 17:05
Lab Samp ID  : E169-06                           Dilution Factor: 1
Lab File ID  : REJ674                             Matrix          : SOIL
Ext Btch ID  : SVE056S                           % Moisture     : 9.6
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	3.3J	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	3.7J	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	229	368.7	62.0	40-130
2-FLUOROBIPHENYL	222	368.7	60.2	45-130
TERPHENYL-D14	284	368.7	77.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-731-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 17:24
Lab Samp ID  : E169-07                           Dilution Factor: 1
Lab File ID  : REJ675                             Matrix          : SOIL
Ext Btch ID  : SVE056S                           % Moisture     : 12.0
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	236	378.8	62.3	40-130
2-FLUOROBIPHENYL	223	378.8	58.9	45-130
TERPHENYL-D14	278	378.8	73.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-731-SA5C-SB-9.0-10.0         Date Analyzed: 05/31/12 17:43
Lab Samp ID  : E169-09                           Dilution Factor: 2
Lab File ID  : REJ676                             Matrix          : SOIL
Ext Btch ID  : SVE056S                           % Moisture     : 8.8
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	ND	22	5.5
BENZO (A) ANTHRACENE	5.8J	22	5.5
BENZO (A) PYRENE	ND	22	5.5
BENZO (B) FLUORANTHENE	5.7J	22	5.5
BENZO (K) FLUORANTHENE	ND	22	5.5
BENZO (G, H, I) PERYLENE	8.8J	22	5.5
CHRYSENE	ND	22	5.5
DIBENZO (A, H) ANTHRACENE	ND	22	5.5
FLUORANTHENE	ND	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	6.6J	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	ND	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	12	11	5.5
BIPHENYL	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	218	365.5	59.7	40-130
2-FLUOROBIPHENYL	221	365.5	60.4	45-130
TERPHENYL-D14	281	365.5	77.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-733-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 18:02
Lab Samp ID  : E169-11                          Dilution Factor: 2
Lab File ID  : REJ677                           Matrix          : SOIL
Ext Btch ID  : SVE056S                          % Moisture     : 8.6
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	ND	22	5.5
BENZO (A) ANTHRACENE	ND	22	5.5
BENZO (A) PYRENE	ND	22	5.5
BENZO (B) FLUORANTHENE	ND	22	5.5
BENZO (K) FLUORANTHENE	ND	22	5.5
BENZO (G, H, I) PERYLENE	6.0J	22	5.5
CHRYSENE	ND	22	5.5
DIBENZO (A, H) ANTHRACENE	ND	22	5.5
FLUORANTHENE	ND	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	ND	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	5.7J	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	7.6J	11	5.5
BIPHENYL	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	202	364.7	55.4	40-130
2-FLUOROBIPHENYL	214	364.7	58.6	45-130
TERPHENYL-D14	279	364.7	76.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-733-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 18:21
Lab Samp ID  : E169-12                          Dilution Factor: 1
Lab File ID  : REJ678                           Matrix          : SOIL
Ext Btch ID  : SVE056S                          % Moisture     : 9.7
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	212	369.1	57.3	40-130
2-FLUOROBIPHENYL	207	369.1	56.1	45-130
TERPHENYL-D14	283	369.1	76.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-733-SA5C-SB-9.0-10.0         Date Analyzed: 05/31/12 18:40
Lab Samp ID  : E169-14                          Dilution Factor: 1
Lab File ID  : REJ679                           Matrix          : SOIL
Ext Btch ID  : SVE056S                          % Moisture     : 11.0
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	215	374.5	57.3	40-130
2-FLUOROBIPHENYL	206	374.5	55.0	45-130
TERPHENYL-D14	279	374.5	74.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-682-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 18:59
Lab Samp ID  : E169-16                           Dilution Factor: 1
Lab File ID  : REJ680                             Matrix          : SOIL
Ext Btch ID  : SVE056S                           % Moisture     : 10.0
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	3.5J	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	227	370.3	61.2	40-130
2-FLUOROBIPHENYL	216	370.3	58.4	45-130
TERPHENYL-D14	293	370.3	79.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-682-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 19:18
Lab Samp ID  : E169-17                           Dilution Factor: 1
Lab File ID  : REJ681                             Matrix          : SOIL
Ext Btch ID  : SVE056S                           % Moisture     : 12.0
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	234	378.8	61.9	40-130
2-FLUOROBIPHENYL	218	378.8	57.6	45-130
TERPHENYL-D14	272	378.8	71.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-682-SA5C-SB-9.0-10.0         Date Analyzed: 05/31/12 19:36
Lab Samp ID  : E169-19                          Dilution Factor: 1
Lab File ID  : REJ682                           Matrix          : SOIL
Ext Btch ID  : SVE056S                          % Moisture     : 12.7
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	216	381.8	56.6	40-130
2-FLUOROBIPHENYL	191	381.8	50.1	45-130
TERPHENYL-D14	247	381.8	64.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-732-SA5C-SB-5.0-6.0         Date Analyzed: 05/31/12 19:55
Lab Samp ID  : E169-21                         Dilution Factor: 1
Lab File ID  : REJ683                           Matrix          : SOIL
Ext Btch ID  : SVE056S                          % Moisture     : 10.7
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	241	373.2	64.5	40-130
2-FLUOROBIPHENYL	227	373.2	60.7	45-130
TERPHENYL-D14	280	373.2	75.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : SL-732-SA5C-SB-10.5-11.5        Date Analyzed: 05/31/12 20:14
Lab Samp ID  : E169-23                          Dilution Factor: 1
Lab File ID  : REJ684                           Matrix          : SOIL
Ext Btch ID  : SVE056S                          % Moisture     : 6.7
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	225	357.2	62.8	40-130
2-FLUOROBIPHENYL	201	357.2	56.3	45-130
TERPHENYL-D14	262	357.2	73.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E169                           Date Extracted: 05/30/12 15:51
Sample ID    : MBLK1S                           Date Analyzed: 05/31/12 15:31
Lab Samp ID  : SVE056SB                        Dilution Factor: 1
Lab File ID  : REJ669                           Matrix          : SOIL
Ext Btch ID  : SVE056S                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	254	333.3	76.1	40-130
2-FLUOROBIPHENYL	225	333.3	67.5	45-130
TERPHENYL-D14	294	333.3	88.3	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE056SB SVE056SX SVE056SC  
LAB FILE ID: REJ669 RFJ006 REJ666  
DATE EXTRACTED: 05/30/1215:51 05/30/1215:51 05/30/1215:51 DATE COLLECTED: NA  
DATE ANALYZED: 05/31/1215:31 06/01/1211:48 05/31/1214:35 DATE RECEIVED: 05/30/12  
PREP. BATCH: SVE056S SVE056S SVE056S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	322	97	333	321	96	0	10-130	50
Acenaphthylene	ND	333	359	108	333	353	106	2	20-130	50
Anthracene	ND	333	308	92	333	299	90	3	20-130	50
Benzo (a) anthracene	ND	333	348	104	333	341	102	2	30-130	50
Benzo (a) pyrene	ND	333	380	114	333	373	112	2	30-130	50
Benzo (b) fluoranthene	ND	333	412	124	333	395	118	4	40-130	50
Benzo (k) fluoranthene	ND	333	388	117	333	380	114	2	30-140	50
Benzo (g, h, i) perylene	ND	333	405	122	333	398	119	2	30-140	50
Chrysene	ND	333	342	103	333	341	102	0	30-140	50
Dibenzo (a, h) anthracene	ND	333	403	121	333	394	118	2	40-140	50
Fluoranthene	ND	333	365	110	333	352	106	4	30-130	50
Fluorene	ND	333	344	103	333	328	98	5	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	403	121	333	391	117	3	20-160	50
Naphthalene	ND	333	299	90	333	301	90	1	10-130	50
Phenanthrene	ND	333	316	95	333	308	92	2	20-130	50
2-Methylnaphthalene	ND	333	321	96	333	319	96	1	30-150	50
1-Methylnaphthalene	ND	333	326	98	333	328	98	1	30-150	50
N-Nitrosodimethylamine	ND	333	263	79	333	286	86	8	30-150	50
Pyrene	ND	333	356	107	333	337	101	5	20-150	50
Azobenzene	ND	333	302	91	333	313	94	4	30-150	50
Benzo (e) pyrene	ND	333	307	92	333	280	84	9	30-150	50
Biphenyl	ND	333	242	73	333	223	67	8	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	241	72	333	245	74	40-130
2-Fluorobiphenyl	333	227	68	333	214	64	45-130
Terphenyl-d14	333	283	85	333	265	80	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 11.0  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-733-SA5C-SB-9.0-10.0  
LAB SAMP ID: E169-14 E169-14M E169-14S  
LAB FILE ID: REJ679 REJ667 REJ668  
DATE EXTRACTED: 05/30/1215:51 05/30/1215:51 05/30/1215:51 DATE COLLECTED: 05/22/12  
DATE ANALYZED: 05/31/1218:40 05/31/1214:53 05/31/1215:12 DATE RECEIVED: 05/22/12  
PREP. BATCH: SVE056S SVE056S SVE056S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	374	369	98	374	357	95	3	10-130	50
Acenaphthylene	ND	374	406	108	374	393	105	3	20-130	50
Anthracene	ND	374	344	92	374	336	90	2	20-130	50
Benzo (a) anthracene	ND	374	379	101	374	359	96	5	30-130	50
Benzo (a) pyrene	ND	374	404	108	374	407	109	1	30-130	50
Benzo (b) fluoranthene	ND	374	420	112	374	429	115	2	30-130	50
Benzo (k) fluoranthene	ND	374	445	119	374	448	120	1	30-130	50
Benzo (g, h, i) perylene	ND	374	445	119	374	455	121	2	30-140	50
Chrysene	ND	374	384	103	374	366	98	5	20-130	50
Dibenzo (a, h) anthracene	ND	374	442	118	374	448	120	1	30-130	50
Fluoranthene	ND	374	401	107	374	392	105	2	30-150	50
Fluorene	ND	374	381	102	374	373	99	2	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	374	438	117	374	447	119	2	20-160	50
Naphthalene	ND	374	303	81	374	306	82	1	10-130	50
Phenanthrene	ND	374	363	97	374	358	96	1	20-130	50
2-Methylnaphthalene	ND	374	352	94	374	343	92	2	30-150	50
1-Methylnaphthalene	ND	374	364	97	374	353	94	3	30-150	50
N-Nitrosodimethylamine	ND	374	334	89	374	313	84	6	20-150	50
Pyrene	ND	374	386	103	374	378	101	2	10-160	50
Azobenzene	ND	374	367	98	374	338	90	8	30-150	50
Benzo (e) pyrene	ND	374	321	86	374	304	81	6	30-150	50
Biphenyl	ND	374	235	63	374	219	58	7	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	374	264	70	374	249	67	40-130
2-Fluorobiphenyl	374	229	61	374	219	58	45-130
Terphenyl-d14	374	293	78	374	280	75	45-135

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                       Date Received: 05/22/12
Batch No.    : 12E169                             Date Extracted: 05/25/12 09:57
Sample ID:   SL-730-SA5C-SB-5.0                  Date Analyzed: 05/25/12 09:57
Lab Samp ID: E169-03                              Dilution Factor: 0.79
Lab File ID: EE23057A                             Matrix          : SOIL
Ext Btch ID: GME019S                              % Moisture     : 11.4
Calib. Ref.: EE23053A                             Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.89	0.45
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.37	1.783	77.0 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/23/12 15:26

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/25/12 10:40
Sample ID    : SL-730-SA5C-SB-10.0             Date Analyzed: 05/25/12 10:40
Lab Samp ID  : E169-05                         Dilution Factor: 0.81
Lab File ID  : EE23058A                       Matrix          : SOIL
Ext Btch ID  : GME019S                        % Moisture     : 13.1
Calib. Ref.  : EE23053A                       Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.93	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.37	1.864	73.3 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/23/12 15:26

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

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=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/25/12 11:23
Sample ID    : SL-731-SA5C-SB-5.0              Date Analyzed: 05/25/12 11:23
Lab Samp ID  : E169-08                          Dilution Factor: 0.77
Lab File ID  : EE23059A                         Matrix          : SOIL
Ext Btch ID  : GME019S                          % Moisture     : 13.2
Calib. Ref.  : EE23053A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.89	0.44
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.30	1.774	73.5 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/23/12 15:26

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

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=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/25/12 12:06
Sample ID:   SL-731-SA5C-SB-10.0               Date Analyzed: 05/25/12 12:06
Lab Samp ID: E169-10                           Dilution Factor: 0.95
Lab File ID: EE23060A                           Matrix          : SOIL
Ext Btch ID: GME019S                             % Moisture     : 7.9
Calib. Ref.: EE23053A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.68	2.063	81.3 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/23/12 15:26

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/25/12 12:49
Sample ID    : SL-733-SA5C-SB-5.0              Date Analyzed: 05/25/12 12:49
Lab Samp ID  : E169-13                          Dilution Factor: 0.97
Lab File ID  : EE23061A                        Matrix          : SOIL
Ext Btch ID  : GME019S                          % Moisture     : 10.5
Calib. Ref.  : EE23053A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.54
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.62	2.168	74.9 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/23/12 15:26

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/25/12 13:32
Sample ID    : SL-733-SA5C-SB-10.0             Date Analyzed: 05/25/12 13:32
Lab Samp ID  : E169-15                         Dilution Factor: 0.88
Lab File ID  : EE23062A                       Matrix          : SOIL
Ext Btch ID  : GME019S                        % Moisture     : 14.9
Calib. Ref.  : EE23053A                       Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.61	2.068	77.7 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/23/12 15:26

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/25/12 14:15
Sample ID    : SL-682-SA5C-SB-5.0              Date Analyzed: 05/25/12 14:15
Lab Samp ID  : E169-18                          Dilution Factor: 0.8
Lab File ID  : EE23063A                        Matrix          : SOIL
Ext Btch ID  : GME019S                          % Moisture     : 12.7
Calib. Ref.  : EE23053A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.92	0.46
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.32	1.833	72.2 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/23/12 15:26

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/25/12 21:24
Sample ID:   SL-682-SA5C-SB-10.0               Date Analyzed: 05/25/12 21:24
Lab Samp ID: E169-20                           Dilution Factor: 0.88
Lab File ID: EE25008A                          Matrix          : SOIL
Ext Btch ID: GME019S                           % Moisture     : 14.2
Calib. Ref.: EE25002A                          Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.73	2.051	84.2 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/23/12 15:26

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/25/12 22:07
Sample ID    : SL-732-SA5C-SB-6.0              Date Analyzed: 05/25/12 22:07
Lab Samp ID  : E169-22                         Dilution Factor: 0.79
Lab File ID  : EE25009A                       Matrix          : SOIL
Ext Btch ID  : GME019S                        % Moisture     : 11.5
Calib. Ref.  : EE25002A                       Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.89	0.45
SURROGATE PARAMETERS			
4-BROMOFLUOROBENZENE	1.49	1.785	70-140

RL : Reporting Limit  
 Methanol Extraction: 05/23/12 15:26

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/25/12 22:50
Sample ID:   SL-732-SA5C-SB-11.5               Date Analyzed: 05/25/12 22:50
Lab Samp ID: E169-24                            Dilution Factor: 0.92
Lab File ID: EE25010A                           Matrix          : SOIL
Ext Btch ID: GME019S                            % Moisture     : 6.8
Calib. Ref.: EE25002A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.99	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.74	1.974	87.9 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/23/12 15:26

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/25/12
Batch No.    : 12E169                           Date Extracted: 05/25/12 09:14
Sample ID    : MBLK1S                           Date Analyzed: 05/25/12 09:14
Lab Samp ID  : GME019SB                         Dilution Factor: 1
Lab File ID  : EE23056A                        Matrix          : SOIL
Ext Btch ID  : GME019S                          % Moisture      : NA
Calib. Ref.  : EE23053A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.65	2.000	82.7 60-130

RL : Reporting Limit  
 Methanol Extraction: 05/23/12 15:26

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GME019SB GME019SL GME019SC  
LAB FILE ID: EE23056A EE23054A EE23055A  
DATE EXTRACTED: 05/25/1209:14 05/25/1207:47 05/25/1208:31 DATE COLLECTED: NA  
DATE ANALYZED: 05/25/1209:14 05/25/1207:47 05/25/1208:31 DATE RECEIVED: 05/25/12  
PREP. BATCH: GME019S GME019S GME019S  
CALIB. REF: EE23053A EE23053A EE23053A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	21.3	85	25.0	20.2	81	5	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.12	106	2.00	2.13	107	60-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/25/12 05:38
Sample ID    : TB-052212                        Date Analyzed: 05/25/12 05:38
Lab Samp ID  : E169-25                          Dilution Factor: 1
Lab File ID  : EE23051A                         Matrix          : WATER
Ext Btch ID  : VG39E14                          % Moisture     : NA
Calib. Ref.  : EE23041A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)**	32J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	34.6	40.00	86.5 60-140

RL : Reporting Limit  
 \*\*: Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/25/12
Batch No.    : 12E169                           Date Extracted: 05/25/12 00:36
Sample ID    : MBLK1W                            Date Analyzed: 05/25/12 00:36
Lab Samp ID  : VG39E14B                         Dilution Factor: 1
Lab File ID  : EE23044A                         Matrix          : WATER
Ext Btch ID  : VG39E14                          % Moisture     : NA
Calib. Ref.  : EE23041A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	34.1	40.00	85.3 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39E14B VG39E14L VG39E14C  
LAB FILE ID: EE23044A EE23042A EE23043A  
DATE EXTRACTED: 05/25/1200:36 05/24/1223:09 05/24/1223:53 DATE COLLECTED: NA  
DATE ANALYZED: 05/25/1200:36 05/24/1223:09 05/24/1223:53 DATE RECEIVED: 05/24/12  
PREP. BATCH: VG39E14 VG39E14 VG39E14  
CALIB. REF: EE23041A EE23041A EE23041A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	438	88	500	447	89	2	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	43.1	108	40.0	45.2	113	60-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID    : SL-730-SA5C-SB-0.0-0.5          Date Analyzed: 05/30/12 03:40
Lab Samp ID  : E169-01                          Dilution Factor: 1
Lab File ID  : LE29036A                         Matrix          : SOIL
Ext Btch ID  : DSE036S                          % Moisture     : 9.0
Calib. Ref. : LE29039A                         Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	11	5.5	2.7
EFH(C30-C40)	11J	11	5.5
TOTAL EFH(C8-C40)	22	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	83.1	109.9	75.6	50-150
HEXACOSANE	22.5	27.47	81.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID    : SL-730-SA5C-SB-4.0-5.0          Date Analyzed: 05/30/12 03:57
Lab Samp ID  : E169-02                          Dilution Factor: 1
Lab File ID  : LE29037A                         Matrix          : SOIL
Ext Btch ID  : DSE036S                          % Moisture     : 11.4
Calib. Ref.  : LE29039A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	8.1	5.6	2.8
EFH(C30-C40)	7.2J	11	5.6
TOTAL EFH(C8-C40)	15	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	90.8	112.9	80.5	50-150
HEXACOSANE	24.4	28.22	86.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID    : SL-730-SA5C-SB-9.0-10.0         Date Analyzed: 05/30/12 04:14
Lab Samp ID  : E169-04                           Dilution Factor: 1
Lab File ID  : LE29038A                         Matrix          : SOIL
Ext Btch ID  : DSE036S                          % Moisture     : 12.1
Calib. Ref.  : LE29039A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	15	5.7	2.8
EFH(C30-C40)	17	11	5.7
TOTAL EFH(C8-C40)	32	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	89.5	113.8	78.7	50-150
HEXACOSANE	24.9	28.44	87.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                          Date Extracted: 05/29/12 14:36
Sample ID:   SL-731-SA5C-SB-0.0-0.5           Date Analyzed: 05/30/12 06:30
Lab Samp ID: E169-06                          Dilution Factor: 1
Lab File ID: LE29046A                         Matrix          : SOIL
Ext Btch ID: DSE036S                          % Moisture     : 9.6
Calib. Ref.: LE29039A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	16	5.5	2.8
EFH(C30-C40)	21	11	5.5
TOTAL EFH(C8-C40)	37	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	85.4	110.6	77.2	50-150
HEXACOSANE	23.7	27.65	85.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID:   SL-731-SA5C-SB-4.0-5.0           Date Analyzed: 05/30/12 06:47
Lab Samp ID: E169-07                           Dilution Factor: 1
Lab File ID: LE29047A                          Matrix          : SOIL
Ext Btch ID: DSE036S                           % Moisture     : 12.0
Calib. Ref.: LE29039A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	4.4J	5.7	2.8
EFH(C30-C40)	9.4J	11	5.7
TOTAL EFH(C8-C40)	14	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	91.1	113.6	80.2	50-150
HEXACOSANE	24.6	28.41	86.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID    : SL-731-SA5C-SB-9.0-10.0         Date Analyzed: 05/30/12 07:38
Lab Samp ID  : E169-09                           Dilution Factor: 1
Lab File ID  : LE29050A                          Matrix          : SOIL
Ext Btch ID  : DSE036S                           % Moisture     : 8.8
Calib. Ref.  : LE29039A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	56	5.5	2.7
EFH(C30-C40)	140	11	5.5
TOTAL EFH(C8-C40)	200	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	84.0	109.6	76.6	50-150
HEXACOSANE	26.3	27.41	95.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID   : SL-733-SA5C-SB-0.0-0.5          Date Analyzed: 05/30/12 07:21
Lab Samp ID : E169-11                           Dilution Factor: 1
Lab File ID : LE29049A                          Matrix          : SOIL
Ext Btch ID : DSE036S                            % Moisture     : 8.6
Calib. Ref. : LE29039A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	52	5.5	2.7
EFH(C30-C40)	71	11	5.5
TOTAL EFH(C8-C40)	120	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	88.5	109.4	80.9	50-150
HEXACOSANE	25.6	27.35	93.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID:   SL-733-SA5C-SB-4.0-5.0           Date Analyzed: 05/30/12 05:56
Lab Samp ID: E169-12                           Dilution Factor: 1
Lab File ID: LE29044A                          Matrix          : SOIL
Ext Btch ID: DSE036S                           % Moisture     : 9.7
Calib. Ref.: LE29039A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	6.6	5.5	2.8
EFH(C30-C40)	6.4J	11	5.5
TOTAL EFH(C8-C40)	13	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	86.4	110.7	78.0	50-150
HEXACOSANE	23.2	27.69	83.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID    : SL-733-SA5C-SB-9.0-10.0         Date Analyzed: 05/30/12 05:05
Lab Samp ID  : E169-14                          Dilution Factor: 1
Lab File ID  : LE29041A                        Matrix          : SOIL
Ext Btch ID  : DSE036S                          % Moisture     : 11.0
Calib. Ref.  : LE29039A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	89.9	112.4	80.0	50-150
HEXACOSANE	23.8	28.09	84.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID   : SL-682-SA5C-SB-0.0-0.5           Date Analyzed: 05/30/12 07:04
Lab Samp ID : E169-16                           Dilution Factor: 1
Lab File ID : LE29048A                          Matrix          : SOIL
Ext Btch ID : DSE036S                           % Moisture     : 10.0
Calib. Ref. : LE29039A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	30	5.6	2.8
EFH(C30-C40)	46	11	5.6
TOTAL EFH(C8-C40)	76	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	87.5	111.1	78.7	50-150
HEXACOSANE	25.6	27.78	92.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID    : SL-682-SA5C-SB-4.0-5.0          Date Analyzed: 05/30/12 05:22
Lab Samp ID  : E169-17                           Dilution Factor: 1
Lab File ID  : LE29042A                          Matrix          : SOIL
Ext Btch ID  : DSE036S                           % Moisture     : 12.0
Calib. Ref.  : LE29039A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	93.9	113.6	82.6	50-150
HEXACOSANE	25.0	28.41	88.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID    : SL-682-SA5C-SB-9.0-10.0         Date Analyzed: 05/30/12 06:13
Lab Samp ID  : E169-19                           Dilution Factor: 1
Lab File ID  : LE29045A                          Matrix          : SOIL
Ext Btch ID  : DSE036S                           % Moisture      : 12.7
Calib. Ref.  : LE29039A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	10	5.7	2.9
EFH(C30-C40)	11J	11	5.7
TOTAL EFH(C8-C40)	21	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	97.2	114.5	84.8	50-150
HEXACOSANE	26.4	28.64	92.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID:   SL-732-SA5C-SB-5.0-6.0           Date Analyzed: 05/30/12 09:20
Lab Samp ID: E169-21                           Dilution Factor: 1
Lab File ID: LE29056A                          Matrix          : SOIL
Ext Btch ID: DSE036S                            % Moisture     : 10.7
Calib. Ref.: LE29051A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	4.6J	5.6	2.8
EFH(C30-C40)	7.4J	11	5.6
TOTAL EFH(C8-C40)	12	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	89.0	112.0	79.5	50-150
HEXACOSANE	24.5	28.00	87.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID    : SL-732-SA5C-SB-10.5-11.5        Date Analyzed: 05/30/12 05:39
Lab Samp ID  : E169-23                          Dilution Factor: 1
Lab File ID  : LE29043A                        Matrix          : SOIL
Ext Btch ID  : DSE036S                         % Moisture     : 6.7
Calib. Ref.  : LE29039A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	87.3	107.2	81.5	50-150
HEXACOSANE	23.3	26.80	86.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 14:36
Sample ID    : MBLK1S                            Date Analyzed: 05/30/12 03:23
Lab Samp ID  : DSE036SB                         Dilution Factor: 1
Lab File ID  : LE29035A                        Matrix          : SOIL
Ext Btch ID  : DSE036S                          % Moisture     : NA
Calib. Ref.  : LE29039A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	80.6	100.0	80.6	50-150
HEXACOSANE	21.3	25.00	85.0	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE036SB DSE036SL DSE036SC  
LAB FILE ID: LE29035A LE29033A LE29034A  
DATE EXTRACTED: 05/29/1214:36 05/29/1214:36 05/29/1214:36 DATE COLLECTED: NA  
DATE ANALYZED: 05/30/1203:23 05/30/1202:48 05/30/1203:06 DATE RECEIVED: 05/29/12  
PREP. BATCH: DSE036S DSE036S DSE036S  
CALIB. REF: LE29039A LE29039A LE29039A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	468	94	500	425	85	9	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	85.3	85	100	84.2	84	50-150
Hexacosane	25.0	21.4	86	25.0	21.4	86	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 15:12
Sample ID    : SL-733-SA5C-SB-0.0-0.5          Date Analyzed: 06/02/12 13:53
Lab Samp ID  : E169-11                          Dilution Factor: 1
Lab File ID  : SF01054A                         Matrix          : SOIL
Ext Btch ID  : CPE037S                          % Moisture     : 8.6
Calib. Ref.  : SF01048A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	9.637   (10.40)	14.58	66.1   (71.3)	45-120
TETRACHLORO-M-XYLENE	12.91   (13.46)	14.58	88.5   (92.3)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 15:12
Sample ID    : SL-733-SA5C-SB-4.0-5.0          Date Analyzed: 06/02/12 14:27
Lab Samp ID  : E169-12                          Dilution Factor: 1
Lab File ID  : SF01055A                        Matrix          : SOIL
Ext Btch ID  : CPE037S                         % Moisture     : 9.7
Calib. Ref.  : SF01048A                       Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.70   (11.74)	14.76	79.3   (79.5)	45-120
TETRACHLORO-M-XYLENE	(13.51)   12.53	14.76	(91.5)   84.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 15:12
Sample ID    : SL-733-SA5C-SB-9.0-10.0         Date Analyzed: 06/02/12 15:02
Lab Samp ID  : E169-14                          Dilution Factor: 1
Lab File ID  : SF01056A                        Matrix          : SOIL
Ext Btch ID  : CPE037S                         % Moisture     : 11.0
Calib. Ref.  : SF01048A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(12.78)   12.32	14.98	(85.3)   82.2	45-120
TETRACHLORO-M-XYLENE	12.68   (13.24)	14.98	84.6   (88.4)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 15:12
Sample ID    : SL-682-SA5C-SB-0.0-0.5          Date Analyzed: 06/02/12 15:37
Lab Samp ID  : E169-16                           Dilution Factor: 1
Lab File ID  : SF01057A                         Matrix          : SOIL
Ext Btch ID  : CPE037S                          % Moisture     : 10.0
Calib. Ref.  : SF01048A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	10.55   (11.31)	14.81	71.2   (76.3)	45-120
TETRACHLORO-M-XYLENE	(12.85)   12.20	14.81	(86.8)   82.4	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 06/04/12 16:13
Sample ID    : SL-682-SA5C-SB-4.0-5.0          Date Analyzed: 06/05/12 11:41
Lab Samp ID  : E169-17R                         Dilution Factor: 1
Lab File ID  : SF05004A                        Matrix          : SOIL
Ext Btch ID  : CPF002S                          % Moisture     : 12.0
Calib. Ref.  : SF05002A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.29   (11.88)	15.15	74.5   (78.4)	45-120
TETRACHLORO-M-XYLENE	11.84   (12.75)	15.15	78.2   (84.2)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
Batch No.    : 12E169                           Date Extracted: 05/29/12 15:12
Sample ID    : SL-682-SA5C-SB-9.0-10.0         Date Analyzed: 06/02/12 16:46
Lab Samp ID  : E169-19                          Dilution Factor: 1
Lab File ID  : SF01059A                        Matrix          : SOIL
Ext Btch ID  : CPE037S                         % Moisture     : 12.7
Calib. Ref. : SF01048A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	10.39   (11.46)	15.27	68.1   (75.0)	45-120
TETRACHLORO-M-XYLENE	(12.98)   12.38	15.27	(85.0)   81.1	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.    : 12E169                             Date Extracted: 05/29/12 15:12
Sample ID    : MBLK1S                             Date Analyzed: 06/02/12 12:09
Lab Samp ID  : 60E037SB                           Dilution Factor: 1
Lab File ID  : SF01051A                           Matrix          : SOIL
Ext Btch ID  : CPE037S                             % Moisture      : NA
Calib. Ref.  : SF01048A                           Instrument ID    : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(11.78)   11.50	13.33	(88.4)   86.2	45-120
TETRACHLORO-M-XYLENE	(11.94)   11.71	13.33	(89.5)   87.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12E169                           Date Extracted: 06/04/12 16:13
Sample ID    : MBLK2S                           Date Analyzed: 06/05/12 13:41
Lab Samp ID  : 60F002SB                         Dilution Factor: 1
Lab File ID  : SF05008A                        Matrix          : SOIL
Ext Btch ID  : CPF002S                          % Moisture     : NA
Calib. Ref.  : SF05006A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.55   (11.76)	13.33	86.7   (88.2)	45-120
TETRACHLORO-M-XYLENE	(11.50)   11.01	13.33	(86.3)   82.6	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E037SB 60E037SL 60E037SC  
LAB FILE ID: SF01051A SF01052A SF01053A  
DATE EXTRACTED: 05/29/1215:12 05/29/1215:12 05/29/1215:12 DATE COLLECTED: NA  
DATE ANALYZED: 06/02/1212:09 06/02/1212:43 06/02/1213:18 DATE RECEIVED: 05/29/12  
PREP. BATCH: CPE037S CPE037S CPE037S  
CALIB. REF: SF01048A SF01048A SF01048A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	151   (154)	91   (92)	167	150   (154)	90   (92)	1   (0)	50-130	50
Aroclor 1260	(ND)   ND	167	(166)   160	(100)   96	167	(159)   154	(95)   92	(4)   4	60-150	50
Aroclor 5460	(ND)   ND	83.3	(91.0)   89.1	(109)   107	83.3	(92.3)   91.1	(111)   109	(1)   2	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(11.99)   11.71	(90.0)   87.9	13.33	(12.47)   12.20	(93.5)   91.5	45-120
Tetrachloro-m-xylene	13.33	(11.38)   11.22	(85.3)   84.1	13.33	(12.18)   12.05	(91.4)   90.4	10-160

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2S  
LAB SAMP ID: 60F002SB 60F002SL 60F002SC  
LAB FILE ID: SF05008A SF05009A SF05010A  
DATE EXTRACTED: 06/04/1216:13 06/04/1216:13 06/04/1216:13 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1213:41 06/05/1214:15 06/05/1214:50 DATE RECEIVED: 06/04/12  
PREP. BATCH: CPF002S CPF002S CPF002S  
CALIB. REF: SF05006A SF05006A SF05006A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(150)   143	(90)   86	167	(153)   146	(92)   88	(2)   2	50-130	50
Aroclor 1260	(ND)   ND	167	159   (160)	95   (96)	167	(166)   163	(100)   98	(4)   2	60-150	50
Aroclor 5460	(ND)   ND	83.3	(91.4)   88.4	(110)   106	83.3	(90.3)   87.9	(108)   105	(1)   1	50-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	11.15   (11.60)	83.7   (87.0)	13.33	11.54   (11.86)	86.5   (89.0)	45-120
Tetrachloro-m-xylene	13.33	(11.17)   10.65	(83.8)   79.9	13.33	(11.06)   10.53	(82.9)   79.0	10-160

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/22/12
Project     : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.    : 12E169                            Date Extracted: 05/31/12 14:45
Sample ID:  SL-730-SA5C-SB-0.0-0.5           Date Analyzed: 06/01/12 18:25
Lab Samp ID: E169-01                          Dilution Factor: 0.976
Lab File ID: 98F01031                        Matrix          : SOIL
Ext Btch ID: IME035S                         % Moisture     : 9.0
Calib. Ref.: 98F01028                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10600	107	12.9
Antimony	0.187J	0.536	0.107
Arsenic	3.25	0.536	0.215
Barium	71.9	0.536	0.215
Beryllium	0.512J	0.536	0.0536
Boron	ND	5.36	2.68
Cadmium	0.165J	0.536	0.0536
Calcium	1770	21.5	10.7
Chromium	12.9	0.536	0.215
Cobalt	4.43	0.536	0.0536
Copper	6.25	0.536	0.215
Iron	15700	107	10.7
Lead	4.56	0.536	0.107
Magnesium	3260	10.7	5.36
Manganese	168	0.536	0.268
Molybdenum	0.491J	0.536	0.0536
Nickel	7.55	0.536	0.215
Potassium	1990	107	32.2
Selenium	ND	0.536	0.215
Silver	ND	0.536	0.0536
Sodium	80.8J	107	53.6
Strontium	13.9	0.536	0.268
Thallium	0.219J	0.429	0.0536
Tin	ND	10.7	5.36
Titanium	804	1.07	0.536
Vanadium	27.2	0.536	0.0536
Zinc	37.3	5.36	1.61
Lithium	14.8	2.15	1.07
Phosphorus	219	12.9	6.44
Zirconium	ND	5.36	2.68

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/22/12
Project     : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.    : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID:  SL-730-SA5C-SB-4.0-5.0           Date Analyzed: 06/01/12 18:29
Lab Samp ID: E169-02                          Dilution Factor: 0.971
Lab File ID: 98F01032                        Matrix          : SOIL
Ext Btch ID: IME035S                         % Moisture     : 11.4
Calib. Ref.: 98F01028                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11000	110	13.2
Antimony	0.202J	0.548	0.110
Arsenic	3.36	0.548	0.219
Barium	110	0.548	0.219
Beryllium	0.557	0.548	0.0548
Boron	ND	5.48	2.74
Cadmium	0.209J	0.548	0.0548
Calcium	1810	21.9	11.0
Chromium	15.6	0.548	0.219
Cobalt	5.39	0.548	0.0548
Copper	9.78	0.548	0.219
Iron	18000	110	11.0
Lead	4.73	0.548	0.110
Magnesium	3560	11.0	5.48
Manganese	313	0.548	0.274
Molybdenum	0.637	0.548	0.0548
Nickel	9.73	0.548	0.219
Potassium	3020	110	32.9
Selenium	ND	0.548	0.219
Silver	ND	0.548	0.0548
Sodium	130	110	54.8
Strontium	19.9	0.548	0.274
Thallium	0.254J	0.438	0.0548
Tin	ND	11.0	5.48
Titanium	830	1.10	0.548
Vanadium	30.0	0.548	0.0548
Zinc	47.1	5.48	1.64
Lithium	14.5	2.19	1.10
Phosphorus	463	13.2	6.58
Zirconium	ND	5.48	2.74

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/22/12
Project     : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.    : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID:  SL-730-SA5C-SB-9.0-10.0          Date Analyzed: 06/01/12 18:34
Lab Samp ID: E169-04                          Dilution Factor: 0.990
Lab File ID: 98F01033                         Matrix          : SOIL
Ext Btch ID: IME035S                          % Moisture     : 12.1
Calib. Ref.: 98F01028                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17200	113	13.5
Antimony	0.262J	0.563	0.113
Arsenic	4.50	0.563	0.225
Barium	120	0.563	0.225
Beryllium	0.791	0.563	0.0563
Boron	ND	5.63	2.82
Cadmium	0.118J	0.563	0.0563
Calcium	2540	22.5	11.3
Chromium	19.7	0.563	0.225
Cobalt	5.05	0.563	0.0563
Copper	8.26	0.563	0.225
Iron	22200	113	11.3
Lead	5.47	0.563	0.113
Magnesium	4710	11.3	5.63
Manganese	147	0.563	0.282
Molybdenum	0.594	0.563	0.0563
Nickel	11.2	0.563	0.225
Potassium	1640	113	33.8
Selenium	ND	0.563	0.225
Silver	ND	0.563	0.0563
Sodium	193	113	56.3
Strontium	24.9	0.563	0.282
Thallium	0.254J	0.451	0.0563
Tin	ND	11.3	5.63
Titanium	863	1.13	0.563
Vanadium	37.0	0.563	0.0563
Zinc	47.8	5.63	1.69
Lithium	24.3	2.25	1.13
Phosphorus	171	13.5	6.76
Zirconium	ND	5.63	2.82

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.     : 12E169                            Date Extracted: 05/31/12 14:45
Sample ID   : SL-731-SA5C-SB-0.0-0.5           Date Analyzed: 06/01/12 18:39
Lab Samp ID : E169-06                           Dilution Factor: 0.966
Lab File ID : 98F01034                          Matrix          : SOIL
Ext Btch ID : IME035S                           % Moisture     : 9.6
Calib. Ref. : 98F01028                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14200	107	12.8
Antimony	0.214J	0.534	0.107
Arsenic	3.95	0.534	0.214
Barium	102	0.534	0.214
Beryllium	0.629	0.534	0.0534
Boron	6.03	5.34	2.67
Cadmium	0.172J	0.534	0.0534
Calcium	2250	21.4	10.7
Chromium	17.6	0.534	0.214
Cobalt	5.59	0.534	0.0534
Copper	7.69	0.534	0.214
Iron	19500	107	10.7
Lead	5.19	0.534	0.107
Magnesium	4360	10.7	5.34
Manganese	245	0.534	0.267
Molybdenum	0.659	0.534	0.0534
Nickel	9.60	0.534	0.214
Potassium	2680	107	32.1
Selenium	ND	0.534	0.214
Silver	ND	0.534	0.0534
Sodium	107	107	53.4
Strontium	19.4	0.534	0.267
Thallium	0.245J	0.427	0.0534
Tin	ND	10.7	5.34
Titanium	1040	1.07	0.534
Vanadium	36.3	0.534	0.0534
Zinc	53.3	5.34	1.60
Lithium	18.7	2.14	1.07
Phosphorus	262	12.8	6.41
Zirconium	ND	5.34	2.67

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/22/12
Project     : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.    : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID:  SL-731-SA5C-SB-4.0-5.0           Date Analyzed: 06/01/12 18:43
Lab Samp ID: E169-07                          Dilution Factor: 0.935
Lab File ID: 98F01035                         Matrix          : SOIL
Ext Btch ID: IME035S                          % Moisture     : 12.0
Calib. Ref.: 98F01028                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10600	106	12.7
Antimony	0.194J	0.531	0.106
Arsenic	2.95	0.531	0.213
Barium	115	0.531	0.213
Beryllium	0.499J	0.531	0.0531
Boron	8.04	5.31	2.66
Cadmium	0.275J	0.531	0.0531
Calcium	1900	21.3	10.6
Chromium	15.9	0.531	0.213
Cobalt	5.30	0.531	0.0531
Copper	10.6	0.531	0.213
Iron	17200	106	10.6
Lead	4.63	0.531	0.106
Magnesium	3470	10.6	5.31
Manganese	284	0.531	0.266
Molybdenum	0.760	0.531	0.0531
Nickel	9.93	0.531	0.213
Potassium	3500	106	31.9
Selenium	ND	0.531	0.213
Silver	ND	0.531	0.0531
Sodium	82.4J	106	53.1
Strontium	18.0	0.531	0.266
Thallium	0.257J	0.425	0.0531
Tin	ND	10.6	5.31
Titanium	840	1.06	0.531
Vanadium	28.5	0.531	0.0531
Zinc	51.6	5.31	1.59
Lithium	13.9	2.12	1.06
Phosphorus	412	12.7	6.38
Zirconium	ND	5.31	2.66

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.     : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID   : SL-731-SA5C-SB-9.0-10.0         Date Analyzed: 06/01/12 18:48
Lab Samp ID : E169-09                          Dilution Factor: 0.966
Lab File ID : 98F01036                        Matrix         : SOIL
Ext Btch ID : IME035S                         % Moisture    : 8.8
Calib. Ref. : 98F01028                       Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15100	106	12.7
Antimony	0.231J	0.530	0.106
Arsenic	3.55	0.530	0.212
Barium	125	0.530	0.212
Beryllium	0.620	0.530	0.0530
Boron	ND	5.30	2.65
Cadmium	0.126J	0.530	0.0530
Calcium	2860	21.2	10.6
Chromium	18.6	0.530	0.212
Cobalt	5.86	0.530	0.0530
Copper	7.12	0.530	0.212
Iron	21900	106	10.6
Lead	4.04	0.530	0.106
Magnesium	5820	10.6	5.30
Manganese	224	0.530	0.265
Molybdenum	0.518J	0.530	0.0530
Nickel	11.7	0.530	0.212
Potassium	2210	106	31.8
Selenium	ND	0.530	0.212
Silver	ND	0.530	0.0530
Sodium	143	106	53.0
Strontium	22.4	0.530	0.265
Thallium	0.246J	0.424	0.0530
Tin	ND	10.6	5.30
Titanium	1250	1.06	0.530
Vanadium	34.9	0.530	0.0530
Zinc	60.1	5.30	1.59
Lithium	24.7	2.12	1.06
Phosphorus	346	12.7	6.36
Zirconium	ND	5.30	2.65

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/22/12
Project     : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.    : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID:  SL-733-SA5C-SB-0.0-0.5           Date Analyzed: 06/01/12 18:52
Lab Samp ID: E169-11                          Dilution Factor: 0.948
Lab File ID: 98F01037                         Matrix          : SOIL
Ext Btch ID: IME035S                          % Moisture     : 8.6
Calib. Ref.: 98F01028                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12000	104	12.4
Antimony	0.221J	0.519	0.104
Arsenic	4.65	0.519	0.207
Barium	102	0.519	0.207
Beryllium	0.563	0.519	0.0519
Boron	ND	5.19	2.59
Cadmium	0.163J	0.519	0.0519
Calcium	2400	20.7	10.4
Chromium	16.3	0.519	0.207
Cobalt	5.67	0.519	0.0519
Copper	7.55	0.519	0.207
Iron	19500	104	10.4
Lead	5.16	0.519	0.104
Magnesium	4220	10.4	5.19
Manganese	215	0.519	0.259
Molybdenum	0.594	0.519	0.0519
Nickel	9.84	0.519	0.207
Potassium	2500	104	31.1
Selenium	ND	0.519	0.207
Silver	ND	0.519	0.0519
Sodium	83.0J	104	51.9
Strontium	17.9	0.519	0.259
Thallium	0.246J	0.415	0.0519
Tin	ND	10.4	5.19
Titanium	909	1.04	0.519
Vanadium	33.1	0.519	0.0519
Zinc	46.0	5.19	1.56
Lithium	18.8	2.07	1.04
Phosphorus	310	12.4	6.22
Zirconium	ND	5.19	2.59

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/22/12
Project     : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.    : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID:  SL-733-SA5C-SB-4.0-5.0           Date Analyzed: 06/01/12 19:15
Lab Samp ID: E169-12                          Dilution Factor: 0.930
Lab File ID: 98F01042                         Matrix          : SOIL
Ext Btch ID: IME035S                          % Moisture     : 9.7
Calib. Ref.: 98F01040                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13000	103	12.4
Antimony	0.200J	0.515	0.103
Arsenic	3.94	0.515	0.206
Barium	93.8	0.515	0.206
Beryllium	0.609	0.515	0.0515
Boron	ND	5.15	2.57
Cadmium	0.109J	0.515	0.0515
Calcium	1810	20.6	10.3
Chromium	16.1	0.515	0.206
Cobalt	5.31	0.515	0.0515
Copper	6.10	0.515	0.206
Iron	18000	103	10.3
Lead	4.89	0.515	0.103
Magnesium	3680	10.3	5.15
Manganese	297	0.515	0.257
Molybdenum	0.554	0.515	0.0515
Nickel	10.3	0.515	0.206
Potassium	2030	103	30.9
Selenium	ND	0.515	0.206
Silver	0.0570J	0.515	0.0515
Sodium	95.2J	103	51.5
Strontium	18.5	0.515	0.257
Thallium	0.248J	0.412	0.0515
Tin	ND	10.3	5.15
Titanium	908	1.03	0.515
Vanadium	31.9	0.515	0.0515
Zinc	40.0	5.15	1.54
Lithium	16.1	2.06	1.03
Phosphorus	220	12.4	6.18
Zirconium	ND	5.15	2.57

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/22/12
Project     : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.    : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID:  SL-733-SA5C-SB-9.0-10.0          Date Analyzed: 06/01/12 19:20
Lab Samp ID: E169-14                          Dilution Factor: 0.980
Lab File ID: 98F01043                         Matrix          : SOIL
Ext Btch ID: IME035S                          % Moisture     : 11.0
Calib. Ref.: 98F01040                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11500	110	13.2
Antimony	0.163J	0.551	0.110
Arsenic	3.04	0.551	0.220
Barium	92.2	0.551	0.220
Beryllium	0.592	0.551	0.0551
Boron	ND	5.51	2.75
Cadmium	0.0848J	0.551	0.0551
Calcium	3830	22.0	11.0
Chromium	16.5	0.551	0.220
Cobalt	6.19	0.551	0.0551
Copper	5.77	0.551	0.220
Iron	20600	110	11.0
Lead	3.59	0.551	0.110
Magnesium	4690	11.0	5.51
Manganese	210	0.551	0.275
Molybdenum	0.430J	0.551	0.0551
Nickel	8.54	0.551	0.220
Potassium	2330	110	33.0
Selenium	ND	0.551	0.220
Silver	ND	0.551	0.0551
Sodium	105J	110	55.1
Strontium	22.5	0.551	0.275
Thallium	0.251J	0.440	0.0551
Tin	ND	11.0	5.51
Titanium	1180	1.10	0.551
Vanadium	31.5	0.551	0.0551
Zinc	45.0	5.51	1.65
Lithium	20.4	2.20	1.10
Phosphorus	387	13.2	6.61
Zirconium	ND	5.51	2.75

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/22/12
Project     : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.    : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID   : SL-682-SA5C-SB-0.0-0.5         Date Analyzed: 06/01/12 19:24
Lab Samp ID: E169-16                           Dilution Factor: 0.995
Lab File ID: 98F01044                          Matrix          : SOIL
Ext Btch ID: IME035S                           % Moisture     : 10.0
Calib. Ref.: 98F01040                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12700	111	13.3
Antimony	0.208J	0.553	0.111
Arsenic	4.15	0.553	0.221
Barium	87.5	0.553	0.221
Beryllium	0.578	0.553	0.0553
Boron	3.35J	5.53	2.76
Cadmium	0.204J	0.553	0.0553
Calcium	3110	22.1	11.1
Chromium	16.7	0.553	0.221
Cobalt	5.05	0.553	0.0553
Copper	6.45	0.553	0.221
Iron	19600	111	11.1
Lead	5.05	0.553	0.111
Magnesium	4440	11.1	5.53
Manganese	231	0.553	0.276
Molybdenum	0.425J	0.553	0.0553
Nickel	9.30	0.553	0.221
Potassium	2340	111	33.2
Selenium	ND	0.553	0.221
Silver	ND	0.553	0.0553
Sodium	71.3J	111	55.3
Strontium	17.1	0.553	0.276
Thallium	0.258J	0.442	0.0553
Tin	ND	11.1	5.53
Titanium	1010	1.11	0.553
Vanadium	34.1	0.553	0.0553
Zinc	175	5.53	1.66
Lithium	21.9	2.21	1.11
Phosphorus	255	13.3	6.63
Zirconium	ND	5.53	2.76

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/22/12
Project     : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.    : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID:  SL-682-SA5C-SB-4.0-5.0           Date Analyzed: 06/01/12 19:29
Lab Samp ID: E169-17                         Dilution Factor: 0.957
Lab File ID: 98F01045                        Matrix          : SOIL
Ext Btch ID: IME035S                          % Moisture     : 12.0
Calib. Ref.: 98F01040                        Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16200	109	13.0
Antimony	0.217J	0.544	0.109
Arsenic	4.21	0.544	0.217
Barium	109	0.544	0.217
Beryllium	0.743	0.544	0.0544
Boron	ND	5.44	2.72
Cadmium	0.114J	0.544	0.0544
Calcium	1460	21.7	10.9
Chromium	17.2	0.544	0.217
Cobalt	4.30	0.544	0.0544
Copper	5.09	0.544	0.217
Iron	18900	109	10.9
Lead	5.46	0.544	0.109
Magnesium	3730	10.9	5.44
Manganese	135	0.544	0.272
Molybdenum	0.507J	0.544	0.0544
Nickel	8.91	0.544	0.217
Potassium	1440	109	32.6
Selenium	ND	0.544	0.217
Silver	0.0763J	0.544	0.0544
Sodium	313	109	54.4
Strontium	19.6	0.544	0.272
Thallium	0.237J	0.435	0.0544
Tin	ND	10.9	5.44
Titanium	861	1.09	0.544
Vanadium	35.3	0.544	0.0544
Zinc	33.7	5.44	1.63
Lithium	16.6	2.17	1.09
Phosphorus	82.3	13.0	6.53
Zirconium	ND	5.44	2.72

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/22/12
Project    : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.    : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID  : SL-682-SA5C-SB-9.0-10.0         Date Analyzed: 06/01/12 19:33
Lab Samp ID: E169-19                           Dilution Factor: 0.952
Lab File ID: 98F01046                           Matrix          : SOIL
Ext Btch ID: IME035S                            % Moisture     : 12.7
Calib. Ref.: 98F01040                           Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13700	109	13.1
Antimony	0.170J	0.545	0.109
Arsenic	5.13	0.545	0.218
Barium	63.2	0.545	0.218
Beryllium	0.655	0.545	0.0545
Boron	ND	5.45	2.73
Cadmium	0.0697J	0.545	0.0545
Calcium	1600	21.8	10.9
Chromium	16.6	0.545	0.218
Cobalt	2.59	0.545	0.0545
Copper	5.21	0.545	0.218
Iron	20100	109	10.9
Lead	4.75	0.545	0.109
Magnesium	3820	10.9	5.45
Manganese	91.8	0.545	0.273
Molybdenum	0.331J	0.545	0.0545
Nickel	6.13	0.545	0.218
Potassium	1170	109	32.7
Selenium	ND	0.545	0.218
Silver	ND	0.545	0.0545
Sodium	950	109	54.5
Strontium	21.1	0.545	0.273
Thallium	0.200J	0.436	0.0545
Tin	ND	10.9	5.45
Titanium	853	1.09	0.545
Vanadium	30.6	0.545	0.0545
Zinc	34.9	5.45	1.64
Lithium	13.9	2.18	1.09
Phosphorus	108	13.1	6.54
Zirconium	ND	5.45	2.73

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/22/12
Project      : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.     : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID   : SL-732-SA5C-SB-5.0-6.0          Date Analyzed: 06/01/12 19:38
Lab Samp ID : E169-21                           Dilution Factor: 0.962
Lab File ID : 98F01047                          Matrix          : SOIL
Ext Btch ID : IME035S                           % Moisture     : 10.7
Calib. Ref. : 98F01040                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12500	108	12.9
Antimony	0.178J	0.539	0.108
Arsenic	3.35	0.539	0.215
Barium	105	0.539	0.215
Beryllium	0.584	0.539	0.0539
Boron	ND	5.39	2.69
Cadmium	0.164J	0.539	0.0539
Calcium	1860	21.5	10.8
Chromium	15.4	0.539	0.215
Cobalt	5.78	0.539	0.0539
Copper	7.38	0.539	0.215
Iron	18000	108	10.8
Lead	4.83	0.539	0.108
Magnesium	3720	10.8	5.39
Manganese	263	0.539	0.269
Molybdenum	0.542	0.539	0.0539
Nickel	10.1	0.539	0.215
Potassium	2950	108	32.3
Selenium	ND	0.539	0.215
Silver	ND	0.539	0.0539
Sodium	89.5J	108	53.9
Strontium	18.1	0.539	0.269
Thallium	0.252J	0.431	0.0539
Tin	ND	10.8	5.39
Titanium	924	1.08	0.539
Vanadium	30.7	0.539	0.0539
Zinc	45.5	5.39	1.62
Lithium	15.7	2.15	1.08
Phosphorus	265	12.9	6.46
Zirconium	ND	5.39	2.69

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/22/12
Project    : SSFL PHASE 3                     Date Received: 05/22/12
SDG NO.    : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID  : SL-732-SA5C-SB-10.5-11.5        Date Analyzed: 06/01/12 17:58
Lab Samp ID: E169-23                          Dilution Factor: 0.971
Lab File ID: 98F01025                         Matrix          : SOIL
Ext Btch ID: IME035S                          % Moisture     : 6.7
Calib. Ref.: 98F01016                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9950	104	12.5
Antimony	0.178J	0.520	0.104
Arsenic	3.16	0.520	0.208
Barium	80.6	0.520	0.208
Beryllium	0.441J	0.520	0.0520
Boron	ND	5.20	2.60
Cadmium	0.0906J	0.520	0.0520
Calcium	2590	20.8	10.4
Chromium	14.1	0.520	0.208
Cobalt	4.82	0.520	0.0520
Copper	6.01	0.520	0.208
Iron	19200	104	10.4
Lead	2.52	0.520	0.104
Magnesium	4950	10.4	5.20
Manganese	208	0.520	0.260
Molybdenum	0.297J	0.520	0.0520
Nickel	9.43	0.520	0.208
Potassium	2990	104	31.2
Selenium	ND	0.520	0.208
Silver	ND	0.520	0.0520
Sodium	104	104	52.0
Strontium	18.9	0.520	0.260
Thallium	0.251J	0.416	0.0520
Tin	ND	10.4	5.20
Titanium	1270	1.04	0.520
Vanadium	31.2	0.520	0.0520
Zinc	52.0	5.20	1.56
Lithium	20.3	2.08	1.04
Phosphorus	402	12.5	6.24
Zirconium	ND	5.20	2.60

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/31/12
SDG NO.    : 12E169                           Date Extracted: 05/31/12 14:45
Sample ID: MBLK1S                             Date Analyzed: 06/01/12 17:39
Lab Samp ID: IME035SB                         Dilution Factor: 1
Lab File ID: 98F01021                        Matrix          : SOIL
Ext Btch ID: IME035S                          % Moisture     : NA
Calib. Ref.: 98F01016                        Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E169  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME035SB IME035SL IME035SC  
LAB FILE ID: 98F01021 98F01019 98F01020  
DATIME EXTRACTD: 05/31/1214:45 05/31/1214:45 05/31/1214:45 DATE COLLECTED: NA  
DATIME ANALYZD: 06/01/1217:39 06/01/1217:31 06/01/1217:35 DATE RECEIVED: 05/31/12  
PREP. BATCH: IME035S IME035S IME035S  
CALIB. REF: 98F01016 98F01016 98F01016

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2250	90	2500	2320	93	3	80-120	20
Antimony	ND	25.0	24.0	96	25.0	24.1	96	0	80-120	20
Arsenic	ND	25.0	23.5	94	25.0	23.3	93	1	80-120	20
Barium	ND	25.0	24.0	96	25.0	23.9	96	0	80-120	20
Beryllium	ND	25.0	25.1	100	25.0	25.3	101	1	80-120	20
Boron	ND	25.0	25.7	103	25.0	25.9	104	1	80-120	20
Cadmium	ND	25.0	23.9	96	25.0	23.8	95	0	80-120	20
Calcium	ND	2500	2460	98	2500	2510	100	2	80-120	20
Chromium	ND	25.0	23.8	95	25.0	23.8	95	0	80-120	20
Cobalt	ND	25.0	24.0	96	25.0	24.3	97	1	80-120	20
Copper	ND	25.0	23.7	95	25.0	23.6	94	0	80-120	20
Iron	ND	2500	2460	99	2500	2510	100	2	80-120	20
Lead	ND	25.0	24.3	97	25.0	23.9	96	1	80-120	20
Magnesium	ND	2500	2260	91	2500	2330	93	3	80-120	20
Manganese	ND	25.0	24.2	97	25.0	24.6	98	2	80-120	20
Molybdenum	ND	25.0	23.4	94	25.0	23.6	95	1	80-120	20
Nickel	ND	25.0	23.7	95	25.0	23.6	95	0	80-120	20
Potassium	ND	2500	2420	97	2500	2470	99	2	80-120	20
Selenium	ND	25.0	23.4	94	25.0	23.3	93	1	80-120	20
Silver	ND	25.0	24.4	98	25.0	24.1	96	1	80-120	20
Sodium	ND	2500	2360	95	2500	2410	96	2	80-120	20
Strontium	ND	25.0	24.3	97	25.0	24.3	97	0	80-120	20
Thallium	ND	25.0	24.7	99	25.0	24.0	96	3	80-120	20
Tin	ND	25.0	26.3	105	25.0	26.4	105	0	80-120	20
Titanium	ND	25.0	24.3	97	25.0	24.7	99	2	80-120	20
Vanadium	ND	25.0	23.8	95	25.0	23.6	95	1	80-120	20
Zinc	ND	50.0	46.6	93	50.0	46.3	93	1	80-120	20
Lithium	ND	25.0	24.6	98	25.0	24.8	99	1	80-120	20
Phosphorus	ND	250	219	88	250	226	90	3	80-120	20
Zirconium	ND	25.0	24.1	97	25.0	24.3	97	1	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E169  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 6.7  
DILTN FACTR: 0.971 0.948 0.971  
SAMPLE ID: SL-732-SA5C-SB-10.5-11.5  
CONTROL NO.: E169-23 E169-23M E169-23S  
LAB FILE ID: 98F01025 98F01022 98F01023  
DATIME EXTRACTD: 05/31/1214:45 05/31/1214:45 05/31/1214:45 DATE COLLECTED: 05/22/12  
DATIME ANALYZD: 06/01/1217:58 06/01/1217:44 06/01/1217:49 DATE RECEIVED: 05/22/12  
PREP. BATCH: IME035S IME035S IME035S  
CALIB. REF: 98F01016 98F01016 98F01016

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	9950	2540	11000	42*	2600	11500	61*	5	75-125	20
Antimony	0.178J	25.4	22.0	86	26.0	22.3	85	1	75-125	20
Arsenic	3.16	25.4	26.4	92	26.0	26.5	90	0	75-125	20
Barium	80.6	25.4	102	86	26.0	107	101	4	75-125	20
Beryllium	0.441J	25.4	26.3	102	26.0	25.9	98	1	75-125	20
Boron	ND	25.4	26.2	103	26.0	25.9	100	1	75-125	20
Cadmium	0.0906J	25.4	23.9	94	26.0	24.3	93	2	75-125	20
Calcium	2590	2540	4760	85	2600	4810	85	1	75-125	20
Chromium	14.1	25.4	36.5	88	26.0	36.1	84	1	75-125	20
Cobalt	4.82	25.4	27.1	88	26.0	27.3	86	1	75-125	20
Copper	6.01	25.4	28.1	87	26.0	27.8	84	1	75-125	20
Iron	19200	2540	20500	48*	2600	21300	80	4	75-125	20
Lead	2.52	25.4	26.4	94	26.0	26.7	93	1	75-125	20
Magnesium	4950	2540	6550	63*	2600	6890	74*	5	75-125	20
Manganese	208	25.4	211	15*	26.0	219	43*	3	75-125	20
Molybdenum	0.297J	25.4	24.1	94	26.0	24.8	94	3	75-125	20
Nickel	9.43	25.4	30.6	83	26.0	31.4	85	3	75-125	20
Potassium	2990	2540	5050	81	2600	5210	85	3	75-125	20
Selenium	ND	25.4	23.2	91	26.0	23.6	91	2	75-125	20
Silver	ND	25.4	24.0	95	26.0	24.9	96	3	75-125	20
Sodium	104	2540	2270	85	2600	2330	85	2	75-125	20
Strontium	18.9	25.4	41.6	89	26.0	42.7	92	3	75-125	20
Thallium	0.251J	25.4	24.1	94	26.0	24.6	94	2	75-125	20
Tin	ND	25.4	27.4	108	26.0	28.2	108	3	75-125	20
Titanium	1270	25.4	1200	-244*	26.0	1260	-8*	5	75-125	20
Vanadium	31.2	25.4	52.6	84	26.0	53.2	85	1	75-125	20
Zinc	52.0	50.8	94.1	83	52.0	99.1	90	5	75-125	20
Lithium	20.3	25.4	45.5	99	26.0	46.8	102	3	75-125	20
Phosphorus	402	254	604	80	260	587	71*	3	75-125	20
Zirconium	ND	25.4	23.6	93	26.0	23.9	92	1	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E169  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 6.7  
DILTN FACTR: 0.971 0.971  
SAMPLE ID: SL-732-SA5C-SB-10.5-11.5  
CONTROL NO.: E169-23 E169-23A  
LAB FILE ID: 98F01025 98F01030  
DATIME EXTRACTD: 05/31/1214:45 05/31/1214:45 DATE COLLECTED: 05/22/12  
DATIME ANALYZD: 06/01/1217:58 06/01/1218:20 DATE RECEIVED: 05/22/12  
PREP. BATCH: IME035S IME035S  
CALIB. REF: 98F01016 98F01028

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	9950	2600	12100	84	75-125
Antimony	0.178J	26.0	26.1	100	75-125
Arsenic	3.16	26.0	27.6	94	75-125
Barium	80.6	26.0	108	104	75-125
Beryllium	0.441J	26.0	27.2	103	75-125
Boron	ND	26.0	27.5	106	75-125
Cadmium	0.0906J	26.0	25.1	96	75-125
Calcium	2590	2600	5190	100	75-125
Chromium	14.1	26.0	36.9	87	75-125
Cobalt	4.82	26.0	28.3	90	75-125
Copper	6.01	26.0	28.3	86	75-125
Iron	19200	2600	21500	89	75-125
Lead	2.52	26.0	27.5	96	75-125
Magnesium	4950	2600	7350	92	75-125
Manganese	208	26.0	227	75	75-125
Molybdenum	0.297J	26.0	25.9	98	75-125
Nickel	9.43	26.0	31.7	85	75-125
Potassium	2990	2600	5580	100	75-125
Selenium	ND	26.0	24.1	93	75-125
Silver	ND	26.0	25.1	96	75-125
Sodium	104	2600	2520	93	75-125
Strontium	18.9	26.0	44.0	97	75-125
Thallium	0.251J	26.0	25.5	97	75-125
Tin	ND	26.0	28.9	111	75-125
Titanium	1270	26.0	1280	46*	75-125
Vanadium	31.2	26.0	53.9	87	75-125
Zinc	52.0	26.0	99.2	91	75-125
Lithium	20.3	26.0	48.9	110	75-125
Phosphorus	402	260	635	90	75-125
Zirconium	ND	26.0	26.6	102	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 6.7  
DILUTION FACTOR: 0.971 4.85  
SAMPLE ID: SL-732-SA5C-SB SL-732-SA5C-SB  
EMAX SAMP ID: E169-23 E169-23J  
LAB FILE ID: 98F01025 98F01026  
DATE EXTRACTED: 05/31/1214:45 05/31/1214:45 DATE COLLECTED: 05/22/12  
DATE ANALYZED: 06/01/1217:58 06/01/1218:02 DATE RECEIVED: 05/22/12  
PREP. BATCH: IME035S IME035S  
CALIB. REF: 98F01016 98F01016

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	9950	10300	3	10
Antimony	0.178J	ND	NA	10
Arsenic	3.16	3.25	3	10
Barium	80.6	78.4	3	10
Beryllium	0.441J	0.424J	NA	10
Boron	ND	ND	0	10
Cadmium	0.0906J	ND	NA	10
Calcium	2590	2770	7	10
Chromium	14.1	15.2	8	10
Cobalt	4.82	5.18	8	10
Copper	6.01	6.69	11*	10
Iron	19200	20800	8	10
Lead	2.52	2.54J	NA	10
Magnesium	4950	5190	5	10
Manganese	208	224	8	10
Molybdenum	0.297J	0.324J	NA	10
Nickel	9.43	10.2	8	10
Potassium	2990	3080	3	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	104	ND	NA	10
Strontium	18.9	18.7	1	10
Thallium	0.251J	0.263J	NA	10
Tin	ND	ND	0	10
Titanium	1270	1360	7	10
Vanadium	31.2	33.1	6	10
Zinc	52.0	53.4	3	10
Lithium	20.3	20.4	1	10
Phosphorus	402	390	3	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E169

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS		RL		MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection		Received DATETIME
		(mg/kg)		(mg/kg)								DATETIME	DATETIME	
MBLK1S	HGE027SB	ND	1 NA	0.100	0.0500	05/31/1214:32	05/30/1217:00	M47E022010	M47E022008	HGE027S	NA	05/30/12	05/30/12	
LCS1S	HGE027SL	0.900	1 NA	0.100	0.0500	05/31/1214:34	05/30/1217:00	M47E022011	M47E022008	HGE027S	NA	05/30/12	05/30/12	
LCD1S	HGE027SC	0.898	1 NA	0.100	0.0500	05/31/1214:36	05/30/1217:00	M47E022012	M47E022008	HGE027S	NA	05/30/12	05/30/12	
SL-730-SA5C-SB-0.0-0.5AS	E169-01A	1.01	0.998 9.0	0.110	0.0548	05/31/1214:38	05/30/1217:00	M47E022013	M47E022008	HGE027S	05/22/12	05/22/12	05/22/12	
SL-730-SA5C-SB-0.0-0.5	E169-01	ND	0.998 9.0	0.110	0.0548	05/31/1214:40	05/30/1217:00	M47E022014	M47E022008	HGE027S	05/22/12	05/22/12	05/22/12	
SL-730-SA5C-SB-0.0-0.5DL	E169-01J	ND	4.99 9.0	0.548	0.274	05/31/1214:43	05/30/1217:00	M47E022015	M47E022008	HGE027S	05/22/12	05/22/12	05/22/12	
SL-730-SA5C-SB-0.0-0.5MS	E169-01M	1.04	1.00 9.0	0.110	0.0549	05/31/1214:45	05/30/1217:00	M47E022016	M47E022008	HGE027S	05/22/12	05/22/12	05/22/12	
SL-730-SA5C-SB-0.0-0.5MSDE	E169-01S	1.05	0.997 9.0	0.110	0.0548	05/31/1214:47	05/30/1217:00	M47E022017	M47E022008	HGE027S	05/22/12	05/22/12	05/22/12	
SL-730-SA5C-SB-4.0-5.0	E169-02	ND	0.995 11.4	0.112	0.0562	05/31/1214:49	05/30/1217:00	M47E022018	M47E022008	HGE027S	05/22/12	05/22/12	05/22/12	
SL-730-SA5C-SB-9.0-10.0	E169-04	ND	1.00 12.1	0.114	0.0569	05/31/1214:52	05/30/1217:00	M47E022019	M47E022008	HGE027S	05/22/12	05/22/12	05/22/12	
SL-731-SA5C-SB-0.0-0.5	E169-06	ND	0.995 9.6	0.110	0.0550	05/31/1214:58	05/30/1217:00	M47E022022	M47E022020	HGE027S	05/22/12	05/22/12	05/22/12	
SL-731-SA5C-SB-4.0-5.0	E169-07	ND	0.993 12.0	0.113	0.0564	05/31/1215:00	05/30/1217:00	M47E022023	M47E022020	HGE027S	05/22/12	05/22/12	05/22/12	
SL-731-SA5C-SB-9.0-10.0	E169-09	ND	0.987 8.8	0.108	0.0541	05/31/1215:02	05/30/1217:00	M47E022024	M47E022020	HGE027S	05/22/12	05/22/12	05/22/12	
SL-733-SA5C-SB-0.0-0.5	E169-11	0.0682J	0.990 8.6	0.108	0.0542	05/31/1215:04	05/30/1217:00	M47E022025	M47E022020	HGE027S	05/22/12	05/22/12	05/22/12	
SL-733-SA5C-SB-4.0-5.0	E169-12	ND	1.00 9.7	0.111	0.0554	05/31/1215:06	05/30/1217:00	M47E022026	M47E022020	HGE027S	05/22/12	05/22/12	05/22/12	
SL-733-SA5C-SB-9.0-10.0	E169-14	ND	0.988 11.0	0.111	0.0555	05/31/1215:09	05/30/1217:00	M47E022027	M47E022020	HGE027S	05/22/12	05/22/12	05/22/12	
SL-682-SA5C-SB-0.0-0.5	E169-16	ND	0.995 10.0	0.111	0.0553	05/31/1215:11	05/30/1217:00	M47E022028	M47E022020	HGE027S	05/22/12	05/22/12	05/22/12	
SL-682-SA5C-SB-4.0-5.0	E169-17	ND	1.00 12.0	0.114	0.0568	05/31/1215:14	05/30/1217:00	M47E022029	M47E022020	HGE027S	05/22/12	05/22/12	05/22/12	
SL-682-SA5C-SB-9.0-10.0	E169-19	ND	0.985 12.7	0.113	0.0564	05/31/1215:16	05/30/1217:00	M47E022030	M47E022020	HGE027S	05/22/12	05/22/12	05/22/12	
SL-732-SA5C-SB-5.0-6.0	E169-21	ND	1.00 10.7	0.112	0.0560	05/31/1215:18	05/30/1217:00	M47E022031	M47E022020	HGE027S	05/22/12	05/22/12	05/22/12	
SL-732-SA5C-SB-10.5-11.5	E169-23	ND	1.00 6.7	0.107	0.0536	05/31/1215:25	05/30/1217:00	M47E022034	M47E022032	HGE027S	05/22/12	05/22/12	05/22/12	

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E169  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE027SB HGE027SL HGE027SC  
LAB FILE ID: M47E022010 M47E022011 M47E022012  
DATIME EXTRCTD: 05/30/1217:00 05/30/1217:00 05/30/1217:00 DATE COLLECTED: NA  
DATIME ANALYZD: 05/31/1214:32 05/31/1214:34 05/31/1214:36 DATE RECEIVED: 05/30/12  
PREP. BATCH: HGE027S HGE027S HGE027S  
CALIB. REF: M47E022008 M47E022008 M47E022008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.9	108	.833	.898	108	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E169  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 9.0  
DILTN FACTR: 0.998 1.00 0.997  
SAMPLE ID: SL-730-SA5C-SB-0.0-0.5  
CONTROL NO.: E169-01 E169-01M E169-01S  
LAB FILE ID: M47E022014 M47E022016 M47E022017  
DATIME EXTRCTD: 05/30/1217:00 05/30/1217:00 05/30/1217:00 DATE COLLECTED: 05/22/12  
DATIME ANALYZD: 05/31/1214:40 05/31/1214:45 05/31/1214:47 DATE RECEIVED: 05/22/12  
PREP. BATCH: HGE027S HGE027S HGE027S  
CALIB. REF: M47E022008 M47E022008 M47E022008

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.915	1.04	113	.913	1.05	115	2	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E169  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 9.0  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: SL-730-SA5C-SB-0.0-0.5  
CONTROL NO.: E169-01 E169-01A  
LAB FILE ID: M47E022014 M47E022013  
DATIME EXTRACTD: 05/30/1217:00 05/30/1217:00 DATE COLLECTED: 05/22/12  
DATIME ANALYZD: 05/31/1214:40 05/31/1214:38 DATE RECEIVED: 05/22/12  
PREP. BATCH: HGE027S HGE027S  
CALIB. REF: M47E022008 M47E022008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.914	1.01	111	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E169  
 METHOD: 7471A

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MATRIX:	SOIL		% MOISTURE:	9.0
DILUTION FACTOR:	0.998	4.99		
SAMPLE ID:	SL-730-SA5C-SB-0.0-	SL-730-SA5C-SB-0.0-		
EMAX SAMP ID:	E169-01	E169-01J		
LAB FILE ID:	M47E022014	M47E022015		
DATE EXTRACTED:	05/30/1217:00	05/30/1217:00	DATE COLLECTED:	05/22/12
DATE ANALYZED:	05/31/1214:40	05/31/1214:43	DATE RECEIVED:	05/22/12
PREP. BATCH:	HGE027S	HGE027S		
CALIB. REF:	M47E022008	M47E022008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
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Mercury	ND	ND	0	10

METHOD 9045D  
PH

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Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E169  
=====

Matrix : SOIL  
Instrument ID : 53  
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SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction		CAL REF	PREP BATCH	Collection		Received DATETIME
								DATETIME	LFID			DATETIME		
SL-730-SA5C-SB-0.0-0.5	E169-01	7.78	1	NA	NA	NA	05/23/1218:48	05/23/1217:57	12PHE027S01	PHE027S	PHE027S	05/22/1208:13	05/22/12	
SL-730-SA5C-SB-4.0-5.0	E169-02	7.63	1	NA	NA	NA	05/23/1218:49	05/23/1217:57	12PHE027S02	PHE027S	PHE027S	05/22/1208:19	05/22/12	
SL-730-SA5C-SB-9.0-10.0	E169-04	7.65	1	NA	NA	NA	05/23/1218:50	05/23/1217:57	12PHE027S03	PHE027S	PHE027S	05/22/1208:23	05/22/12	
SL-731-SA5C-SB-0.0-0.5	E169-06	7.92	1	NA	NA	NA	05/23/1218:52	05/23/1217:57	12PHE027S04	PHE027S	PHE027S	05/22/1210:48	05/22/12	
SL-731-SA5C-SB-4.0-5.0	E169-07	7.43	1	NA	NA	NA	05/23/1218:55	05/23/1217:57	12PHE027S05	PHE027S	PHE027S	05/22/1210:54	05/22/12	
SL-731-SA5C-SB-9.0-10.0	E169-09	8.12	1	NA	NA	NA	05/23/1218:56	05/23/1217:57	12PHE027S06	PHE027S	PHE027S	05/22/1210:57	05/22/12	
SL-731-SA5C-SB-9.0-10.0DUP	E169-09D	8.10	1	NA	NA	NA	05/23/1218:57	05/23/1217:57	12PHE027S07	PHE027S	PHE027S	05/22/1210:57	05/22/12	
SL-733-SA5C-SB-0.0-0.5	E169-11	7.61	1	NA	NA	NA	05/23/1218:58	05/23/1217:57	12PHE027S08	PHE027S	PHE027S	05/22/1209:23	05/22/12	
SL-733-SA5C-SB-4.0-5.0	E169-12	6.90	1	NA	NA	NA	05/23/1219:09	05/23/1217:57	12PHE027S09	PHE027S	PHE027S	05/22/1209:42	05/22/12	
SL-733-SA5C-SB-9.0-10.0	E169-14	8.64	1	NA	NA	NA	05/23/1219:10	05/23/1217:57	12PHE027S10	PHE027S	PHE027S	05/22/1209:58	05/22/12	
SL-682-SA5C-SB-0.0-0.5	E169-16	8.20	1	NA	NA	NA	05/23/1219:11	05/23/1217:57	12PHE027S11	PHE027S	PHE027S	05/22/1214:50	05/22/12	
SL-682-SA5C-SB-4.0-5.0	E169-17	8.07	1	NA	NA	NA	05/23/1219:13	05/23/1217:57	12PHE027S12	PHE027S	PHE027S	05/22/1214:54	05/22/12	
SL-682-SA5C-SB-9.0-10.0	E169-19	8.71	1	NA	NA	NA	05/23/1219:14	05/23/1217:57	12PHE027S13	PHE027S	PHE027S	05/22/1214:58	05/22/12	
SL-732-SA5C-SB-5.0-6.0	E169-21	7.27	1	NA	NA	NA	05/23/1219:16	05/23/1217:57	12PHE027S14	PHE027S	PHE027S	05/22/1213:25	05/22/12	
SL-732-SA5C-SB-10.5-11.5	E169-23	8.90	1	NA	NA	NA	05/23/1219:18	05/23/1217:57	12PHE027S15	PHE027S	PHE027S	05/22/1213:30	05/22/12	

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

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BATCH NO.:	12E169	DATE RECEIVED:	05/22/12
SAMPLE ID:	SL-731-SA5C-SB-9.0-10.0DUP	DATE EXTRACTED:	05/23/1217:57
CONTROL NO.:	E169-09D	DATE ANALYZED:	05/23/1218:57

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.12	8.10	0.02	0.10

METHOD 7199  
HEXAVALENT CHROMIUM

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E169

Matrix : SOIL  
Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF MOIST		RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCE006SB	ND	1	NA	1.00	0.500	05/30/1217:55	05/29/1217:19	IE30003	IE30001	HCE006S	NA	05/29/12
MBLK1S	HCE006SQ	ND	1	NA	1.00	0.500	05/30/1218:05	05/29/1217:19	IE30004	IE30001	HCE006S	NA	05/29/12
LCS1S	CSE006SL	10.4	1	NA	1.00	0.500	05/30/1218:55	05/29/1217:19	IE30006	IE30001	HCE006S	NA	05/29/12
LCS1S	CSE006SX	9.12	1	NA	1.00	0.500	05/30/1219:05	05/29/1217:19	IE30007	IE30001	HCE006S	NA	05/29/12
LCS2S	CIE006SL	196	20	NA	20.0	10.0	05/30/1219:16	05/29/1217:19	IE30008	IE30001	HCE006S	NA	05/29/12
LCS2S	CIE006SX	201	20	NA	20.0	10.0	05/30/1219:26	05/29/1217:19	IE30009	IE30001	HCE006S	NA	05/29/12
SL-730-SA5C-SB-0.0-0.5	E169-01	ND	1	9.0	1.10	0.549	05/30/1219:36	05/29/1217:19	IE30010	IE30001	HCE006S	05/22/1208:13	05/22/12
SL-730-SA5C-SB-0.0-0.5	E169-01R	ND	1	9.0	1.10	0.549	05/30/1219:47	05/29/1217:19	IE30011	IE30001	HCE006S	05/22/1208:13	05/22/12
SL-730-SA5C-SB-9.0-10.0	E169-04	ND	1	12.1	1.14	0.569	05/30/1222:02	05/29/1217:19	IE30024	IE30022	HCE006S	05/22/1208:23	05/22/12
SL-730-SA5C-SB-9.0-10.0	E169-04R	ND	1	12.1	1.14	0.569	05/30/1222:12	05/29/1217:19	IE30025	IE30022	HCE006S	05/22/1208:23	05/22/12
SL-731-SA5C-SB-0.0-0.5	E169-06	ND	1	9.6	1.11	0.553	05/30/1222:23	05/29/1217:19	IE30026	IE30022	HCE006S	05/22/1210:48	05/22/12
SL-731-SA5C-SB-0.0-0.5	E169-06R	ND	1	9.6	1.11	0.553	05/30/1222:33	05/29/1217:19	IE30027	IE30022	HCE006S	05/22/1210:48	05/22/12
SL-731-SA5C-SB-9.0-10.0	E169-09	ND	1	8.8	1.10	0.548	05/30/1222:44	05/29/1217:19	IE30028	IE30022	HCE006S	05/22/1210:57	05/22/12
SL-731-SA5C-SB-9.0-10.0	E169-09R	ND	1	8.8	1.10	0.548	05/30/1222:54	05/29/1217:19	IE30029	IE30022	HCE006S	05/22/1210:57	05/22/12
SL-733-SA5C-SB-0.0-0.5	E169-11	ND	1	8.6	1.09	0.547	05/30/1223:04	05/29/1217:19	IE30030	IE30022	HCE006S	05/22/1209:23	05/22/12
SL-733-SA5C-SB-0.0-0.5	E169-11R	ND	1	8.6	1.09	0.547	05/30/1223:15	05/29/1217:19	IE30031	IE30022	HCE006S	05/22/1209:23	05/22/12
SL-733-SA5C-SB-4.0-5.0	E169-12	ND	1	9.7	1.11	0.554	05/30/1223:25	05/29/1217:19	IE30032	IE30022	HCE006S	05/22/1209:42	05/22/12
SL-733-SA5C-SB-4.0-5.0	E169-12R	ND	1	9.7	1.11	0.554	05/30/1223:36	05/29/1217:19	IE30033	IE30022	HCE006S	05/22/1209:42	05/22/12
SL-731-SA5C-SB-4.0-5.0	E169-07	ND	1	12.0	1.14	0.568	05/31/1200:07	05/29/1217:19	IE30036	IE30034	HCE006S	05/22/1210:54	05/22/12
SL-731-SA5C-SB-4.0-5.0	E169-07R	ND	1	12.0	1.14	0.568	05/31/1200:17	05/29/1217:19	IE30037	IE30034	HCE006S	05/22/1210:54	05/22/12
SL-731-SA5C-SB-4.0-5.0DUPE169-07D	ND	ND	1	12.0	1.14	0.568	05/31/1200:28	05/29/1217:19	IE30038	IE30034	HCE006S	05/22/1210:54	05/22/12
SL-731-SA5C-SB-4.0-5.0DUPE169-07Z	ND	ND	1	12.0	1.14	0.568	05/31/1200:38	05/29/1217:19	IE30039	IE30034	HCE006S	05/22/1210:54	05/22/12
SL-733-SA5C-SB-9.0-10.0	E169-14	ND	1	11.0	1.12	0.562	05/31/1201:30	05/29/1217:19	IE30044	IE30034	HCE006S	05/22/1209:58	05/22/12
SL-733-SA5C-SB-9.0-10.0	E169-14R	ND	1	11.0	1.12	0.562	05/31/1201:41	05/29/1217:19	IE30045	IE30034	HCE006S	05/22/1209:58	05/22/12
SL-730-SA5C-SB-4.0-5.0	E169-02	ND	1	11.4	1.13	0.564	05/31/1202:12	05/29/1217:19	IE30048	IE30046	HCE006S	05/22/1208:19	05/22/12
SL-730-SA5C-SB-4.0-5.0	E169-02R	ND	1	11.4	1.13	0.564	05/31/1202:22	05/29/1217:19	IE30049	IE30046	HCE006S	05/22/1208:19	05/22/12
SL-732-SA5C-SB-5.0-6.0	E169-21	ND	1	10.7	1.12	0.560	05/31/1202:33	05/29/1217:19	IE30050	IE30046	HCE006S	05/22/1213:25	05/22/12
SL-732-SA5C-SB-5.0-6.0	E169-21R	ND	1	10.7	1.12	0.560	05/31/1202:43	05/29/1217:19	IE30051	IE30046	HCE006S	05/22/1213:25	05/22/12
SL-732-SA5C-SB-10.5-11.5	E169-23	ND	1	6.7	1.07	0.536	05/31/1202:53	05/29/1217:19	IE30052	IE30046	HCE006S	05/22/1213:30	05/22/12
SL-732-SA5C-SB-10.5-11.5	E169-23R	ND	1	6.7	1.07	0.536	05/31/1203:04	05/29/1217:19	IE30053	IE30046	HCE006S	05/22/1213:30	05/22/12
SL-731-SA5C-SB-4.0-5.0MS	E169-07M	11.9	1	12.0	1.14	0.568	05/31/1210:22	05/29/1217:19	IE30058	IE30056	HCE006S	05/22/1210:54	05/22/12
SL-731-SA5C-SB-4.0-5.0MS	E169-07M1	12.3	1	12.0	1.14	0.568	05/31/1210:32	05/29/1217:19	IE30059	IE30056	HCE006S	05/22/1210:54	05/22/12
SL-731-SA5C-SB-4.0-5.0MS	E169-07G	144	10	12.0	11.4	5.68	05/31/1210:43	05/29/1217:19	IE30060	IE30056	HCE006S	05/22/1210:54	05/22/12
SL-731-SA5C-SB-4.0-5.0MS	E169-07G1	143	10	12.0	11.4	5.68	05/31/1210:53	05/29/1217:19	IE30061	IE30056	HCE006S	05/22/1210:54	05/22/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE006SB CSE006SL  
LAB FILE ID: IE30003 IE30006  
DATE EXTRACTED: 05/29/1217:19 05/29/1217:19 DATE COLLECTED: NA  
DATE ANALYZED: 05/30/1217:55 05/30/1218:55 DATE RECEIVED: 05/29/12  
PREP. BATCH: HCE006S HCE006S  
CALIB. REF: IE30001 IE30001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	10.4	104	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE006SQ CSE006SX  
LAB FILE ID: IE30004 IE30007  
DATE EXTRACTED: 05/29/1217:19 05/29/1217:19 DATE COLLECTED: NA  
DATE ANALYZED: 05/30/1218:05 05/30/1219:05 DATE RECEIVED: 05/29/12  
PREP. BATCH: HCE006S HCE006S  
CALIB. REF: IE30001 IE30001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
----- Hexavalent Chromium	ND	10.0	9.12	91	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 20  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE006SB CIE006SL  
LAB FILE ID: IE30003 IE30008  
DATE EXTRACTED: 05/29/1217:19 05/29/1217:19 DATE COLLECTED: NA  
DATE ANALYZED: 05/30/1217:55 05/30/1219:16 DATE RECEIVED: 05/29/12  
PREP. BATCH: HCE006S HCE006S  
CALIB. REF: IE30001 IE30001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	202	196	97	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 20  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCE006SQ CIE006SX  
LAB FILE ID: IE30004 IE30009  
DATE EXTRACTED: 05/29/1217:19 05/29/1217:19 DATE COLLECTED: NA  
DATE ANALYZED: 05/30/1218:05 05/30/1219:26 DATE RECEIVED: 05/29/12  
PREP. BATCH: HCE006S HCE006S  
CALIB. REF: IE30001 IE30001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	202	201	99	80-120

EMAX QUALITY CONTROL DATA  
MS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 12.0  
DILUTION FACTOR: 1  
SAMPLE ID: SL-731-SA5C-SB-4.0-5.0  
LAB SAMP ID: E169-07 E169-07M  
LAB FILE ID: IE30036 IE30058  
DATE EXTRACTED: 05/29/1217:19 05/29/1217:19 DATE COLLECTED: 05/22/12 10:54  
DATE ANALYZED: 05/31/1200:07 05/31/1210:22 DATE RECEIVED: 05/22/12  
PREP. BATCH: HCE006S HCE006S  
CALIB. REF: IE30034 IE30056

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	QC LIMIT ( % )
----- Hexavalent Chromium	ND	11.4	11.9	104	75-125

EMAX QUALITY CONTROL DATA  
MS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 12.0  
DILUTION FACTOR: 1  
SAMPLE ID: SL-731-SA5C-SB-4.0-5.0  
LAB SAMP ID: E169-07R E169-07M1  
LAB FILE ID: IE30037 IE30059  
DATE EXTRACTED: 05/29/1217:19 05/29/1217:19 DATE COLLECTED: 05/22/12 10:54  
DATE ANALYZED: 05/31/1200:17 05/31/1210:32 DATE RECEIVED: 05/22/12  
PREP. BATCH: HCE006S HCE006S  
CALIB. REF: IE30034 IE30056

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	11.4	12.3	108	75-125

EMAX QUALITY CONTROL DATA  
MS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 12.0  
DILUTION FACTOR: 1 10  
SAMPLE ID: SL-731-SA5C-SB-4.0-5.0  
LAB SAMP ID: E169-07 E169-07G  
LAB FILE ID: IE30036 IE30060  
DATE EXTRACTED: 05/29/1217:19 05/29/1217:19 DATE COLLECTED: 05/22/12 10:54  
DATE ANALYZED: 05/31/1200:07 05/31/1210:43 DATE RECEIVED: 05/22/12  
PREP. BATCH: HCE006S HCE006S  
CALIB. REF: IE30034 IE30056

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	159	144	91	75-125

EMAX QUALITY CONTROL DATA  
MS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E169  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 12.0  
DILUTION FACTOR: 1 10  
SAMPLE ID: SL-731-SA5C-SB-4.0-5.0  
LAB SAMP ID: E169-07R E169-07G1  
LAB FILE ID: IE30037 IE30061  
DATE EXTRACTED: 05/29/1217:19 05/29/1217:19 DATE COLLECTED: 05/22/12 10:54  
DATE ANALYZED: 05/31/1200:17 05/31/1210:53 DATE RECEIVED: 05/22/12  
PREP. BATCH: HCE006S HCE006S  
CALIB. REF: IE30034 IE30056

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	159	143	90	75-125

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/31/12 12:43
Sample ID    : SL-674-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 22:07
Lab Samp ID  : E187-01                          Dilution Factor: 1
Lab File ID  : REJ690                           Matrix          : SOIL
Ext Btch ID  : SVE059S                          % Moisture     : 9.6
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	249	368.7	67.4	40-130
2-FLUOROBIPHENYL	217	368.7	58.8	45-130
TERPHENYL-D14	293	368.7	79.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/31/12 12:43
Sample ID    : SL-674-SA5C-SB-2.5-3.5          Date Analyzed: 05/31/12 22:27
Lab Samp ID  : E187-02                           Dilution Factor: 1
Lab File ID  : REJ691                             Matrix          : SOIL
Ext Btch ID  : SVE059S                           % Moisture     : 8.8
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	231	365.5	63.2	40-130
2-FLUOROBIPHENYL	198	365.5	54.3	45-130
TERPHENYL-D14	279	365.5	76.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/31/12 12:43
Sample ID:   SL-675-SA5C-SB-0.0-0.5            Date Analyzed: 05/31/12 22:45
Lab Samp ID: E187-04                            Dilution Factor: 1
Lab File ID: REJ692                             Matrix          : SOIL
Ext Btch ID: SVE059S                            % Moisture      : 5.1
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.6
ACENAPHTHYLENE	ND	11	2.6
ANTHRACENE	ND	11	2.6
BENZO (A) ANTHRACENE	ND	11	2.6
BENZO (A) PYRENE	ND	11	2.6
BENZO (B) FLUORANTHENE	ND	11	2.6
BENZO (K) FLUORANTHENE	ND	11	2.6
BENZO (G, H, I) PERYLENE	ND	11	2.6
CHRYSENE	ND	11	2.6
DIBENZO (A, H) ANTHRACENE	ND	11	2.6
FLUORANTHENE	ND	11	2.6
FLUORENE	ND	11	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.6
NAPHTHALENE	ND	11	2.6
PHENANTHRENE	ND	11	2.6
2-METHYLNAPHTHALENE	ND	11	2.6
1-METHYLNAPHTHALENE	ND	11	2.6
N-NITROSODIMETHYLAMINE	ND	11	2.6
PYRENE	ND	11	2.6
AZOBENZENE	ND	5.3	2.6
BENZO (E) PYRENE	3.3J	5.3	2.6
BIPHENYL	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	216	351.2	61.5	40-130
2-FLUOROBIPHENYL	198	351.2	56.5	45-130
TERPHENYL-D14	267	351.2	76.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/31/12 12:43
Sample ID    : SL-678-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 23:04
Lab Samp ID  : E187-07                           Dilution Factor: 1
Lab File ID  : REJ693                             Matrix          : SOIL
Ext Btch ID  : SVE059S                           % Moisture     : 9.6
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	3.2J	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	3.7J	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	5.5J	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	239	368.7	64.9	40-130
2-FLUOROBIPHENYL	211	368.7	57.3	45-130
TERPHENYL-D14	314	368.7	85.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/31/12 12:43
Sample ID    : SL-678-SA5C-SB-2.5-3.5          Date Analyzed: 06/01/12 13:05
Lab Samp ID  : E187-08                           Dilution Factor: 1
Lab File ID  : RFJ009                             Matrix          : SOIL
Ext Btch ID  : SVE059S                           % Moisture     : 9.7
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	261	369.1	70.6	40-130
2-FLUOROBIPHENYL	224	369.1	60.7	45-130
TERPHENYL-D14	284	369.1	77.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/31/12 12:43
Sample ID:   SL-681-SA5C-SB-4.0-5.0           Date Analyzed: 06/01/12 13:24
Lab Samp ID: E187-12                           Dilution Factor: 1
Lab File ID: RFJ010                            Matrix          : SOIL
Ext Btch ID: SVE059S                          % Moisture     : 10.4
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	234	372.0	63.0	40-130
2-FLUOROBIPHENYL	201	372.0	54.1	45-130
TERPHENYL-D14	234	372.0	62.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/31/12 12:43
Sample ID    : SL-681-SA5C-SB-7.5-8.5          Date Analyzed: 06/01/12 13:43
Lab Samp ID  : E187-14                          Dilution Factor: 1
Lab File ID  : RFJ011                           Matrix          : SOIL
Ext Btch ID  : SVE059S                          % Moisture     : 8.3
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	240	363.5	65.9	40-130
2-FLUOROBIPHENYL	209	363.5	57.4	45-130
TERPHENYL-D14	300	363.5	82.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/31/12 12:43
Sample ID    : SL-676-SA5C-SB-0.0-0.5          Date Analyzed: 06/01/12 14:01
Lab Samp ID  : E187-16                          Dilution Factor: 1
Lab File ID  : RFJ012                           Matrix          : SOIL
Ext Btch ID  : SVE059S                          % Moisture     : 12.6
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	2.9J	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	4.0J	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	3.1J	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	6.2	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	243	381.4	63.8	40-130
2-FLUOROBIPHENYL	202	381.4	53.0	45-130
TERPHENYL-D14	280	381.4	73.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                       Date Received: 05/23/12
Batch No.    : 12E187                             Date Extracted: 05/31/12 12:43
Sample ID:   SL-676-SA5C-SB-4.0-5.0             Date Analyzed: 06/05/12 12:33
Lab Samp ID: E187-17W                           Dilution Factor: 1
Lab File ID: RFJ083                              Matrix          : SOIL
Ext Btch ID: SVE059S                             % Moisture     : 12.1
Calib. Ref.: RAJ290                              Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	2.8J	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	194	379.2	51.2	40-130
2-FLUOROBIPHENYL	173	379.2	45.7	45-130
TERPHENYL-D14	211	379.2	55.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/31/12 12:43
Sample ID    : SL-976-SA5C-SB-4.0-5.0          Date Analyzed: 06/01/12 14:39
Lab Samp ID  : E187-19                          Dilution Factor: 1
Lab File ID  : RFJ014                           Matrix          : SOIL
Ext Btch ID  : SVE059S                          % Moisture     : 10.7
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	226	373.2	60.6	40-130
2-FLUOROBIPHENYL	209	373.2	55.9	45-130
TERPHENYL-D14	251	373.2	67.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/31/12 12:43
Sample ID    : SL-671-SA5C-SB-2.0-3.0          Date Analyzed: 06/01/12 14:58
Lab Samp ID  : E187-21                          Dilution Factor: 1
Lab File ID  : RFJ015                           Matrix          : SOIL
Ext Btch ID  : SVE059S                          % Moisture     : 10.0
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	278	370.3	75.1	40-130
2-FLUOROBIPHENYL	253	370.3	68.3	45-130
TERPHENYL-D14	329	370.3	88.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E187                           Date Extracted: 05/31/12 12:43
Sample ID    : MBLK1S                           Date Analyzed: 05/31/12 20:33
Lab Samp ID  : SVE059SB                        Dilution Factor: 1
Lab File ID  : REJ685                           Matrix          : SOIL
Ext Btch ID  : SVE059S                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	266	333.3	79.7	40-130
2-FLUOROBIPHENYL	232	333.3	69.7	45-130
TERPHENYL-D14	280	333.3	84.2	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVE059SB SVE059SL SVE059SY  
LAB FILE ID: REJ685 REJ686 RFJ007  
DATE EXTRACTED: 05/31/1212:43 05/31/1212:43 05/31/1212:43 DATE COLLECTED: NA  
DATE ANALYZED: 05/31/1220:33 05/31/1220:52 06/01/1212:26 DATE RECEIVED: 05/31/12  
PREP. BATCH: SVE059S SVE059S SVE059S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	350	105	333	335	101	4	10-130	50
Acenaphthylene	ND	333	391	117	333	373	112	5	20-130	50
Anthracene	ND	333	321	96	333	306	92	5	20-130	50
Benzo (a) anthracene	ND	333	320	96	333	309	93	4	30-130	50
Benzo (a) pyrene	ND	333	377	113	333	378	114	0	30-130	50
Benzo (b) fluoranthene	ND	333	397	119	333	390	117	2	40-130	50
Benzo (k) fluoranthene	ND	333	393	118	333	403	121	2	30-140	50
Benzo (g, h, i) perylene	ND	333	402	121	333	402	121	0	30-140	50
Chrysene	ND	333	314	94	333	310	93	2	30-140	50
Dibenzo (a, h) anthracene	ND	333	404	121	333	398	119	1	40-140	50
Fluoranthene	ND	333	356	107	333	341	102	4	30-130	50
Fluorene	ND	333	363	109	333	349	105	4	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	406	122	333	398	120	2	20-160	50
Naphthalene	ND	333	339	102	333	322	97	5	10-130	50
Phenanthrene	ND	333	327	98	333	314	94	4	20-130	50
2-Methylnaphthalene	ND	333	361	108	333	341	102	6	30-150	50
1-Methylnaphthalene	ND	333	365	110	333	346	104	5	30-150	50
N-Nitrosodimethylamine	ND	333	284	85	333	295	89	4	30-150	50
Pyrene	ND	333	341	102	333	328	98	4	20-150	50
Azobenzene	ND	333	316	95	333	314	94	1	30-150	50
Benzo (e) pyrene	ND	333	276	83	333	263	79	5	30-150	50
Biphenyl	ND	333	245	74	333	217	65	12	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	273	82	333	250	75	40-130
2-Fluorobiphenyl	333	239	72	333	220	66	45-130
Terphenyl-d14	333	273	82	333	250	75	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 12.1  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-676-SA5C-SB-4.0-5.0  
LAB SAMP ID: E187-17W E187-17M E187-17S  
LAB FILE ID: RFJ083 RFJ008 REJ689  
DATE EXTRACTED: 05/31/1212:43 05/31/1212:43 05/31/1212:43 DATE COLLECTED: 05/23/12  
DATE ANALYZED: 06/05/1212:33 06/01/1212:45 05/31/1221:49 DATE RECEIVED: 05/23/12  
PREP. BATCH: SVE059S SVE059S SVE059S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	379	357	94	379	297	78	18	10-130	50
Acenaphthylene	ND	379	396	104	379	334	88	17	20-130	50
Anthracene	ND	379	379	100	379	292	77	26	20-130	50
Benzo (a) anthracene	ND	379	371	98	379	258	68	36	30-130	50
Benzo (a) pyrene	ND	379	449	118	379	323	85	33	30-130	50
Benzo (b) fluoranthene	ND	379	464	122	379	353	93	27	30-130	50
Benzo (k) fluoranthene	ND	379	469	124	379	322	85	37	30-130	50
Benzo (g, h, i) perylene	ND	379	470	124	379	342	90	32	30-140	50
Chrysene	ND	379	367	97	379	254	67	36	20-130	50
Dibenzo (a, h) anthracene	ND	379	473	125	379	343	90	32	30-130	50
Fluoranthene	ND	379	414	109	379	298	79	33	30-150	50
Fluorene	ND	379	385	102	379	302	80	24	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	379	476	125	379	345	91	32	20-160	50
Naphthalene	ND	379	268	71	379	243	64	9	10-130	50
Phenanthrene	ND	379	390	103	379	291	77	29	20-130	50
2-Methylnaphthalene	ND	379	327	86	379	288	76	13	30-150	50
1-Methylnaphthalene	ND	379	342	90	379	297	78	14	30-150	50
N-Nitrosodimethylamine	ND	379	292	77	379	248	65	16	20-150	50
Pyrene	ND	379	393	104	379	283	75	33	10-160	50
Azobenzene	ND	379	383	101	379	279	74	31	30-150	50
Benzo (e) pyrene	2.85J	379	309	81	379	217	57	35	30-150	50
Biphenyl	ND	379	191	50	379	175	46	8	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	379	226	60	379	196	52	40-130
2-Fluorobiphenyl	379	207	55	379	177	47	45-130
Terphenyl-d14	379	281	74	379	193	51	45-135

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/26/12 02:26
Sample ID:   SL-674-SA5C-SB-3.5                 Date Analyzed: 05/26/12 02:26
Lab Samp ID: E187-03                             Dilution Factor: 0.98
Lab File ID: EE25015A                           Matrix          : SOIL
Ext Btch ID: GME020S                             % Moisture     : 7.0
Calib. Ref.: EE25012A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.53
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.90	2.108	90.1 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/24/12 12:05

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/26/12 03:09
Sample ID:   SL-678-SA5C-SB-3.5                Date Analyzed: 05/26/12 03:09
Lab Samp ID: E187-09                            Dilution Factor: 0.93
Lab File ID: EE25016A                           Matrix          : SOIL
Ext Btch ID: GME020S                             % Moisture     : 10.5
Calib. Ref.: EE25012A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.82	2.078	87.8 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/24/12 12:05

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/23/12
Project    : SSFL PHASE 3                       Date Received: 05/23/12
Batch No.  : 12E187                             Date Extracted: 05/26/12 03:52
Sample ID: SL-681-SA5C-SB-5.0                 Date Analyzed: 05/26/12 03:52
Lab Samp ID: E187-13                           Dilution Factor: 0.89
Lab File ID: EE25017A                          Matrix          : SOIL
Ext Btch ID: GME020S                            % Moisture     : 11.6
Calib. Ref.: EE25012A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.69	2.014	84.1 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/24/12 12:05

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/26/12 04:36
Sample ID:   SL-681-SA5C-SB-8.5                 Date Analyzed: 05/26/12 04:36
Lab Samp ID: E187-15                             Dilution Factor: 0.91
Lab File ID: EE25018A                           Matrix          : SOIL
Ext Btch ID: GME020S                             % Moisture     : 8.5
Calib. Ref.: EE25012A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.99	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.75	1.989	87.9 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/24/12 12:05

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/25/12 23:33
Sample ID:   SL-676-SA5C-SB-5.0                 Date Analyzed: 05/25/12 23:33
Lab Samp ID: E187-18                             Dilution Factor: 0.84
Lab File ID: EE25011A                           Matrix          : SOIL
Ext Btch ID: GME020S                             % Moisture     : 10.5
Calib. Ref.: EE25002A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.94	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.61	1.877	85.8 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/24/12 12:05

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/26/12 05:19
Sample ID:   SL-976-SA5C-SB-5.0                Date Analyzed: 05/26/12 05:19
Lab Samp ID: E187-20                            Dilution Factor: 0.88
Lab File ID: EE25019A                           Matrix          : SOIL
Ext Btch ID: GME020S                             % Moisture     : 10.6
Calib. Ref.: EE25012A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.98	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.72	1.969	87.2 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/24/12 12:05

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/26/12 06:02
Sample ID:   SL-671-SA5C-SB-3.0                 Date Analyzed: 05/26/12 06:02
Lab Samp ID: E187-22                             Dilution Factor: 0.83
Lab File ID: EE25020A                           Matrix          : SOIL
Ext Btch ID: GME020S                             % Moisture     : 7.4
Calib. Ref.: EE25012A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.90	0.45
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.55	1.793	86.3 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/24/12 12:05

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/25/12
Batch No.   : 12E187                           Date Extracted: 05/25/12 19:58
Sample ID   : MBLK1S                           Date Analyzed: 05/25/12 19:58
Lab Samp ID: GME020SB                          Dilution Factor: 1
Lab File ID: EE25006A                          Matrix          : SOIL
Ext Btch ID: GME020S                           % Moisture     : NA
Calib. Ref.: EE25002A                          Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.81	2.000	90.3 60-130

RL : Reporting Limit  
 Methanol Extraction: 05/24/12 12:05

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GME020SB GME020SL GME020SC  
LAB FILE ID: EE25006A EE25004A EE25005A  
DATE EXTRACTED: 05/25/1219:58 05/25/1218:32 05/25/1219:15 DATE COLLECTED: NA  
DATE ANALYZED: 05/25/1219:58 05/25/1218:32 05/25/1219:15 DATE RECEIVED: 05/25/12  
PREP. BATCH: GME020S GME020S GME020S  
CALIB. REF: EE25002A EE25002A EE25002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	19.6	78	25.0	22.0	88	12	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.04	102	2.00	2.27	113	60-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: 10.5  
DILUTION FACTOR: 0.84 0.9 0.9  
SAMPLE ID: SL-676-SA5C-SB-5.0  
LAB SAMP ID: E187-18 E187-18M E187-18S  
LAB FILE ID: EE25011A EE25013A EE25014A  
DATE EXTRACTED: 05/25/1223:33 05/26/1201:00 05/26/1201:43 DATE COLLECTED: 05/23/12  
DATE ANALYZED: 05/25/1223:33 05/26/1201:00 05/26/1201:43 DATE RECEIVED: 05/23/12  
PREP. BATCH: GME020S GME020S GME020S  
CALIB. REF: EE25002A EE25012A EE25012A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.1	18.7	74	25.1	20.3	81	8	50-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.01	1.96	97	2.01	2.08	103	70-140

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/23/12
Project     : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.   : 12E187                           Date Extracted: 05/29/12 14:56
Sample ID   : TB-052312                       Date Analyzed: 05/29/12 14:56
Lab Samp ID: E187-25                           Dilution Factor: 1
Lab File ID: EE29008A                         Matrix          : WATER
Ext Btch ID: VG39E17                          % Moisture      : NA
Calib. Ref.: EE29002A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	19J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	35.1	40.00	87.9 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 14:14
Sample ID    : MBLK1W                           Date Analyzed: 05/29/12 14:14
Lab Samp ID  : VG39E17Q                         Dilution Factor: 1
Lab File ID  : EE29007A                         Matrix          : WATER
Ext Btch ID  : VG39E17                          % Moisture     : NA
Calib. Ref.  : EE29002A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	34.8	40.00	87.0 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39E17Q VG39E17L VG39E17C  
LAB FILE ID: EE29007A EE29004A EE29005A  
DATE EXTRACTED: 05/29/1214:14 05/29/1212:08 05/29/1212:50 DATE COLLECTED: NA  
DATE ANALYZED: 05/29/1214:14 05/29/1212:08 05/29/1212:50 DATE RECEIVED: 05/29/12  
PREP. BATCH: VG39E17 VG39E17 VG39E17  
CALIB. REF: EE29002A EE29002A EE29002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	481	96	500	478	96	1	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	45.7	114	40.0	47.2	118	60-130

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/24/12 10:15
Sample ID:   SL-674-SA5C-SB-0.0-0.5           Date Analyzed: 05/24/12 12:16
Lab Samp ID: E187-01                           Dilution Factor: 1
Lab File ID: BE24006A                          Matrix          : SOIL
Ext Btch ID: MEE004S                           % Moisture     : 9.6
Calib. Ref.: BE24002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	550	280
ISOPROPANOL	ND	550	280
METHANOL	ND	550	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/24/12 10:15
Sample ID:   SL-674-SA5C-SB-2.5-3.5           Date Analyzed: 05/24/12 13:03
Lab Samp ID: E187-02                           Dilution Factor: 1
Lab File ID: BE24007A                          Matrix          : SOIL
Ext Btch ID: MEE004S                            % Moisture     : 8.8
Calib. Ref.: BE24002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	550	270
ISOPROPANOL	ND	550	270
METHANOL	ND	550	270

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/24/12
Batch No.    : 12E187                             Date Extracted: 05/24/12 10:15
Sample ID    : MBLK1S                             Date Analyzed: 05/24/12 11:10
Lab Samp ID  : MEE004SB                           Dilution Factor: 1
Lab File ID  : BE24003A                           Matrix          : SOIL
Ext Btch ID  : MEE004S                             % Moisture      : NA
Calib. Ref.  : BE24002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEE004SB MEE004SL MEE004SC  
LAB FILE ID: BE24003A BE24004A BE24005A  
DATE EXTRACTED: 05/24/1210:15 05/24/1210:15 05/24/1210:15 DATE COLLECTED: NA  
DATE ANALYZED: 05/24/1211:10 05/24/1211:28 05/24/1211:54 DATE RECEIVED: 05/24/12  
PREP. BATCH: MEE004S MEE004S MEE004S  
CALIB. REF: BE24002A BE24002A BE24002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	8280	83	10000	7660	77	8	50-150	50
Isopropanol	ND	10000	9960	100	10000	8390	84	17	50-150	50
Methanol	ND	10000	10400	104	10000	8830	88	16	50-150	50

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                       Date Received: 05/23/12
Batch No.    : 12E187                             Date Extracted: 05/29/12 10:04
Sample ID    : SL-674-SA5C-SB-0.0-0.5           Date Analyzed: 05/29/12 19:44
Lab Samp ID  : E187-01                           Dilution Factor: 1
Lab File ID  : LE29008A                          Matrix          : SOIL
Ext Btch ID  : DSE035S                           % Moisture     : 9.6
Calib. Ref.  : LE29003A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.4	110.6	73.6	50-150
HEXACOSANE	21.9	27.65	79.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 10:04
Sample ID:   SL-674-SA5C-SB-2.5-3.5           Date Analyzed: 05/29/12 20:01
Lab Samp ID: E187-02                           Dilution Factor: 1
Lab File ID: LE29009A                          Matrix          : SOIL
Ext Btch ID: DSE035S                           % Moisture     : 8.8
Calib. Ref.: LE29003A                          Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	83.2	109.6	75.9	50-150
HEXACOSANE	21.2	27.41	77.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 10:04
Sample ID:   SL-675-SA5C-SB-0.0-0.5           Date Analyzed: 05/29/12 20:18
Lab Samp ID: E187-04                           Dilution Factor: 1
Lab File ID: LE29010A                          Matrix          : SOIL
Ext Btch ID: DSE035S                            % Moisture     : 5.1
Calib. Ref.: LE29003A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.6
EFH(C12-C14)	ND	5.3	2.6
EFH(C15-C20)	ND	5.3	2.6
EFH(C21-C30)	8.3	5.3	2.6
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	8.3	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	80.8	105.4	76.7	50-150
HEXACOSANE	21.2	26.34	80.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 10:04
Sample ID:   SL-678-SA5C-SB-0.0-0.5           Date Analyzed: 05/29/12 23:07
Lab Samp ID: E187-07                           Dilution Factor: 1
Lab File ID: LE29020A                          Matrix          : SOIL
Ext Btch ID: DSE035S                           % Moisture     : 9.6
Calib. Ref.: LE29015A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	13	5.5	2.8
EFH(C30-C40)	8.7J	11	5.5
TOTAL EFH(C8-C40)	22	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	88.8	110.6	80.3	50-150
HEXACOSANE	23.9	27.65	86.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 10:04
Sample ID:   SL-678-SA5C-SB-2.5-3.5           Date Analyzed: 05/29/12 23:24
Lab Samp ID: E187-08                           Dilution Factor: 1
Lab File ID: LE29021A                          Matrix          : SOIL
Ext Btch ID: DSE035S                           % Moisture     : 9.7
Calib. Ref.: LE29015A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	4.2J	5.5	2.8
EFH(C30-C40)	5.6J	11	5.5
TOTAL EFH(C8-C40)	9.8	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.7	110.7	65.7	50-150
HEXACOSANE	21.7	27.69	78.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 10:04
Sample ID:   SL-681-SA5C-SB-4.0-5.0           Date Analyzed: 05/29/12 22:17
Lab Samp ID: E187-12                           Dilution Factor: 1
Lab File ID: LE29017A                          Matrix          : SOIL
Ext Btch ID: DSE035S                           % Moisture     : 10.4
Calib. Ref.: LE29015A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.8	111.6	62.5	50-150
HEXACOSANE	22.5	27.90	80.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 10:04
Sample ID    : SL-681-SA5C-SB-7.5-8.5          Date Analyzed: 05/29/12 22:33
Lab Samp ID  : E187-14                          Dilution Factor: 1
Lab File ID  : LE29018A                        Matrix          : SOIL
Ext Btch ID  : DSE035S                         % Moisture     : 8.3
Calib. Ref.  : LE29015A                        Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.0	109.1	63.3	50-150
HEXACOSANE	21.1	27.26	77.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 10:04
Sample ID:   SL-676-SA5C-SB-0.0-0.5           Date Analyzed: 05/29/12 23:41
Lab Samp ID: E187-16                           Dilution Factor: 1
Lab File ID: LE29022A                          Matrix          : SOIL
Ext Btch ID: DSE035S                           % Moisture     : 12.6
Calib. Ref.: LE29015A                          Instrument ID  : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	21	5.7	2.9
EFH(C30-C40)	40	11	5.7
TOTAL EFH(C8-C40)	61	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	84.7	114.4	74.1	50-150
HEXACOSANE	25.3	28.60	88.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 10:04
Sample ID:   SL-676-SA5C-SB-4.0-5.0            Date Analyzed: 05/30/12 00:16
Lab Samp ID: E187-17                            Dilution Factor: 1
Lab File ID: LE29024A                          Matrix          : SOIL
Ext Btch ID: DSE035S                           % Moisture     : 12.1
Calib. Ref.: LE29015A                          Instrument ID  : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	1.1J	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	36	5.7	2.8
EFH(C30-C40)	61	11	5.7
TOTAL EFH(C8-C40)	98	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	86.0	113.8	75.6	50-150
HEXACOSANE	24.1	28.44	84.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 10:04
Sample ID    : SL-976-SA5C-SB-4.0-5.0          Date Analyzed: 05/29/12 23:59
Lab Samp ID  : E187-19                           Dilution Factor: 1
Lab File ID  : LE29023A                          Matrix          : SOIL
Ext Btch ID  : DSE035S                            % Moisture     : 10.7
Calib. Ref. : LE29015A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	14	5.6	2.8
EFH(C30-C40)	17	11	5.6
TOTAL EFH(C8-C40)	31	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	84.5	112.0	75.5	50-150
HEXACOSANE	22.9	28.00	81.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 10:04
Sample ID:   SL-671-SA5C-SB-2.0-3.0           Date Analyzed: 05/29/12 22:50
Lab Samp ID: E187-21                           Dilution Factor: 1
Lab File ID: LE29019A                          Matrix          : SOIL
Ext Btch ID: DSE035S                           % Moisture     : 10.0
Calib. Ref.: LE29015A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	83.8	111.1	75.4	50-150
HEXACOSANE	23.2	27.78	83.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.    : 12E187                             Date Extracted: 05/29/12 10:04
Sample ID    : MBLK1S                             Date Analyzed: 05/29/12 18:53
Lab Samp ID  : DSE035SB                           Dilution Factor: 1
Lab File ID  : LE29005A                           Matrix          : SOIL
Ext Btch ID  : DSE035S                             % Moisture      : NA
Calib. Ref. : LE29003A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.1	100.0	75.1	50-150
HEXACOSANE	17.6	25.00	70.4	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE035SB DSE035SL DSE035SC  
LAB FILE ID: LE29005A LE29006A LE29007A  
DATE EXTRACTED: 05/29/1210:04 05/29/1210:04 05/29/1210:04 DATE COLLECTED: NA  
DATE ANALYZED: 05/29/1218:53 05/29/1219:10 05/29/1219:27 DATE RECEIVED: 05/29/12  
PREP. BATCH: DSE035S DSE035S DSE035S  
CALIB. REF: LE29003A LE29003A LE29003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	557	111	500	551	110	1	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	85.1	85	100	80.0	80	50-150
Hexacosane	25.0	19.9	80	25.0	18.9	76	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 12.1  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-676-SA5C-SB-4.0-5.0  
LAB SAMP ID: E187-17 E187-17M E187-17S  
LAB FILE ID: LE29024A LE29025A LE29026A  
DATE EXTRACTED: 05/29/1210:04 05/29/1210:04 05/29/1210:04 DATE COLLECTED: 05/23/12  
DATE ANALYZED: 05/30/1200:16 05/30/1200:33 05/30/1200:50 DATE RECEIVED: 05/23/12  
PREP. BATCH: DSE035S DSE035S DSE035S  
CALIB. REF: LE29015A LE29015A LE29015A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	98.3	569	663	99	569	677	102	2	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	114	85.1	75	114	88.2	78	50-150
Hexacosane	28.4	23.2	82	28.4	23.3	82	50-150

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/23/12
Project     : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.   : 12E187                           Date Extracted: 05/24/12 10:15
Sample ID   : SL-674-SA5C-SB-0.0-0.5         Date Analyzed: 05/24/12 12:13
Lab Samp ID: E187-01                           Dilution Factor: 1
Lab File ID: TE24008A                         Matrix          : SOIL
Ext Btch ID: PEE003S                          % Moisture     : 9.6
Calib. Ref.: TE24004A                         Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.3
ETHYLENE GLYCOL	ND	11	5.5
PROPYLENE GLYCOL	ND	11	5.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/23/12
Project     : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.   : 12E187                           Date Extracted: 05/24/12 10:15
Sample ID:  SL-674-SA5C-SB-2.5-3.5           Date Analyzed: 05/24/12 12:29
Lab Samp ID: E187-02                           Dilution Factor: 1
Lab File ID: TE24009A                          Matrix          : SOIL
Ext Btch ID: PEE003S                            % Moisture     : 8.8
Calib. Ref.: TE24004A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	8.2
ETHYLENE GLYCOL	ND	11	5.5
PROPYLENE GLYCOL	ND	11	5.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.   : 12E187                           Date Extracted: 05/24/12 10:15
Sample ID   : MBLK1S                           Date Analyzed: 05/24/12 11:51
Lab Samp ID: PEE003SB                         Dilution Factor: 1
Lab File ID: TE24007A                        Matrix          : SOIL
Ext Btch ID: PEE003S                          % Moisture     : NA
Calib. Ref.: TE24004A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEE003SB PEE003SL PEE003SC  
LAB FILE ID: TE24007A TE24005A TE24006A  
DATE EXTRACTED: 05/24/1210:15 05/24/1210:15 05/24/1210:15 DATE COLLECTED: NA  
DATE ANALYZED: 05/24/1211:51 05/24/1211:11 05/24/1211:31 DATE RECEIVED: 05/24/12  
PREP. BATCH: PEE003S PEE003S PEE003S  
CALIB. REF: TE24004A TE24004A TE24004A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	44.8	90	50.0	44.4	89	1	50-150	50
Ethylene Glycol	ND	50.0	42.4	85	50.0	41.3	83	3	50-150	50
Propylene Glycol	ND	25.0	22.6	90	25.0	22.3	89	1	50-150	50

METHOD 3550B/8081A  
PESTICIDES

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID:   SL-675-SA5C-SB-0.0-0.5           Date Analyzed: 06/06/12 01:39
Lab Samp ID: E187-04                           Dilution Factor: 1
Lab File ID: MF05043B                          Matrix          : SOIL
Ext Btch ID: CPE037S                           % Moisture     : 5.1
Calib. Ref.: MF05039B                          Instrument ID   : GCE8
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	ND   (ND)	2.1	0.42   0.42
GAMMA-BHC (LINDANE)	ND   (ND)	2.1	0.42   0.42
BETA-BHC	1.2J   (ND)	2.1	0.42   0.42
HEPTACHLOR	0.68J   (ND)	2.1	0.42   0.42
DELTA-BHC	ND   (ND)	2.1	0.42   0.42
ALDRIN	ND   (ND)	2.1	0.42   0.42
HEPTACHLOR EPOXIDE	ND   (ND)	2.1	0.42   0.42
ENDOSULFAN I	ND   (ND)	2.1	0.42   0.42
4,4'-DDE	ND   (ND)	2.1	0.42   0.42
DIELDRIN	ND   (ND)	2.1	0.42   0.42
ENDRIN	ND   (ND)	2.1	0.42   0.42
4,4'-DDD	ND   (ND)	2.1	0.42   0.42
ENDOSULFAN II	ND   (ND)	2.1	0.42   0.42
4,4'-DDT	ND   (ND)	2.1	0.42   0.42
ENDRIN ALDEHYDE	ND   (ND)	2.1	0.42   0.42
ENDOSULFAN SULFATE	ND   (ND)	2.1	0.42   0.42
ENDRIN KETONE	ND   (ND)	2.1	0.42   0.42
METHOXYCHLOR	ND   (ND)	5.3	2.1   2.1
MIREX	0.49J   (ND)	2.1	0.42   0.42
TOXAPHENE	ND   (ND)	53	11   11
CHLORDANE (TECHNICAL)	ND   (ND)	11	5.3   5.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	12.64   (11.32)	14.05	90.0   (80.6)	50-130
DECACHLOROBIPHENYL	16.34   (13.55)	14.05	116   (96.5)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3550B/8081A  
PESTICIDES

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID:   SL-678-SA5C-SB-0.0-0.5            Date Analyzed: 06/06/12 02:02
Lab Samp ID: E187-07                            Dilution Factor: 1
Lab File ID: MF05044B                           Matrix          : SOIL
Ext Btch ID: CPE037S                             % Moisture     : 9.6
Calib. Ref.: MF05039B                           Instrument ID   : GCE8
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	ND   (ND)	2.2	0.44   0.44
GAMMA-BHC (LINDANE)	ND   (ND)	2.2	0.44   0.44
BETA-BHC	ND   (ND)	2.2	0.44   0.44
HEPTACHLOR	1.0J   (ND)	2.2	0.44   0.44
DELTA-BHC	ND   (ND)	2.2	0.44   0.44
ALDRIN	ND   (ND)	2.2	0.44   0.44
HEPTACHLOR EPOXIDE	ND   (ND)	2.2	0.44   0.44
ENDOSULFAN I	ND   (ND)	2.2	0.44   0.44
4,4'-DDE	ND   (ND)	2.2	0.44   0.44
DIELDRIN	ND   (ND)	2.2	0.44   0.44
ENDRIN	ND   (ND)	2.2	0.44   0.44
4,4'-DDD	ND   (ND)	2.2	0.44   0.44
ENDOSULFAN II	ND   (ND)	2.2	0.44   0.44
4,4'-DDT	ND   (ND)	2.2	0.44   0.44
ENDRIN ALDEHYDE	ND   (ND)	2.2	0.44   0.44
ENDOSULFAN SULFATE	ND   (ND)	2.2	0.44   0.44
ENDRIN KETONE	ND   (ND)	2.2	0.44   0.44
METHOXYCHLOR	ND   (ND)	5.5	2.2   2.2
MIREX	ND   (ND)	2.2	0.44   0.44
TOXAPHENE	ND   (ND)	55	11   11
CHLORDANE (TECHNICAL)	ND   (ND)	11	5.5   5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.39   (12.67)	14.75	90.8   (85.9)	50-130
DECACHLOROBIPHENYL	16.29   (13.08)	14.75	110   (88.7)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3550B/8081A  
PESTICIDES

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                       Date Received: 05/23/12
Batch No.    : 12E187                             Date Extracted: 05/29/12 15:12
Sample ID:   SL-678-SA5C-SB-2.5-3.5             Date Analyzed: 06/06/12 02:25
Lab Samp ID: E187-08                             Dilution Factor: 1
Lab File ID: MF05045B                           Matrix          : SOIL
Ext Btch ID: CPE037S                             % Moisture     : 9.7
Calib. Ref.: MF05039B                           Instrument ID  : GCE8
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	ND   (ND)	2.2	0.44   0.44
GAMMA-BHC (LINDANE)	ND   (ND)	2.2	0.44   0.44
BETA-BHC	ND   (ND)	2.2	0.44   0.44
HEPTACHLOR	0.70J   (ND)	2.2	0.44   0.44
DELTA-BHC	ND   (ND)	2.2	0.44   0.44
ALDRIN	ND   (ND)	2.2	0.44   0.44
HEPTACHLOR EPOXIDE	ND   (ND)	2.2	0.44   0.44
ENDOSULFAN I	ND   (ND)	2.2	0.44   0.44
4,4'-DDE	ND   (ND)	2.2	0.44   0.44
DIELDRIN	ND   (ND)	2.2	0.44   0.44
ENDRIN	ND   (ND)	2.2	0.44   0.44
4,4'-DDD	ND   (ND)	2.2	0.44   0.44
ENDOSULFAN II	ND   (ND)	2.2	0.44   0.44
4,4'-DDT	ND   (ND)	2.2	0.44   0.44
ENDRIN ALDEHYDE	ND   (ND)	2.2	0.44   0.44
ENDOSULFAN SULFATE	ND   (ND)	2.2	0.44   0.44
ENDRIN KETONE	ND   (ND)	2.2	0.44   0.44
METHOXYCHLOR	ND   (ND)	5.5	2.2   2.2
MIREX	ND   (ND)	2.2	0.44   0.44
TOXAPHENE	ND   (ND)	55	11   11
CHLORDANE (TECHNICAL)	ND   (ND)	11	5.5   5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.01   (11.71)	14.76	88.1   (79.3)	50-130
DECACHLOROBIPHENYL	16.06   (13.33)	14.76	109   (90.3)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3550B/8081A  
PESTICIDES

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID:   SL-676-SA5C-SB-0.0-0.5           Date Analyzed: 06/06/12 02:47
Lab Samp ID: E187-16                           Dilution Factor: 1
Lab File ID: MF05046B                          Matrix          : SOIL
Ext Btch ID: CPE037S                            % Moisture     : 12.6
Calib. Ref.: MF05039B                          Instrument ID   : GCE8
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	ND   (ND)	2.3	0.46   0.46
GAMMA-BHC (LINDANE)	(ND)   0.87J	2.3	0.46   0.46
BETA-BHC	1.1J   (ND)	2.3	0.46   0.46
HEPTACHLOR	ND   (ND)	2.3	0.46   0.46
DELTA-BHC	ND   (ND)	2.3	0.46   0.46
ALDRIN	ND   (ND)	2.3	0.46   0.46
HEPTACHLOR EPOXIDE	ND   (ND)	2.3	0.46   0.46
ENDOSULFAN I	ND   (ND)	2.3	0.46   0.46
4,4'-DDE	ND   (ND)	2.3	0.46   0.46
DIELDRIN	ND   (ND)	2.3	0.46   0.46
ENDRIN	ND   (ND)	2.3	0.46   0.46
4,4'-DDD	ND   (ND)	2.3	0.46   0.46
ENDOSULFAN II	ND   (ND)	2.3	0.46   0.46
4,4'-DDT	ND   (ND)	2.3	0.46   0.46
ENDRIN ALDEHYDE	1.4J   (ND)	2.3	0.46   0.46
ENDOSULFAN SULFATE	ND   (ND)	2.3	0.46   0.46
ENDRIN KETONE	0.74J   (ND)	2.3	0.46   0.46
METHOXYCHLOR	ND   (ND)	5.7	2.3   2.3
MIREX	0.57J   (ND)	2.3	0.46   0.46
TOXAPHENE	ND   (ND)	57	11   11
CHLORDANE (TECHNICAL)	ND   (ND)	11	5.7   5.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	14.86   (12.85)	15.25	97.4   (84.2)	50-130
DECACHLOROBIPHENYL	16.96   (12.20)	15.25	111   (80.0)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3550B/8081A  
PESTICIDES

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Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID:   SL-676-SA5C-SB-4.0-5.0           Date Analyzed: 06/06/12 03:09
Lab Samp ID: E187-17                           Dilution Factor: 1
Lab File ID: MF05047B                          Matrix          : SOIL
Ext Btch ID: CPE037S                            % Moisture     : 12.1
Calib. Ref.: MF05039B                          Instrument ID   : GCE8
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	0.46J   (ND)	2.3	0.46   0.46
GAMMA-BHC (LINDANE)	ND   (ND)	2.3	0.46   0.46
BETA-BHC	0.97J   (ND)	2.3	0.46   0.46
HEPTACHLOR	ND   (ND)	2.3	0.46   0.46
DELTA-BHC	ND   (ND)	2.3	0.46   0.46
ALDRIN	ND   (ND)	2.3	0.46   0.46
HEPTACHLOR EPOXIDE	ND   (ND)	2.3	0.46   0.46
ENDOSULFAN I	ND   (ND)	2.3	0.46   0.46
4,4'-DDE	ND   (ND)	2.3	0.46   0.46
DIELDRIN	ND   (ND)	2.3	0.46   0.46
ENDRIN	ND   (ND)	2.3	0.46   0.46
4,4'-DDD	ND   (ND)	2.3	0.46   0.46
ENDOSULFAN II	ND   (ND)	2.3	0.46   0.46
4,4'-DDT	ND   (ND)	2.3	0.46   0.46
ENDRIN ALDEHYDE	ND   (ND)	2.3	0.46   0.46
ENDOSULFAN SULFATE	ND   (ND)	2.3	0.46   0.46
ENDRIN KETONE	ND   (ND)	2.3	0.46   0.46
METHOXYCHLOR	ND   (ND)	5.7	2.3   2.3
MIREX	ND   (ND)	2.3	0.46   0.46
TOXAPHENE	ND   (ND)	57	11   11
CHLORDANE (TECHNICAL)	ND   (ND)	11	5.7   5.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	15.21   (12.98)	15.16	100   (85.6)	50-130
DECACHLOROBIPHENYL	15.78   (12.09)	15.16	104   (79.7)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3550B/8081A  
PESTICIDES

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Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID:   SL-976-SA5C-SB-4.0-5.0           Date Analyzed: 06/06/12 04:17
Lab Samp ID: E187-19                           Dilution Factor: 1
Lab File ID: MF05050B                          Matrix          : SOIL
Ext Btch ID: CPE037S                           % Moisture     : 10.7
Calib. Ref.: MF05039B                          Instrument ID   : GCE8
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	ND   (ND)	2.2	0.45   0.45
GAMMA-BHC (LINDANE)	ND   (ND)	2.2	0.45   0.45
BETA-BHC	ND   (ND)	2.2	0.45   0.45
HEPTACHLOR	ND   (ND)	2.2	0.45   0.45
DELTA-BHC	ND   (ND)	2.2	0.45   0.45
ALDRIN	ND   (ND)	2.2	0.45   0.45
HEPTACHLOR EPOXIDE	ND   (ND)	2.2	0.45   0.45
ENDOSULFAN I	ND   (ND)	2.2	0.45   0.45
4,4'-DDE	ND   (ND)	2.2	0.45   0.45
DIELDRIN	ND   (ND)	2.2	0.45   0.45
ENDRIN	ND   (ND)	2.2	0.45   0.45
4,4'-DDD	ND   (ND)	2.2	0.45   0.45
ENDOSULFAN II	ND   (ND)	2.2	0.45   0.45
4,4'-DDT	ND   (ND)	2.2	0.45   0.45
ENDRIN ALDEHYDE	ND   (ND)	2.2	0.45   0.45
ENDOSULFAN SULFATE	ND   (ND)	2.2	0.45   0.45
ENDRIN KETONE	ND   (ND)	2.2	0.45   0.45
METHOXYCHLOR	ND   (ND)	5.6	2.2   2.2
MIREX	ND   (ND)	2.2	0.45   0.45
TOXAPHENE	ND   (ND)	56	11   11
CHLORDANE (TECHNICAL)	ND   (ND)	11	5.6   5.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	13.93   (12.30)	14.93	93.3   (82.4)	50-130
DECACHLOROBIPHENYL	14.40   (11.21)	14.93	96.5   (75.1)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3550B/8081A  
PESTICIDES

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Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.  : 12E187                             Date Extracted: 05/29/12 15:12
Sample ID  : MBLK1S                             Date Analyzed: 06/05/12 22:41
Lab Samp ID: CPE037SB                          Dilution Factor: 1
Lab File ID: MF05035B                          Matrix          : SOIL
Ext Btch ID: CPE037S                            % Moisture     : NA
Calib. Ref.: MF05026B                          Instrument ID   : GCE8
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	ND   (ND)	2.0	0.40   0.40
GAMMA-BHC (LINDANE)	ND   (ND)	2.0	0.40   0.40
BETA-BHC	ND   (ND)	2.0	0.40   0.40
HEPTACHLOR	0.43J   (ND)	2.0	0.40   0.40
DELTA-BHC	ND   (ND)	2.0	0.40   0.40
ALDRIN	ND   (ND)	2.0	0.40   0.40
HEPTACHLOR EPOXIDE	ND   (ND)	2.0	0.40   0.40
ENDOSULFAN I	ND   (ND)	2.0	0.40   0.40
4,4'-DDE	ND   (ND)	2.0	0.40   0.40
DIELDRIN	ND   (ND)	2.0	0.40   0.40
ENDRIN	ND   (ND)	2.0	0.40   0.40
4,4'-DDD	ND   (ND)	2.0	0.40   0.40
ENDOSULFAN II	ND   (ND)	2.0	0.40   0.40
4,4'-DDT	ND   (ND)	2.0	0.40   0.40
ENDRIN ALDEHYDE	ND   (ND)	2.0	0.40   0.40
ENDOSULFAN SULFATE	ND   (ND)	2.0	0.40   0.40
ENDRIN KETONE	ND   (ND)	2.0	0.40   0.40
METHOXYCHLOR	ND   (ND)	5.0	2.0   2.0
MIREX	ND   (ND)	2.0	0.40   0.40
TOXAPHENE	ND   (ND)	50	10   10
CHLORDANE (TECHNICAL)	ND   (ND)	10	5.0   5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	11.57   (10.07)	13.33	86.8   (75.6)	50-130
DECACHLOROBIPHENYL	14.48   (12.23)	13.33	109   (91.8)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: CPE037SB CPE037SL CPE037SC  
LAB FILE ID: MF05035B MF05036B MF05037B  
DATE EXTRACTED: 05/29/1215:12 05/29/1215:12 05/29/1215:12 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1222:41 06/05/1223:04 06/05/1223:26 DATE RECEIVED: 05/29/12  
PREP. BATCH: CPE037S CPE037S CPE037S  
CALIB. REF: MF05026B MF05026B MF05026B

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
alpha-BHC	ND (ND)	6.67	7.34   (6.20)	110   (93)	6.67	6.66   (5.70)	100   (85)	10   (8)	30-150	50
gamma-BHC (Lindane)	ND (ND)	6.67	7.01   (6.02)	105   (90)	6.67	6.40   (5.47)	96   (82)	9   (10)	40-130	50
beta-BHC	ND (ND)	6.67	7.78   (6.31)	117   (95)	6.67	7.03   (5.79)	105   (87)	10   (9)	50-140	50
Heptachlor	0.43J (ND)	6.67	7.37   (6.29)	110   (94)	6.67	6.73   (5.80)	101   (87)	9   (8)	30-130	50
delta-BHC	ND (ND)	6.67	7.68   (7.43)	115   (111)	6.67	6.96   (6.60)	104   (99)	10   (12)	30-150	50
Aldrin	ND (ND)	6.67	6.45   (5.30)	97   (79)	6.67	5.55   (4.80)	83   (72)	15   (10)	30-130	50
Heptachlor Epoxide	ND (ND)	6.67	7.12   (5.86)	107   (88)	6.67	6.49   (5.33)	97   (80)	9   (9)	60-140	50
Endosulfan I	ND (ND)	6.67	6.55   (6.03)	98   (90)	6.67	5.84   (5.35)	88   (80)	11   (12)	50-150	50
4,4'-DDE	ND (ND)	6.67	7.63   (7.04)	114   (106)	6.67	6.91   (6.18)	104   (93)	10   (13)	50-150	50
Dieldrin	ND (ND)	6.67	7.83   (6.12)	117   (92)	6.67	7.31   (5.40)	110   (81)	7   (12)	60-130	50
Endrin	ND (ND)	6.67	7.87   (6.22)	118   (93)	6.67	7.06   (5.63)	106   (84)	11   (10)	50-140	50
4,4'-DDD	ND (ND)	6.67	8.16   (6.95)	122   (104)	6.67	7.36   (6.24)	110   (94)	10   (11)	50-160	50
Endosulfan II	ND (ND)	6.67	8.98   (7.01)	135   (105)	6.67	8.09   (6.32)	121   (95)	10   (10)	60-150	50
4,4'-DDT	ND (ND)	6.67	10.1   (7.42)	151*   (111)	6.67	9.18   (6.80)	138   (102)	10   (9)	60-140	50
Endrin aldehyde	ND (ND)	6.67	8.76   (6.85)	131   (103)	6.67	7.75   (6.17)	116   (93)	12   (10)	50-160	50
Endosulfan Sulfate	ND (ND)	6.67	8.89   (7.01)	133   (105)	6.67	8.17   (6.33)	122   (95)	8   (10)	70-140	50
Endrin Ketone	ND (ND)	6.67	8.99   (7.08)	135   (106)	6.67	8.16   (6.44)	122   (97)	10   (9)	70-160	50
Methoxychlor	ND (ND)	66.7	90.3   (76.8)	135   (115)	66.7	83.1   (70.0)	125   (105)	8   (9)	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Tetrachloro-m-xylene	13.33	12.56   (10.93)	94.2   (82.0)	13.33	11.84   (10.33)	88.8   (77.5)	50-130
Decachlorobiphenyl	13.33	16.06   (13.74)	120   (103)	13.33	15.42   (13.14)	116   (98.6)	20-120

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 12.1  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-676-SA5C-SB-4.0-5.0  
LAB SAMP ID: E187-17 E187-17M E187-17S  
LAB FILE ID: MF05047B MF05048B MF05049B  
DATE EXTRACTED: 05/29/1215:12 05/29/1215:12 05/29/1215:12 DATE COLLECTED: 05/23/12  
DATE ANALYZED: 06/06/1203:09 06/06/1203:32 06/06/1203:55 DATE RECEIVED: 05/23/12  
PREP. BATCH: CPE037S CPE037S CPE037S  
CALIB. REF: MF05039B MF05039B MF05039B

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
alpha-BHC	0.46J   (ND)	7.59	9.50   (7.72)	119   (102)	7.59	9.79   (7.82)	123   (103)	3   (1)	30-150	50
gamma-BHC (Lindane)	ND   (ND)	7.59	8.58   (7.83)	113   (103)	7.59	8.74   (8.15)	115   (107)	2   (4)	20-150	50
beta-BHC	0.97J   (ND)	7.59	10.4   (7.84)	124   (103)	7.59	9.88   (7.77)	117   (102)	5   (1)	50-140	50
Heptachlor	ND   (ND)	7.59	8.74   (7.94)	115   (105)	7.59	8.75   (8.27)	115   (109)	0   (4)	20-140	50
delta-BHC	ND   (ND)	7.59	10.1   (9.10)	133   (120)	7.59	9.79   (9.78)	129   (129)	3   (7)	30-150	50
Aldrin	ND   (ND)	7.59	7.60   (6.71)	100   (88)	7.59	7.70   (6.88)	101   (91)	1   (3)	20-160	50
Heptachlor Epoxide	ND   (ND)	7.59	8.81   (6.75)	116   (89)	7.59	8.83   (6.91)	116   (91)	0   (2)	40-140	50
Endosulfan I	ND   (ND)	7.59	7.14   (6.74)	94   (89)	7.59	7.25   (6.80)	96   (90)	2   (1)	50-160	50
4,4'-DDE	ND   (ND)	7.59	8.57   (7.88)	113   (104)	7.59	8.36   (7.95)	110   (105)	2   (1)	50-150	50
Dieldrin	ND   (ND)	7.59	9.17   (7.28)	121   (96)	7.59	9.25   (7.28)	122   (96)	1   (0)	10-160	50
Endrin	ND   (ND)	7.59	8.95   (6.83)	118   (90)	7.59	8.69   (6.81)	115   (90)	3   (0)	20-160	50
4,4'-DDD	ND   (ND)	7.59	8.44   (7.57)	111   (100)	7.59	8.27   (7.76)	109   (102)	2   (2)	50-160	50
Endosulfan II	ND   (ND)	7.59	9.74   (7.44)	128   (98)	7.59	9.43   (7.97)	124   (105)	3   (7)	40-160	50
4,4'-DDT	ND   (ND)	7.59	10.4   (8.11)	137   (107)	7.59	10.3   (7.83)	136   (103)	1   (4)	30-160	50
Endrin aldehyde	ND   (ND)	7.59	7.75   (6.18)	102   (81)	7.59	8.31   (5.87)	110   (77)	7   (5)	50-140	50
Endosulfan Sulfate	ND   (ND)	7.59	8.85   (8.05)	117   (106)	7.59	8.37   (7.62)	110   (100)	6   (5)	40-160	50
Endrin Ketone	ND   (ND)	7.59	9.66   (6.85)	127   (90)	7.59	10.1   (6.67)	133   (88)	4   (3)	50-160	50
Methoxychlor	ND   (ND)	75.9	90.3   (78.3)	119   (103)	75.9	88.3   (74.9)	116   (99)	2   (4)	60-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Tetrachloro-m-xylene	15.16	16.06   (13.50)	106   (89.0)	15.16	16.41   (13.78)	108   (90.9)	50-130
Decachlorobiphenyl	15.16	15.78   (12.03)	104   (79.3)	15.16	14.99   (11.35)	98.8   (74.8)	20-120

METHOD 3550B/8082  
PCBs

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Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID    : SL-674-SA5C-SB-0.0-0.5          Date Analyzed: 06/02/12 19:40
Lab Samp ID  : E187-01                           Dilution Factor: 1
Lab File ID  : SF01064A                         Matrix          : SOIL
Ext Btch ID  : CPE037S                          % Moisture     : 9.6
Calib. Ref. : SF01061A                         Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	12.34   (12.45)	14.75	83.7   (84.5)	45-120
TETRACHLORO-M-XYLENE	(12.54)   11.96	14.75	(85.0)   81.1	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID    : SL-674-SA5C-SB-2.5-3.5          Date Analyzed: 06/02/12 20:15
Lab Samp ID  : E187-02                           Dilution Factor: 1
Lab File ID  : SF01065A                         Matrix          : SOIL
Ext Btch ID  : CPE037S                          % Moisture     : 8.8
Calib. Ref.  : SF01061A                         Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.40)   12.36	14.62	(84.8)   84.6	45-120
TETRACHLORO-M-XYLENE	(12.40)   11.68	14.62	(84.8)   79.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 05/23/12
Project    : SSFL PHASE 3                       Date Received: 05/23/12
Batch No.  : 12E187                             Date Extracted: 05/29/12 15:12
Sample ID  : SL-675-SA5C-SB-0.0-0.5           Date Analyzed: 06/02/12 20:49
Lab Samp ID: E187-04                           Dilution Factor: 1
Lab File ID: SF01066A                          Matrix          : SOIL
Ext Btch ID: CPE037S                            % Moisture     : 5.1
Calib. Ref.: SF01061A                          Instrument ID  : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	10.42   (11.20)	14.05	74.2   (79.8)	45-120
TETRACHLORO-M-XYLENE	(12.86)   12.00	14.05	(91.5)   85.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID:   SL-678-SA5C-SB-0.0-0.5           Date Analyzed: 06/02/12 21:24
Lab Samp ID: E187-07                           Dilution Factor: 1
Lab File ID: SF01067A                          Matrix          : SOIL
Ext Btch ID: CPE037S                            % Moisture     : 9.6
Calib. Ref.: SF01061A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	10.67   (11.22)	14.75	72.4   (76.1)	45-120
TETRACHLORO-M-XYLENE	13.46   (13.76)	14.75	91.3   (93.3)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID    : SL-678-SA5C-SB-2.5-3.5          Date Analyzed: 06/02/12 21:59
Lab Samp ID  : E187-08                           Dilution Factor: 1
Lab File ID  : SF01068A                          Matrix          : SOIL
Ext Btch ID  : CPE037S                           % Moisture     : 9.7
Calib. Ref.  : SF01061A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.35   (11.64)	14.76	76.9   (78.9)	45-120
TETRACHLORO-M-XYLENE	(13.11)   12.44	14.76	(88.8)   84.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/23/12
Project    : SSFL PHASE 3                       Date Received: 05/23/12
Batch No.  : 12E187                             Date Extracted: 05/29/12 15:12
Sample ID  : SL-681-SA5C-SB-4.0-5.0           Date Analyzed: 06/02/12 22:34
Lab Samp ID: E187-12                           Dilution Factor: 1
Lab File ID: SF01069A                          Matrix          : SOIL
Ext Btch ID: CPE037S                            % Moisture     : 10.4
Calib. Ref.: SF01061A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(12.78)   12.53	14.88	(85.9)   84.2	45-120
TETRACHLORO-M-XYLENE	(12.70)   12.51	14.88	(85.4)   84.1	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID    : SL-681-SA5C-SB-7.5-8.5          Date Analyzed: 06/02/12 23:08
Lab Samp ID  : E187-14                          Dilution Factor: 1
Lab File ID  : SF01070A                        Matrix          : SOIL
Ext Btch ID  : CPE037S                         % Moisture     : 8.3
Calib. Ref.  : SF01061A                       Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.69)   12.52	14.54	(87.3)   86.1	45-120
TETRACHLORO-M-XYLENE	(12.85)   11.81	14.54	(88.4)   81.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID    : SL-676-SA5C-SB-0.0-0.5          Date Analyzed: 06/02/12 23:43
Lab Samp ID  : E187-16                          Dilution Factor: 1
Lab File ID  : SF01071A                        Matrix          : SOIL
Ext Btch ID  : CPE037S                         % Moisture     : 12.6
Calib. Ref.  : SF01061A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	9.814   (10.68)	15.25	64.3   (70.0)	45-120
TETRACHLORO-M-XYLENE	(13.52)   12.92	15.25	(88.6)   84.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID    : SL-676-SA5C-SB-4.0-5.0          Date Analyzed: 06/03/12 00:18
Lab Samp ID  : E187-17                           Dilution Factor: 1
Lab File ID  : SF01072A                         Matrix          : SOIL
Ext Btch ID  : CPE037S                          % Moisture     : 12.1
Calib. Ref.  : SF01061A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECAChLOROBIpHENYL	10.25   (10.85)	15.16	67.6   (71.5)	45-120
TETRACHLORO-M-XYLENE	(13.98)   13.16	15.16	(92.2)   86.8	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
Batch No.    : 12E187                           Date Extracted: 05/29/12 15:12
Sample ID    : SL-976-SA5C-SB-4.0-5.0          Date Analyzed: 06/03/12 02:02
Lab Samp ID  : E187-19                          Dilution Factor: 1
Lab File ID  : SF01075A                        Matrix          : SOIL
Ext Btch ID  : CPE037S                         % Moisture     : 10.7
Calib. Ref.  : SF01061A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(11.26)   11.08	14.93	(75.4)   74.2	45-120
TETRACHLORO-M-XYLENE	(12.98)   12.79	14.93	(86.9)   85.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/23/12
Project    : SSFL PHASE 3                       Date Received: 05/23/12
Batch No.  : 12E187                             Date Extracted: 05/29/12 15:12
Sample ID: SL-671-SA5C-SB-2.0-3.0             Date Analyzed: 06/03/12 02:37
Lab Samp ID: E187-21                           Dilution Factor: 1
Lab File ID: SF01076A                          Matrix          : SOIL
Ext Btch ID: CPE037S                           % Moisture     : 10.0
Calib. Ref.: SF01061A                          Instrument ID  : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.84)   12.27	14.81	(86.7)   82.8	45-120
TETRACHLORO-M-XYLENE	(12.46)   11.64	14.81	(84.1)   78.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.  : 12E187                             Date Extracted: 05/29/12 15:12
Sample ID  : MBLK1S                             Date Analyzed: 06/02/12 12:09
Lab Samp ID: 60E037SB                          Dilution Factor: 1
Lab File ID: SF01051A                          Matrix          : SOIL
Ext Btch ID: CPE037S                           % Moisture     : NA
Calib. Ref.: SF01048A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(11.78)   11.50	13.33	(88.4)   86.2	45-120
TETRACHLORO-M-XYLENE	(11.94)   11.71	13.33	(89.5)   87.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60E037SB 60E037SL 60E037SC  
LAB FILE ID: SF01051A SF01052A SF01053A  
DATE EXTRACTED: 05/29/1215:12 05/29/1215:12 05/29/1215:12 DATE COLLECTED: NA  
DATE ANALYZED: 06/02/1212:09 06/02/1212:43 06/02/1213:18 DATE RECEIVED: 05/29/12  
PREP. BATCH: CPE037S CPE037S CPE037S  
CALIB. REF: SF01048A SF01048A SF01048A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	151   (154)	91   (92)	167	150   (154)	90   (92)	1   (0)	50-130	50
Aroclor 1260	(ND)   ND	167	(166)   160	(100)   96	167	(159)   154	(95)   92	(4)   4	60-150	50
Aroclor 5460	(ND)   ND	83.3	(91.0)   89.1	(109)   107	83.3	(92.3)   91.1	(111)   109	(1)   2	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(11.99)   11.71	(90.0)   87.9	13.33	(12.47)   12.20	(93.5)   91.5	45-120
Tetrachloro-m-xylene	13.33	(11.38)   11.22	(85.3)   84.1	13.33	(12.18)   12.05	(91.4)   90.4	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 12.1  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-676-SA5C-SB-4.0-5.0  
LAB SAMP ID: E187-17 E187-17M E187-17S  
LAB FILE ID: SF01072A SF01073A SF01074A  
DATE EXTRACTED: 05/29/1215:12 05/29/1215:12 05/29/1215:12 DATE COLLECTED: 05/23/12  
DATE ANALYZED: 06/03/1200:18 06/03/1200:53 06/03/1201:28 DATE RECEIVED: 05/23/12  
PREP. BATCH: CPE037S CPE037S CPE037S  
CALIB. REF: SF01061A SF01061A SF01061A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	190	(161)   159	(85)   84	190	(163)   161	(86)   85	(1)   1	20-160	50
Aroclor 1260	(ND)   ND	190	(142)   141	(75)   74	190	(144)   142	(76)   75	(1)   1	20-160	50
Aroclor 5460	(ND)   ND	94.8	86.7   (91.3)	91   (96)	94.8	90.9   (94.6)	96   (100)	5   (4)	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	15.16	10.43   (10.78)	68.8   (71.1)	15.16	10.21   (10.70)	67.3   (70.5)	45-120
Tetrachloro-m-xylene	15.16	(14.37)   13.33	(94.7)   87.9	15.16	(14.08)   13.16	(92.8)   86.8	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/23/12
Project    : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.    : 12E187                           Date Extracted: 05/30/12 12:13
Sample ID: SL-674-SA5C-SB-0.0-0.5           Date Analyzed: 05/31/12 15:21
Lab Samp ID: E187-01                         Dilution Factor: 0.980
Lab File ID: 98E12041                        Matrix          : SOIL
Ext Btch ID: IME034S                          % Moisture     : 9.6
Calib. Ref.: 98E12039                        Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12100	108	13.0
Antimony	0.288J	0.542	0.108
Arsenic	4.76	0.542	0.217
Barium	81.0	0.542	0.217
Beryllium	0.546	0.542	0.0542
Boron	ND	5.42	2.71
Cadmium	0.158J	0.542	0.0542
Calcium	3060	21.7	10.8
Chromium	15.1	0.542	0.217
Cobalt	4.17	0.542	0.0542
Copper	6.18	0.542	0.217
Iron	16500	108	10.8
Lead	5.15	0.542	0.108
Magnesium	3240	10.8	5.42
Manganese	182	0.542	0.271
Molybdenum	0.475J	0.542	0.0542
Nickel	7.90	0.542	0.217
Potassium	1740	108	32.5
Selenium	ND	0.542	0.217
Silver	ND	0.542	0.0542
Sodium	196	108	54.2
Strontium	22.1	0.542	0.271
Thallium	0.219J	0.434	0.0542
Tin	ND	10.8	5.42
Titanium	824	1.08	0.542
Vanadium	29.8	0.542	0.0542
Zinc	33.8	5.42	1.63
Lithium	13.9	2.17	1.08
Phosphorus	133	13.0	6.50
Zirconium	ND	5.42	2.71

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/23/12
Project     : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.    : 12E187                            Date Extracted: 05/30/12 12:13
Sample ID:  SL-674-SA5C-SB-2.5-3.5           Date Analyzed: 05/31/12 15:26
Lab Samp ID: E187-02                           Dilution Factor: 0.971
Lab File ID: 98E12042                          Matrix          : SOIL
Ext Btch ID: IME034S                            % Moisture     : 8.8
Calib. Ref.: 98E12039                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15900	106	12.8
Antimony	0.301J	0.532	0.106
Arsenic	4.49	0.532	0.213
Barium	171	0.532	0.213
Beryllium	0.647	0.532	0.0532
Boron	ND	5.32	2.66
Cadmium	0.128J	0.532	0.0532
Calcium	2160	21.3	10.6
Chromium	20.1	0.532	0.213
Cobalt	3.32	0.532	0.0532
Copper	6.72	0.532	0.213
Iron	18300	106	10.6
Lead	4.72	0.532	0.106
Magnesium	3720	10.6	5.32
Manganese	103	0.532	0.266
Molybdenum	0.841	0.532	0.0532
Nickel	9.00	0.532	0.213
Potassium	1390	106	31.9
Selenium	ND	0.532	0.213
Silver	0.0579J	0.532	0.0532
Sodium	290	106	53.2
Strontium	23.6	0.532	0.266
Thallium	0.200J	0.426	0.0532
Tin	ND	10.6	5.32
Titanium	698	1.06	0.532
Vanadium	30.8	0.532	0.0532
Zinc	36.3	5.32	1.60
Lithium	16.9	2.13	1.06
Phosphorus	94.3	12.8	6.39
Zirconium	ND	5.32	2.66

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.     : 12E187                           Date Extracted: 05/30/12 12:13
Sample ID   : SL-675-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 15:30
Lab Samp ID : E187-04                           Dilution Factor: 0.971
Lab File ID : 98E12043                          Matrix          : SOIL
Ext Btch ID : IME034S                           % Moisture     : 5.1
Calib. Ref. : 98E12039                          Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10300	102	12.3
Antimony	0.194J	0.512	0.102
Arsenic	3.73	0.512	0.205
Barium	80.8	0.512	0.205
Beryllium	0.525	0.512	0.0512
Boron	ND	5.12	2.56
Cadmium	0.201J	0.512	0.0512
Calcium	2240	20.5	10.2
Chromium	15.1	0.512	0.205
Cobalt	5.75	0.512	0.0512
Copper	6.73	0.512	0.205
Iron	18200	102	10.2
Lead	4.60	0.512	0.102
Magnesium	4720	10.2	5.12
Manganese	215	0.512	0.256
Molybdenum	0.417J	0.512	0.0512
Nickel	9.85	0.512	0.205
Potassium	2870	102	30.7
Selenium	ND	0.512	0.205
Silver	ND	0.512	0.0512
Sodium	210	102	51.2
Strontium	17.1	0.512	0.256
Thallium	0.227J	0.409	0.0512
Tin	ND	10.2	5.12
Titanium	1070	1.02	0.512
Vanadium	32.7	0.512	0.0512
Zinc	53.2	5.12	1.53
Lithium	25.6	2.05	1.02
Phosphorus	330	12.3	6.14
Zirconium	ND	5.12	2.56

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.     : 12E187                           Date Extracted: 05/30/12 12:13
Sample ID   : SL-678-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 15:35
Lab Samp ID : E187-07                          Dilution Factor: 0.990
Lab File ID : 98E12044                        Matrix         : SOIL
Ext Btch ID : IME034S                         % Moisture    : 9.6
Calib. Ref. : 98E12039                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18200	110	13.1
Antimony	0.231J	0.548	0.110
Arsenic	6.19	0.548	0.219
Barium	119	0.548	0.219
Beryllium	0.911	0.548	0.0548
Boron	22.1	5.48	2.74
Cadmium	0.170J	0.548	0.0548
Calcium	2290	21.9	11.0
Chromium	20.3	0.548	0.219
Cobalt	5.05	0.548	0.0548
Copper	5.98	0.548	0.219
Iron	23000	110	11.0
Lead	6.23	0.548	0.110
Magnesium	4750	11.0	5.48
Manganese	136	0.548	0.274
Molybdenum	0.338J	0.548	0.0548
Nickel	8.55	0.548	0.219
Potassium	1770	110	32.9
Selenium	ND	0.548	0.219
Silver	ND	0.548	0.0548
Sodium	285	110	54.8
Strontium	25.4	0.548	0.274
Thallium	0.299J	0.438	0.0548
Tin	ND	11.0	5.48
Titanium	1100	1.10	0.548
Vanadium	42.6	0.548	0.0548
Zinc	41.3	5.48	1.64
Lithium	22.0	2.19	1.10
Phosphorus	95.7	13.1	6.57
Zirconium	ND	5.48	2.74

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.     : 12E187                            Date Extracted: 05/30/12 12:13
Sample ID   : SL-678-SA5C-SB-2.5-3.5          Date Analyzed: 05/31/12 15:40
Lab Samp ID : E187-08                           Dilution Factor: 0.962
Lab File ID : 98E12045                          Matrix          : SOIL
Ext Btch ID : IME034S                            % Moisture     : 9.7
Calib. Ref. : 98E12039                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16300	107	12.8
Antimony	0.216J	0.533	0.107
Arsenic	5.13	0.533	0.213
Barium	95.1	0.533	0.213
Beryllium	0.768	0.533	0.0533
Boron	15.7	5.33	2.66
Cadmium	0.148J	0.533	0.0533
Calcium	2020	21.3	10.7
Chromium	18.4	0.533	0.213
Cobalt	4.08	0.533	0.0533
Copper	6.42	0.533	0.213
Iron	20700	107	10.7
Lead	5.45	0.533	0.107
Magnesium	4700	10.7	5.33
Manganese	119	0.533	0.266
Molybdenum	0.336J	0.533	0.0533
Nickel	10.2	0.533	0.213
Potassium	2010	107	32.0
Selenium	ND	0.533	0.213
Silver	ND	0.533	0.0533
Sodium	259	107	53.3
Strontium	21.9	0.533	0.266
Thallium	0.284J	0.426	0.0533
Tin	ND	10.7	5.33
Titanium	1040	1.07	0.533
Vanadium	37.8	0.533	0.0533
Zinc	39.4	5.33	1.60
Lithium	29.4	2.13	1.07
Phosphorus	106	12.8	6.39
Zirconium	ND	5.33	2.66

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.     : 12E187                           Date Extracted: 05/30/12 12:13
Sample ID   : SL-681-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 15:44
Lab Samp ID : E187-12                          Dilution Factor: 0.995
Lab File ID : 98E12046                        Matrix          : SOIL
Ext Btch ID : IME034S                         % Moisture     : 10.4
Calib. Ref. : 98E12039                       Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19500	111	13.3
Antimony	0.244J	0.555	0.111
Arsenic	4.51	0.555	0.222
Barium	98.5	0.555	0.222
Beryllium	0.790	0.555	0.0555
Boron	ND	5.55	2.78
Cadmium	0.146J	0.555	0.0555
Calcium	1900	22.2	11.1
Chromium	20.9	0.555	0.222
Cobalt	14.7	0.555	0.0555
Copper	6.67	0.555	0.222
Iron	22900	111	11.1
Lead	5.08	0.555	0.111
Magnesium	5210	11.1	5.55
Manganese	165	0.555	0.278
Molybdenum	0.632	0.555	0.0555
Nickel	9.05	0.555	0.222
Potassium	1890	111	33.3
Selenium	ND	0.555	0.222
Silver	ND	0.555	0.0555
Sodium	1150	111	55.5
Strontium	25.5	0.555	0.278
Thallium	0.238J	0.444	0.0555
Tin	ND	11.1	5.55
Titanium	1180	1.11	0.555
Vanadium	39.2	0.555	0.0555
Zinc	43.8	5.55	1.67
Lithium	26.1	2.22	1.11
Phosphorus	155	13.3	6.66
Zirconium	ND	5.55	2.78

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/23/12
Project     : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.    : 12E187                           Date Extracted: 05/30/12 12:13
Sample ID:  SL-681-SA5C-SB-7.5-8.5           Date Analyzed: 05/31/12 15:49
Lab Samp ID: E187-14                          Dilution Factor: 0.985
Lab File ID: 98E12047                         Matrix          : SOIL
Ext Btch ID: IME034S                          % Moisture     : 8.3
Calib. Ref.: 98E12039                         Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13800	107	12.9
Antimony	0.235J	0.537	0.107
Arsenic	5.07	0.537	0.215
Barium	111	0.537	0.215
Beryllium	0.611	0.537	0.0537
Boron	ND	5.37	2.69
Cadmium	0.173J	0.537	0.0537
Calcium	2860	21.5	10.7
Chromium	21.2	0.537	0.215
Cobalt	6.55	0.537	0.0537
Copper	9.17	0.537	0.215
Iron	24000	107	10.7
Lead	3.83	0.537	0.107
Magnesium	5530	10.7	5.37
Manganese	444	0.537	0.269
Molybdenum	0.588	0.537	0.0537
Nickel	10.4	0.537	0.215
Potassium	2390	107	32.2
Selenium	ND	0.537	0.215
Silver	ND	0.537	0.0537
Sodium	713	107	53.7
Strontium	18.0	0.537	0.269
Thallium	0.279J	0.430	0.0537
Tin	ND	10.7	5.37
Titanium	1350	1.07	0.537
Vanadium	40.4	0.537	0.0537
Zinc	54.7	5.37	1.61
Lithium	22.8	2.15	1.07
Phosphorus	463	12.9	6.44
Zirconium	ND	5.37	2.69

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/23/12
Project    : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.    : 12E187                           Date Extracted: 05/30/12 12:13
Sample ID: SL-676-SA5C-SB-0.0-0.5           Date Analyzed: 05/31/12 15:53
Lab Samp ID: E187-16                         Dilution Factor: 0.962
Lab File ID: 98E12048                        Matrix          : SOIL
Ext Btch ID: IME034S                          % Moisture     : 12.6
Calib. Ref.: 98E12039                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14000	110	13.2
Antimony	0.218J	0.550	0.110
Arsenic	4.53	0.550	0.220
Barium	83.3	0.550	0.220
Beryllium	0.597	0.550	0.0550
Boron	ND	5.50	2.75
Cadmium	0.147J	0.550	0.0550
Calcium	2530	22.0	11.0
Chromium	16.1	0.550	0.220
Cobalt	3.88	0.550	0.0550
Copper	5.52	0.550	0.220
Iron	18300	110	11.0
Lead	5.20	0.550	0.110
Magnesium	3930	11.0	5.50
Manganese	112	0.550	0.275
Molybdenum	0.315J	0.550	0.0550
Nickel	7.17	0.550	0.220
Potassium	1580	110	33.0
Selenium	ND	0.550	0.220
Silver	ND	0.550	0.0550
Sodium	327	110	55.0
Strontium	22.2	0.550	0.275
Thallium	0.254J	0.440	0.0550
Tin	ND	11.0	5.50
Titanium	955	1.10	0.550
Vanadium	31.2	0.550	0.0550
Zinc	35.1	5.50	1.65
Lithium	16.6	2.20	1.10
Phosphorus	93.2	13.2	6.60
Zirconium	ND	5.50	2.75

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.     : 12E187                           Date Extracted: 05/30/12 12:13
Sample ID   : SL-676-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 16:25
Lab Samp ID : E187-17                          Dilution Factor: 0.990
Lab File ID : 98E12055                         Matrix          : SOIL
Ext Btch ID : IME034S                          % Moisture     : 12.1
Calib. Ref. : 98E12050                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13900	113	13.5
Antimony	0.310J	0.563	0.113
Arsenic	6.06	0.563	0.225
Barium	95.6	0.563	0.225
Beryllium	0.705	0.563	0.0563
Boron	ND	5.63	2.82
Cadmium	0.175J	0.563	0.0563
Calcium	2460	22.5	11.3
Chromium	16.2	0.563	0.225
Cobalt	3.57	0.563	0.0563
Copper	6.21	0.563	0.225
Iron	20200	113	11.3
Lead	5.80	0.563	0.113
Magnesium	4590	11.3	5.63
Manganese	130	0.563	0.282
Molybdenum	0.469J	0.563	0.0563
Nickel	7.78	0.563	0.225
Potassium	1850	113	33.8
Selenium	ND	0.563	0.225
Silver	ND	0.563	0.0563
Sodium	729	113	56.3
Strontium	25.0	0.563	0.282
Thallium	0.238J	0.451	0.0563
Tin	ND	11.3	5.63
Titanium	906	1.13	0.563
Vanadium	35.9	0.563	0.0563
Zinc	38.8	5.63	1.69
Lithium	29.5	2.25	1.13
Phosphorus	258	13.5	6.76
Zirconium	ND	5.63	2.82

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/23/12
Project     : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.    : 12E187                            Date Extracted: 05/30/12 12:13
Sample ID:  SL-976-SA5C-SB-4.0-5.0           Date Analyzed: 05/31/12 16:46
Lab Samp ID: E187-19                          Dilution Factor: 0.985
Lab File ID: 98E12058                         Matrix          : SOIL
Ext Btch ID: IME034S                          % Moisture     : 10.7
Calib. Ref.: 98E12050                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14300	110	13.2
Antimony	0.214J	0.552	0.110
Arsenic	4.34	0.552	0.221
Barium	85.9	0.552	0.221
Beryllium	0.657	0.552	0.0552
Boron	ND	5.52	2.76
Cadmium	0.152J	0.552	0.0552
Calcium	1980	22.1	11.0
Chromium	17.3	0.552	0.221
Cobalt	3.09	0.552	0.0552
Copper	5.62	0.552	0.221
Iron	19800	110	11.0
Lead	5.40	0.552	0.110
Magnesium	4570	11.0	5.52
Manganese	102	0.552	0.276
Molybdenum	0.338J	0.552	0.0552
Nickel	7.26	0.552	0.221
Potassium	1580	110	33.1
Selenium	ND	0.552	0.221
Silver	ND	0.552	0.0552
Sodium	793	110	55.2
Strontium	22.6	0.552	0.276
Thallium	0.230J	0.441	0.0552
Tin	ND	11.0	5.52
Titanium	962	1.10	0.552
Vanadium	33.7	0.552	0.0552
Zinc	37.0	5.52	1.65
Lithium	28.2	2.21	1.10
Phosphorus	101	13.2	6.62
Zirconium	ND	5.52	2.76

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/23/12
Project      : SSFL PHASE 3                     Date Received: 05/23/12
SDG NO.     : 12E187                           Date Extracted: 05/30/12 12:13
Sample ID   : SL-671-SA5C-SB-2.0-3.0          Date Analyzed: 05/31/12 16:51
Lab Samp ID : E187-21                          Dilution Factor: 0.990
Lab File ID : 98E12059                         Matrix          : SOIL
Ext Btch ID : IME034S                          % Moisture     : 10.0
Calib. Ref. : 98E12050                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13900	110	13.2
Antimony	0.258J	0.550	0.110
Arsenic	5.90	0.550	0.220
Barium	62.4	0.550	0.220
Beryllium	0.581	0.550	0.0550
Boron	ND	5.50	2.75
Cadmium	0.130J	0.550	0.0550
Calcium	2920	22.0	11.0
Chromium	24.3	0.550	0.220
Cobalt	3.97	0.550	0.0550
Copper	9.45	0.550	0.220
Iron	23700	110	11.0
Lead	6.90	0.550	0.110
Magnesium	4760	11.0	5.50
Manganese	121	0.550	0.275
Molybdenum	0.504J	0.550	0.0550
Nickel	10.0	0.550	0.220
Potassium	1210	110	33.0
Selenium	ND	0.550	0.220
Silver	ND	0.550	0.0550
Sodium	403	110	55.0
Strontium	27.3	0.550	0.275
Thallium	0.199J	0.440	0.0550
Tin	ND	11.0	5.50
Titanium	794	1.10	0.550
Vanadium	34.1	0.550	0.0550
Zinc	46.4	5.50	1.65
Lithium	20.7	2.20	1.10
Phosphorus	157	13.2	6.60
Zirconium	ND	5.50	2.75

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/30/12
SDG NO.    : 12E187                           Date Extracted: 05/30/12 12:13
Sample ID:  MBLK1S                             Date Analyzed: 05/31/12 13:41
Lab Samp ID: IME034SB                         Dilution Factor: 1
Lab File ID: 98E12019                         Matrix          : SOIL
Ext Btch ID: IME034S                           % Moisture     : NA
Calib. Ref.: 98E12017                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E187  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IME034SB IME034SL IME034SC  
LAB FILE ID: 98E12019 98E12020 98E12021  
DATIME EXTRACTD: 05/30/1212:13 05/30/1212:13 05/30/1212:13 DATE COLLECTED: NA  
DATIME ANALYZD: 05/31/1213:41 05/31/1213:45 05/31/1213:50 DATE RECEIVED: 05/30/12  
PREP. BATCH: IME034S IME034S IME034S  
CALIB. REF: 98E12017 98E12017 98E12017

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2590	103	2500	2540	102	2	80-120	20
Antimony	ND	25.0	25.5	102	25.0	25.1	100	2	80-120	20
Arsenic	ND	25.0	24.6	98	25.0	24.8	99	1	80-120	20
Barium	ND	25.0	25.5	102	25.0	25.0	100	2	80-120	20
Beryllium	ND	25.0	25.3	101	25.0	24.7	99	2	80-120	20
Boron	ND	25.0	25.6	102	25.0	25.4	101	1	80-120	20
Cadmium	ND	25.0	25.0	100	25.0	24.6	98	2	80-120	20
Calcium	ND	2500	2690	108	2500	2650	106	1	80-120	20
Chromium	ND	25.0	25.0	100	25.0	24.5	98	2	80-120	20
Cobalt	ND	25.0	25.2	101	25.0	24.8	99	2	80-120	20
Copper	ND	25.0	24.5	98	25.0	24.1	96	2	80-120	20
Iron	ND	2500	2640	106	2500	2610	105	1	80-120	20
Lead	ND	25.0	25.8	103	25.0	25.2	101	2	80-120	20
Magnesium	ND	2500	2580	103	2500	2540	102	1	80-120	20
Manganese	ND	25.0	25.6	103	25.0	25.4	102	1	80-120	20
Molybdenum	ND	25.0	25.2	101	25.0	24.8	99	2	80-120	20
Nickel	ND	25.0	24.4	98	25.0	24.1	96	2	80-120	20
Potassium	ND	2500	2640	105	2500	2560	102	3	80-120	20
Selenium	ND	25.0	24.7	99	25.0	24.5	98	1	80-120	20
Silver	ND	25.0	25.1	100	25.0	24.7	99	2	80-120	20
Sodium	ND	2500	2630	105	2500	2590	103	2	80-120	20
Strontium	ND	25.0	25.8	103	25.0	25.1	101	3	80-120	20
Thallium	ND	25.0	25.8	103	25.0	25.3	101	2	80-120	20
Tin	ND	25.0	27.8	111	25.0	27.4	109	1	80-120	20
Titanium	ND	25.0	25.6	102	25.0	25.3	101	1	80-120	20
Vanadium	ND	25.0	24.9	100	25.0	24.4	98	2	80-120	20
Zinc	ND	50.0	48.8	98	50.0	47.6	95	2	80-120	20
Lithium	ND	25.0	25.6	102	25.0	25.3	101	1	80-120	20
Phosphorus	ND	250	242	97	250	240	96	1	80-120	20
Zirconium	ND	25.0	25.3	101	25.0	25.0	100	1	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E187  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 12.1  
DILTN FACTR: 0.990 0.985 0.980  
SAMPLE ID: SL-676-SA5C-SB-4.0-5.0  
CONTROL NO.: E187-17 E187-17M E187-17S  
LAB FILE ID: 98E12055 98E12052 98E12053  
DATIME EXTRACTD: 05/30/1212:13 05/30/1212:13 05/30/1212:13 DATE COLLECTED: 05/23/12  
DATIME ANALYZD: 05/31/1216:25 05/31/1216:12 05/31/1216:16 DATE RECEIVED: 05/23/12  
PREP. BATCH: IME034S IME034S IME034S  
CALIB. REF: 98E12050 98E12050 98E12050

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	13900	2800	17400	124	2790	17000	112	2	75-125	20
Antimony	0.310J	28.0	25.1	89	27.9	24.2	86	4	75-125	20
Arsenic	6.06	28.0	30.8	88	27.9	30.9	89	0	75-125	20
Barium	95.6	28.0	126	107	27.9	124	103	1	75-125	20
Beryllium	0.705	28.0	28.9	101	27.9	29.4	103	2	75-125	20
Boron	ND	28.0	28.6	102	27.9	29.0	104	1	75-125	20
Cadmium	0.175J	28.0	27.7	98	27.9	27.4	98	1	75-125	20
Calcium	2460	2800	5150	96	2790	5150	96	0	75-125	20
Chromium	16.2	28.0	40.9	88	27.9	41.1	89	0	75-125	20
Cobalt	3.57	28.0	28.4	89	27.9	28.5	89	0	75-125	20
Copper	6.21	28.0	29.5	83	27.9	30.0	85	2	75-125	20
Iron	20200	2800	22200	70*	2790	22800	93	3	75-125	20
Lead	5.80	28.0	33.5	99	27.9	33.8	101	1	75-125	20
Magnesium	4590	2800	7000	86	2790	7120	91	2	75-125	20
Manganese	130	28.0	151	74*	27.9	152	78	1	75-125	20
Molybdenum	0.469J	28.0	27.9	98	27.9	27.6	97	1	75-125	20
Nickel	7.78	28.0	31.2	84	27.9	31.6	85	1	75-125	20
Potassium	1850	2800	4650	100	2790	4700	102	1	75-125	20
Selenium	ND	28.0	26.5	95	27.9	26.5	95	0	75-125	20
Silver	ND	28.0	27.2	97	27.9	26.8	96	1	75-125	20
Sodium	729	2800	3360	94	2790	3280	92	2	75-125	20
Strontium	25.0	28.0	51.1	93	27.9	52.0	97	2	75-125	20
Thallium	0.238J	28.0	28.6	101	27.9	27.7	99	3	75-125	20
Tin	ND	28.0	32.1	115	27.9	31.7	114	1	75-125	20
Titanium	906	28.0	1000	338*	27.9	965	211*	4	75-125	20
Vanadium	35.9	28.0	59.6	84	27.9	60.7	89	2	75-125	20
Zinc	38.8	56.0	88.7	89	55.7	89.2	90	1	75-125	20
Lithium	29.5	28.0	58.9	105	27.9	60.3	111	2	75-125	20
Phosphorus	258	280	515	92	279	524	96	2	75-125	20
Zirconium	ND	28.0	27.5	98	27.9	27.2	97	1	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E187  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 12.1  
DILTN FACTR: 0.990 0.990  
SAMPLE ID: SL-676-SA5C-SB-4.0-5.0  
CONTROL NO.: E187-17 E187-17A  
LAB FILE ID: 98E12055 98E12054  
DATIME EXTRACTD: 05/30/1212:13 05/30/1212:13 DATE COLLECTED: 05/23/12  
DATIME ANALYZD: 05/31/1216:25 05/31/1216:21 DATE RECEIVED: 05/23/12  
PREP. BATCH: IME034S IME034S  
CALIB. REF: 98E12050 98E12050

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	13900	2820	16600	96	75-125
Antimony	0.310J	28.2	27.9	98	75-125
Arsenic	6.06	28.2	31.3	90	75-125
Barium	95.6	28.2	129	117	75-125
Beryllium	0.705	28.2	28.5	99	75-125
Boron	ND	28.2	29.0	103	75-125
Cadmium	0.175J	28.2	27.0	95	75-125
Calcium	2460	2820	5300	101	75-125
Chromium	16.2	28.2	40.7	87	75-125
Cobalt	3.57	28.2	28.2	88	75-125
Copper	6.21	28.2	29.5	83	75-125
Iron	20200	2820	22900	95	75-125
Lead	5.80	28.2	33.1	97	75-125
Magnesium	4590	2820	7120	90	75-125
Manganese	130	28.2	153	83	75-125
Molybdenum	0.469J	28.2	27.4	96	75-125
Nickel	7.78	28.2	31.2	83	75-125
Potassium	1850	2820	4760	104	75-125
Selenium	ND	28.2	26.5	94	75-125
Silver	ND	28.2	26.3	94	75-125
Sodium	729	2820	3370	94	75-125
Strontium	25.0	28.2	52.0	96	75-125
Thallium	0.238J	28.2	28.1	99	75-125
Tin	ND	28.2	31.2	111	75-125
Titanium	906	28.2	926	70*	75-125
Vanadium	35.9	28.2	60.7	88	75-125
Zinc	38.8	56.3	86.9	86	75-125
Lithium	29.5	28.2	57.9	101	75-125
Phosphorus	258	282	541	101	75-125
Zirconium	ND	28.2	28.4	101	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E187  
 METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 12.1  
 DILUTION FACTOR: 0.990 4.95  
 SAMPLE ID: SL-676-SA5C-SB SL-676-SA5C-SB  
 EMAX SAMP ID: E187-17 E187-17J  
 LAB FILE ID: 98E12055 98E12056  
 DATE EXTRACTED: 05/30/1212:13 05/30/1212:13 DATE COLLECTED: 05/23/12  
 DATE ANALYZED: 05/31/1216:25 05/31/1216:30 DATE RECEIVED: 05/23/12  
 PREP. BATCH: IME034S IME034S  
 CALIB. REF: 98E12050 98E12050

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	13900	14900	7	10
Antimony	0.310J	ND	NA	10
Arsenic	6.06	6.50	7	10
Barium	95.6	93.5	2	10
Beryllium	0.705	0.708J	NA	10
Boron	ND	ND	0	10
Cadmium	0.175J	ND	NA	10
Calcium	2460	2630	7	10
Chromium	16.2	17.4	7	10
Cobalt	3.57	3.84	8	10
Copper	6.21	7.03	13*	10
Iron	20200	21600	7	10
Lead	5.80	5.89	2	10
Magnesium	4590	4950	8	10
Manganese	130	143	10	10
Molybdenum	0.469J	0.500J	NA	10
Nickel	7.78	8.48	9	10
Potassium	1850	1960	6	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	729	751	3	10
Strontium	25.0	24.7	1	10
Thallium	0.238J	ND	NA	10
Tin	ND	ND	0	10
Titanium	906	937	3	10
Vanadium	35.9	38.0	6	10
Zinc	38.8	41.1	6	10
Lithium	29.5	28.6	3	10
Phosphorus	258	293	14*	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E187

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS			RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
		(mg/kg)	DLF	MOIST									
MBLK1S	HGE028SB	ND	1	NA	0.100	0.0500	05/31/1215:38	05/30/1217:15	M47E022040	M47E022032	HGE028S	NA	05/30/12
LCS1S	HGE028SL	0.908	1	NA	0.100	0.0500	05/31/1215:40	05/30/1217:15	M47E022041	M47E022032	HGE028S	NA	05/30/12
LCD1S	HGE028SC	0.907	1	NA	0.100	0.0500	05/31/1215:42	05/30/1217:15	M47E022042	M47E022032	HGE028S	NA	05/30/12
SL-676-SA5C-SB-4.0-5.0AS	E187-17A	1.00	0.997	12.1	0.113	0.0567	05/31/1215:44	05/30/1217:15	M47E022043	M47E022032	HGE028S	05/23/12	05/23/12
SL-676-SA5C-SB-4.0-5.0	E187-17	ND	0.997	12.1	0.113	0.0567	05/31/1215:50	05/30/1217:15	M47E022046	M47E022044	HGE028S	05/23/12	05/23/12
SL-676-SA5C-SB-4.0-5.0DL	E187-17J	ND	4.98	12.1	0.567	0.283	05/31/1215:52	05/30/1217:15	M47E022047	M47E022044	HGE028S	05/23/12	05/23/12
SL-676-SA5C-SB-4.0-5.0MS	E187-17M	1.04	0.987	12.1	0.112	0.0561	05/31/1215:54	05/30/1217:15	M47E022048	M47E022044	HGE028S	05/23/12	05/23/12
SL-676-SA5C-SB-4.0-5.0MSD	E187-17S	1.03	0.990	12.1	0.113	0.0563	05/31/1215:56	05/30/1217:15	M47E022049	M47E022044	HGE028S	05/23/12	05/23/12
SL-674-SA5C-SB-0.0-0.5	E187-01	ND	0.997	9.6	0.110	0.0551	05/31/1215:58	05/30/1217:15	M47E022050	M47E022044	HGE028S	05/23/12	05/23/12
SL-674-SA5C-SB-2.5-3.5	E187-02	ND	0.998	8.8	0.109	0.0547	05/31/1216:01	05/30/1217:15	M47E022051	M47E022044	HGE028S	05/23/12	05/23/12
SL-675-SA5C-SB-0.0-0.5	E187-04	ND	0.992	5.1	0.105	0.0523	05/31/1216:03	05/30/1217:15	M47E022052	M47E022044	HGE028S	05/23/12	05/23/12
SL-678-SA5C-SB-0.0-0.5	E187-07	ND	0.997	9.6	0.110	0.0551	05/31/1216:05	05/30/1217:15	M47E022053	M47E022044	HGE028S	05/23/12	05/23/12
SL-678-SA5C-SB-2.5-3.5	E187-08	ND	0.988	9.7	0.109	0.0547	05/31/1216:07	05/30/1217:15	M47E022054	M47E022044	HGE028S	05/23/12	05/23/12
SL-681-SA5C-SB-4.0-5.0	E187-12	ND	0.990	10.4	0.110	0.0552	05/31/1216:10	05/30/1217:15	M47E022055	M47E022044	HGE028S	05/23/12	05/23/12
SL-681-SA5C-SB-7.5-8.5	E187-14	ND	0.992	8.3	0.108	0.0541	05/31/1216:16	05/30/1217:15	M47E022058	M47E022056	HGE028S	05/23/12	05/23/12
SL-676-SA5C-SB-0.0-0.5	E187-16	ND	0.987	12.6	0.113	0.0565	05/31/1216:18	05/30/1217:15	M47E022059	M47E022056	HGE028S	05/23/12	05/23/12
SL-976-SA5C-SB-4.0-5.0	E187-19	ND	0.997	10.7	0.112	0.0558	05/31/1216:21	05/30/1217:15	M47E022060	M47E022056	HGE028S	05/23/12	05/23/12
SL-671-SA5C-SB-2.0-3.0	E187-21	ND	0.993	10.0	0.110	0.0552	05/31/1216:23	05/30/1217:15	M47E022061	M47E022056	HGE028S	05/23/12	05/23/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E187  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGE028SB HGE028SL HGE028SC  
LAB FILE ID: M47E022040 M47E022041 M47E022042  
DATIME EXTRCTD: 05/30/1217:15 05/30/1217:15 05/30/1217:15 DATE COLLECTED: NA  
DATIME ANALYZD: 05/31/1215:38 05/31/1215:40 05/31/1215:42 DATE RECEIVED: 05/30/12  
PREP. BATCH: HGE028S HGE028S HGE028S  
CALIB. REF: M47E022032 M47E022032 M47E022032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.908	109	.833	.907	109	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E187  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 12.1  
DILTN FACTR: 0.997 0.987 0.990  
SAMPLE ID: SL-676-SA5C-SB-4.0-5.0  
CONTROL NO.: E187-17 E187-17M E187-17S  
LAB FILE ID: M47E022046 M47E022048 M47E022049  
DATIME EXTRCTD: 05/30/1217:15 05/30/1217:15 05/30/1217:15 DATE COLLECTED: 05/23/12  
DATIME ANALYZD: 05/31/1215:50 05/31/1215:54 05/31/1215:56 DATE RECEIVED: 05/23/12  
PREP. BATCH: HGE028S HGE028S HGE028S  
CALIB. REF: M47E022044 M47E022044 M47E022044

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.935	1.04	111	.938	1.03	110	1	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E187  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 12.1  
DILTN FACTR: 0.997 0.997  
SAMPLE ID: SL-676-SA5C-SB-4.0-5.0  
CONTROL NO.: E187-17 E187-17A  
LAB FILE ID: M47E022046 M47E022043  
DATIME EXTRACTD: 05/30/1217:15 05/30/1217:15 DATE COLLECTED: 05/23/12  
DATIME ANALYZD: 05/31/1215:50 05/31/1215:44 DATE RECEIVED: 05/23/12  
PREP. BATCH: HGE028S HGE028S  
CALIB. REF: M47E022044 M47E022032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.945	1	106	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E187  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 12.1  
 DILUTION FACTOR: 0.997 4.98  
 SAMPLE ID: SL-676-SA5C-SB-4.0- E187-17J  
 EMAX SAMP ID: E187-17  
 LAB FILE ID: M47E022046 M47E022047  
 DATE EXTRACTED: 05/30/1217:15 05/30/1217:15 DATE COLLECTED: 05/23/12  
 DATE ANALYZED: 05/31/1215:50 05/31/1215:52 DATE RECEIVED: 05/23/12  
 PREP. BATCH: HGE028S HGE028S  
 CALIB. REF: M47E022044 M47E022044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E187  
 =====

Matrix : SOIL  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLF001SB	ND	1	NA	5.00	2.50	06/05/1211:42	06/05/1210:02	NF05004	NF05003	PLF001S	NA	06/05/12
LCS1S	PLF001SL	26.0	1	NA	5.00	2.50	06/05/1212:31	06/05/1210:02	NF05005	NF05003	PLF001S	NA	06/05/12
LCD1S	PLF001SC	25.0	1	NA	5.00	2.50	06/05/1212:45	06/05/1210:02	NF05006	NF05003	PLF001S	NA	06/05/12
SL-674-SA5C-SB-0.0-0.5	E187-01	ND	1	9.6	5.53	2.77	06/05/1212:59	06/05/1210:02	NF05007	NF05003	PLF001S	05/23/1210:59	05/23/12
SL-674-SA5C-SB-2.5-3.5	E187-02	ND	1	8.8	5.48	2.74	06/05/1213:13	06/05/1210:02	NF05008	NF05003	PLF001S	05/23/1211:02	05/23/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E187  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLF001SB PLF001SL PLF001SC  
LAB FILE ID: NF05004 NF05005 NF05006  
DATE EXTRACTED: 06/05/1210:02 06/05/1210:02 06/05/1210:02 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1211:42 06/05/1212:31 06/05/1212:45 DATE RECEIVED: 06/05/12  
PREP. BATCH: PLF001S PLF001S PLF001S  
CALIB. REF: NF05003 NF05003 NF05003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	26.0	104	25.0	25.0	100	4	85-115	20

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E187  
=====

Matrix : SOIL  
Instrument ID : 53  
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SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	RL			MDL	Analysis DATETIME	Extraction			CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
			DLF	MOIST	(pH Unit)			(pH Unit)	DATETIME	LFID				
SL-674-SA5C-SB-0.0-0.5	E187-01	9.93	1	NA	NA	NA	05/24/1213:46	05/24/1212:15	PHE02801	NA	PHE028S	05/23/1210:59	05/23/12	
SL-674-SA5C-SB-2.5-3.5	E187-02	7.92	1	NA	NA	NA	05/24/1213:48	05/24/1212:15	PHE02802	NA	PHE028S	05/23/1211:02	05/23/12	
SL-675-SA5C-SB-0.0-0.5	E187-04	8.32	1	NA	NA	NA	05/24/1213:49	05/24/1212:15	PHE02803	NA	PHE028S	05/23/1210:26	05/23/12	
SL-678-SA5C-SB-0.0-0.5	E187-07	8.07	1	NA	NA	NA	05/24/1213:52	05/24/1212:15	PHE02805	NA	PHE028S	05/23/1209:42	05/23/12	
SL-678-SA5C-SB-2.5-3.5	E187-08	8.17	1	NA	NA	NA	05/24/1213:53	05/24/1212:15	PHE02806	NA	PHE028S	05/23/1209:46	05/23/12	
SL-681-SA5C-SB-4.0-5.0	E187-12	8.88	1	NA	NA	NA	05/24/1213:55	05/24/1212:15	PHE02808	NA	PHE028S	05/23/1207:59	05/23/12	
SL-681-SA5C-SB-7.5-8.5	E187-14	8.66	1	NA	NA	NA	05/24/1213:56	05/24/1212:15	PHE02809	NA	PHE028S	05/23/1208:05	05/23/12	
SL-676-SA5C-SB-0.0-0.5	E187-16	8.53	1	NA	NA	NA	05/24/1213:57	05/24/1212:15	PHE02810	NA	PHE028S	05/23/1214:40	05/23/12	
SL-676-SA5C-SB-4.0-5.0	E187-17	8.73	1	NA	NA	NA	05/24/1213:59	05/24/1212:15	PHE02811	NA	PHE028S	05/23/1214:43	05/23/12	
SL-676-SA5C-SB-4.0-5.0DUPE187-17D		8.72	1	NA	NA	NA	05/24/1214:00	05/24/1212:15	PHE02812	NA	PHE028S	05/23/1214:43	05/23/12	
SL-976-SA5C-SB-4.0-5.0	E187-19	8.79	1	NA	NA	NA	05/24/1214:01	05/24/1212:15	PHE02813	NA	PHE028S	05/23/1215:11	05/23/12	
SL-671-SA5C-SB-2.0-3.0	E187-21	8.24	1	NA	NA	NA	05/24/1214:03	05/24/1212:15	PHE02814	NA	PHE028S	05/23/1213:38	05/23/12	

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E187	DATE RECEIVED:	05/23/12
SAMPLE ID:	SL-676-SA5C-SB-4.0-5.0DUP	DATE EXTRACTED:	05/24/12 12:15
CONTROL NO.:	E187-17D	DATE ANALYZED:	05/24/12 14:00

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	8.73	8.72	0.01	0.1

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-706-SA5C-SB-0.0-0.5           Date Analyzed: 06/05/12 17:44
Lab Samp ID: E229-01                           Dilution Factor: 3
Lab File ID: RFL074                            Matrix          : SOIL
Ext Btch ID: SVF005S                           % Moisture     : 6.8
Calib. Ref.: REL181                            Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	32	8.0
ACENAPHTHYLENE	ND	32	8.0
ANTHRACENE	ND	32	8.0
BENZO (A) ANTHRACENE	14J	32	8.0
BENZO (A) PYRENE	22J	32	8.0
BENZO (B) FLUORANTHENE	37	32	8.0
BENZO (K) FLUORANTHENE	21J	32	8.0
BENZO (G, H, I) PERYLENE	11J	32	8.0
CHRYSENE	33	32	8.0
DIBENZO (A, H) ANTHRACENE	ND	32	8.0
FLUORANTHENE	32J	32	8.0
FLUORENE	ND	32	8.0
INDENO (1, 2, 3-CD) PYRENE	ND	32	8.0
NAPHTHALENE	ND	32	8.0
PHENANTHRENE	ND	32	8.0
2-METHYLNAPHTHALENE	ND	32	8.0
1-METHYLNAPHTHALENE	ND	32	8.0
N-NITROSODIMETHYLAMINE	ND	32	8.0
PYRENE	32J	32	8.0
AZOBENZENE	ND	16	8.0
BENZO (E) PYRENE	28	16	8.0
BIPHENYL	ND	16	8.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	183	357.6	51.1	40-130
2-FLUOROBIPHENYL	189	357.6	52.8	45-130
TERPHENYL-D14	281	357.6	78.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-706-SA5C-SB-4.0-5.0           Date Analyzed: 06/04/12 15:47
Lab Samp ID: E229-02                           Dilution Factor: 1
Lab File ID: RFL042                            Matrix          : SOIL
Ext Btch ID: SVF005S                           % Moisture     : 9.6
Calib. Ref.: REL181                            Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	112	368.7	30.4*	40-130
2-FLUOROBIPHENYL	103	368.7	28.0*	45-130
TERPHENYL-D14	237	368.7	64.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-706-SA5C-SB-9.0-10.0           Date Analyzed: 06/05/12 18:10
Lab Samp ID: E229-04                             Dilution Factor: 2
Lab File ID: RFL075                             Matrix          : SOIL
Ext Btch ID: SVF005S                            % Moisture     : 9.2
Calib. Ref.: REL181                             Instrument ID  : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	ND	22	5.5
BENZO (A) ANTHRACENE	ND	22	5.5
BENZO (A) PYRENE	ND	22	5.5
BENZO (B) FLUORANTHENE	ND	22	5.5
BENZO (K) FLUORANTHENE	ND	22	5.5
BENZO (G, H, I) PERYLENE	ND	22	5.5
CHRYSENE	ND	22	5.5
DIBENZO (A, H) ANTHRACENE	ND	22	5.5
FLUORANTHENE	ND	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	ND	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	ND	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	ND	11	5.5
BIPHENYL	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	137	367.1	37.3*	40-130
2-FLUOROBIPHENYL	135	367.1	36.7*	45-130
TERPHENYL-D14	178	367.1	48.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-723-SA5C-SB-0.0-0.5            Date Analyzed: 06/05/12 18:37
Lab Samp ID: E229-06                            Dilution Factor: 2
Lab File ID: RFL076                             Matrix          : SOIL
Ext Btch ID: SVF005S                            % Moisture     : 5.4
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.3
ACENAPHTHYLENE	ND	21	5.3
ANTHRACENE	ND	21	5.3
BENZO (A) ANTHRACENE	6.0J	21	5.3
BENZO (A) PYRENE	6.4J	21	5.3
BENZO (B) FLUORANTHENE	16J	21	5.3
BENZO (K) FLUORANTHENE	17J	21	5.3
BENZO (G, H, I) PERYLENE	ND	21	5.3
CHRYSENE	10J	21	5.3
DIBENZO (A, H) ANTHRACENE	ND	21	5.3
FLUORANTHENE	11J	21	5.3
FLUORENE	ND	21	5.3
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.3
NAPHTHALENE	ND	21	5.3
PHENANTHRENE	ND	21	5.3
2-METHYLNAPHTHALENE	ND	21	5.3
1-METHYLNAPHTHALENE	ND	21	5.3
N-NITROSODIMETHYLAMINE	ND	21	5.3
PYRENE	9.4J	21	5.3
AZOBENZENE	ND	11	5.3
BENZO (E) PYRENE	7.0J	11	5.3
BIPHENYL	ND	11	5.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	137	352.3	38.9*	40-130
2-FLUOROBIPHENYL	134	352.3	37.9*	45-130
TERPHENYL-D14	181	352.3	51.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-723-SA5C-SB-4.0-5.0           Date Analyzed: 06/04/12 16:13
Lab Samp ID: E229-07                           Dilution Factor: 1
Lab File ID: RFL043                             Matrix          : SOIL
Ext Btch ID: SVF005S                           % Moisture     : 11.4
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	203	376.2	53.9	40-130
2-FLUOROBIPHENYL	170	376.2	45.3	45-130
TERPHENYL-D14	318	376.2	84.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.    : 12E229                             Date Extracted: 06/04/12 11:15
Sample ID:   SL-723-SA5C-SB-9.0-10.0            Date Analyzed: 06/04/12 16:39
Lab Samp ID: E229-09                             Dilution Factor: 1
Lab File ID: RFL044                               Matrix          : SOIL
Ext Btch ID: SVF005S                             % Moisture      : 7.5
Calib. Ref.: REL181                              Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	128	360.3	35.5*	40-130
2-FLUOROBIPHENYL	114	360.3	31.6*	45-130
TERPHENYL-D14	176	360.3	48.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-724-SA5C-SB-0.0-0.5           Date Analyzed: 06/04/12 17:05
Lab Samp ID: E229-11                           Dilution Factor: 1
Lab File ID: RFL045                             Matrix          : SOIL
Ext Btch ID: SVF005S                            % Moisture     : 13.2
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	164	384.0	42.8	40-130
2-FLUOROBIPHENYL	125	384.0	32.6*	45-130
TERPHENYL-D14	310	384.0	80.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-724-SA5C-SB-4.0-5.0           Date Analyzed: 06/04/12 17:31
Lab Samp ID: E229-12                           Dilution Factor: 1
Lab File ID: RFL046                             Matrix          : SOIL
Ext Btch ID: SVF005S                            % Moisture     : 13.1
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	197	383.5	51.4	40-130
2-FLUOROBIPHENYL	173	383.5	45.1	45-130
TERPHENYL-D14	342	383.5	89.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID    : SL-724-SA5C-SB-9.0-10.0         Date Analyzed: 06/04/12 17:57
Lab Samp ID  : E229-14                           Dilution Factor: 1
Lab File ID  : RFL047                            Matrix          : SOIL
Ext Btch ID  : SVF005S                          % Moisture     : 12.2
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	5.5J	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	110	379.6	29.1*	40-130
2-FLUOROBIPHENYL	111	379.6	29.1*	45-130
TERPHENYL-D14	187	379.6	49.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-750-SA5C-SB-0.0-0.5            Date Analyzed: 06/04/12 18:23
Lab Samp ID: E229-16                            Dilution Factor: 1
Lab File ID: RFL048                             Matrix          : SOIL
Ext Btch ID: SVF005S                            % Moisture     : 9.8
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	162	369.5	43.8	40-130
2-FLUOROBIPHENYL	149	369.5	40.4*	45-130
TERPHENYL-D14	292	369.5	79.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-750-SA5C-SB-5.5-6.5           Date Analyzed: 06/04/12 18:50
Lab Samp ID: E229-17                           Dilution Factor: 1
Lab File ID: RFL049                             Matrix          : SOIL
Ext Btch ID: SVF005S                            % Moisture     : 9.2
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	201	367.1	54.8	40-130
2-FLUOROBIPHENYL	196	367.1	53.5	45-130
TERPHENYL-D14	307	367.1	83.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-554-SA5C-SB-0.0-0.5            Date Analyzed: 06/04/12 19:16
Lab Samp ID: E229-19                             Dilution Factor: 1
Lab File ID: RFL050                             Matrix          : SOIL
Ext Btch ID: SVF005S                            % Moisture     : 9.7
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	149	369.1	40.3	40-130
2-FLUOROBIPHENYL	145	369.1	39.2*	45-130
TERPHENYL-D14	283	369.1	76.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-555-SA5C-SB-0.0-0.5            Date Analyzed: 06/05/12 19:04
Lab Samp ID: E229-20                            Dilution Factor: 3
Lab File ID: RFL077                             Matrix          : SOIL
Ext Btch ID: SVF005S                            % Moisture     : 11.7
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	34	8.5
ACENAPHTHYLENE	ND	34	8.5
ANTHRACENE	ND	34	8.5
BENZO (A) ANTHRACENE	13J	34	8.5
BENZO (A) PYRENE	ND	34	8.5
BENZO (B) FLUORANTHENE	ND	34	8.5
BENZO (K) FLUORANTHENE	ND	34	8.5
BENZO (G, H, I) PERYLENE	ND	34	8.5
CHRYSENE	ND	34	8.5
DIBENZO (A, H) ANTHRACENE	ND	34	8.5
FLUORANTHENE	ND	34	8.5
FLUORENE	ND	34	8.5
INDENO (1, 2, 3-CD) PYRENE	ND	34	8.5
NAPHTHALENE	ND	34	8.5
PHENANTHRENE	ND	34	8.5
2-METHYLNAPHTHALENE	ND	34	8.5
1-METHYLNAPHTHALENE	ND	34	8.5
N-NITROSODIMETHYLAMINE	ND	34	8.5
PYRENE	ND	34	8.5
AZOBENZENE	ND	17	8.5
BENZO (E) PYRENE	13J	17	8.5
BIPHENYL	ND	17	8.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	216	377.5	57.2	40-130
2-FLUOROBIPHENYL	205	377.5	54.4	45-130
TERPHENYL-D14	292	377.5	77.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-555-SA5C-SB-2.5-3.5            Date Analyzed: 06/04/12 19:42
Lab Samp ID: E229-21                           Dilution Factor: 1
Lab File ID: RFL051                            Matrix          : SOIL
Ext Btch ID: SVF005S                           % Moisture     : 12.0
Calib. Ref.: REL181                            Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	227	378.8	60.0	40-130
2-FLUOROBIPHENYL	212	378.8	56.1	45-130
TERPHENYL-D14	312	378.8	82.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID:   SL-620-SA5C-SB-0.0-0.5           Date Analyzed: 06/05/12 19:30
Lab Samp ID: E229-23                           Dilution Factor: 3
Lab File ID: RFL078                             Matrix          : SOIL
Ext Btch ID: SVF005S                            % Moisture     : 7.1
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	32	8.1
ACENAPHTHYLENE	ND	32	8.1
ANTHRACENE	ND	32	8.1
BENZO (A) ANTHRACENE	ND	32	8.1
BENZO (A) PYRENE	ND	32	8.1
BENZO (B) FLUORANTHENE	ND	32	8.1
BENZO (K) FLUORANTHENE	ND	32	8.1
BENZO (G, H, I) PERYLENE	ND	32	8.1
CHRYSENE	ND	32	8.1
DIBENZO (A, H) ANTHRACENE	ND	32	8.1
FLUORANTHENE	ND	32	8.1
FLUORENE	ND	32	8.1
INDENO (1, 2, 3-CD) PYRENE	ND	32	8.1
NAPHTHALENE	ND	32	8.1
PHENANTHRENE	ND	32	8.1
2-METHYLNAPHTHALENE	ND	32	8.1
1-METHYLNAPHTHALENE	ND	32	8.1
N-NITROSODIMETHYLAMINE	ND	32	8.1
PYRENE	ND	32	8.1
AZOBENZENE	ND	16	8.1
BENZO (E) PYRENE	ND	16	8.1
BIPHENYL	ND	16	8.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	187	358.8	52.1	40-130
2-FLUOROBIPHENYL	181	358.8	50.3	45-130
TERPHENYL-D14	246	358.8	68.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 11:15
Sample ID    : MBLK1S                            Date Analyzed: 06/04/12 14:37
Lab Samp ID  : SVF005SB                         Dilution Factor: 1
Lab File ID  : RFL039                           Matrix          : SOIL
Ext Btch ID  : SVF005S                          % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	225	333.3	67.6	40-130
2-FLUOROBIPHENYL	217	333.3	65.1	45-130
TERPHENYL-D14	265	333.3	79.4	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E229  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF005SB SVF005SL SVF005SC  
LAB FILE ID: RFL039 RFL037 RFL038  
DATE EXTRACTED: 06/04/1211:15 06/04/1211:15 06/04/1211:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/04/1214:37 06/04/1213:39 06/04/1214:01 DATE RECEIVED: 06/04/12  
PREP. BATCH: SVF005S SVF005S SVF005S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	274	82	333	273	82	0	10-130	50
Acenaphthylene	ND	333	279	84	333	275	82	2	20-130	50
Anthracene	ND	333	263	79	333	279	84	6	20-130	50
Benzo (a) anthracene	ND	333	289	87	333	301	90	4	30-130	50
Benzo (a) pyrene	ND	333	313	94	333	332	100	6	30-130	50
Benzo (b) fluoranthene	ND	333	316	95	333	330	99	4	40-130	50
Benzo (k) fluoranthene	ND	333	324	97	333	337	101	4	30-140	50
Benzo (g, h, i) perylene	ND	333	307	92	333	315	94	3	30-140	50
Chrysene	ND	333	296	89	333	309	93	4	30-140	50
Dibenzo (a, h) anthracene	ND	333	316	95	333	334	100	5	40-140	50
Fluoranthene	ND	333	300	90	333	320	96	7	30-130	50
Fluorene	ND	333	284	85	333	274	82	4	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	318	95	333	335	101	5	20-160	50
Naphthalene	ND	333	265	80	333	262	78	1	10-130	50
Phenanthrene	ND	333	276	83	333	288	86	4	20-130	50
2-Methylnaphthalene	ND	333	255	77	333	258	77	1	30-150	50
1-Methylnaphthalene	ND	333	270	81	333	272	82	1	30-150	50
N-Nitrosodimethylamine	ND	333	289	87	333	286	86	1	30-150	50
Pyrene	ND	333	301	90	333	318	96	6	20-150	50
Azobenzene	ND	333	245	74	333	253	76	3	30-150	50
Benzo (e) pyrene	ND	333	304	91	333	295	88	3	30-150	50
Biphenyl	ND	333	256	77	333	230	69	11	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	244	73	333	220	66	40-130
2-Fluorobiphenyl	333	218	65	333	201	60	45-130
Terphenyl-d14	333	275	83	333	270	81	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E229  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 12.0  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-555-SA5C-SB-2.5-3.5  
LAB SAMP ID: E229-21 E229-21M E229-21S  
LAB FILE ID: RFL051 RFL040 RFL041  
DATE EXTRACTED: 06/04/1211:15 06/04/1211:15 06/04/1211:15 DATE COLLECTED: 05/29/12  
DATE ANALYZED: 06/04/1219:42 06/04/1214:56 06/04/1215:22 DATE RECEIVED: 05/29/12  
PREP. BATCH: SVF005S SVF005S SVF005S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	379	308	81	379	284	75	8	10-130	50
Acenaphthylene	ND	379	306	81	379	288	76	6	20-130	50
Anthracene	ND	379	311	82	379	297	79	4	20-130	50
Benzo (a) anthracene	ND	379	356	94	379	326	86	9	30-130	50
Benzo (a) pyrene	ND	379	358	94	379	334	88	7	30-130	50
Benzo (b) fluoranthene	ND	379	384	101	379	368	97	4	30-130	50
Benzo (k) fluoranthene	ND	379	393	104	379	365	96	7	30-130	50
Benzo (g, h, i) perylene	ND	379	355	94	379	333	88	6	30-140	50
Chrysene	ND	379	367	97	379	339	90	8	20-130	50
Dibenzo (a, h) anthracene	ND	379	376	99	379	359	95	5	30-130	50
Fluoranthene	ND	379	370	98	379	343	91	7	30-150	50
Fluorene	ND	379	325	86	379	307	81	6	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	379	379	100	379	357	94	6	20-160	50
Naphthalene	ND	379	237	62	379	220	58	7	10-130	50
Phenanthrene	ND	379	336	89	379	316	84	6	20-130	50
2-Methylnaphthalene	ND	379	268	71	379	250	66	7	30-150	50
1-Methylnaphthalene	ND	379	284	75	379	268	71	6	30-150	50
N-Nitrosodimethylamine	ND	379	319	84	379	300	79	6	20-150	50
Pyrene	ND	379	369	98	379	342	90	8	10-160	50
Azobenzene	ND	379	295	78	379	279	74	5	30-150	50
Benzo (e) pyrene	ND	379	332	88	379	312	82	6	30-150	50
Biphenyl	ND	379	242	64	379	230	61	5	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	379	250	66	379	236	62	40-130
2-Fluorobiphenyl	379	214	57	379	203	53	45-130
Terphenyl-d14	379	304	80	379	280	74	45-135

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/02/12 19:04
Sample ID:   SL-706-SA5C-SB-5.0                 Date Analyzed: 06/02/12 19:04
Lab Samp ID: E229-03                             Dilution Factor: 0.95
Lab File ID: EF01047A                           Matrix          : SOIL
Ext Btch ID: GME022S                             % Moisture     : 10.5
Calib. Ref.: EF01038A                           Instrument ID  : GCT039
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.53
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.81	2.123	85.4 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/02/12 19:47
Sample ID:   SL-706-SA5C-SB-10.0               Date Analyzed: 06/02/12 19:47
Lab Samp ID: E229-05                           Dilution Factor: 0.83
Lab File ID: EF01048A                          Matrix          : SOIL
Ext Btch ID: GME022S                            % Moisture     : 10.4
Calib. Ref.: EF01038A                          Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.93	0.46
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.42	1.853	76.9 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/02/12 21:57
Sample ID:   SL-723-SA5C-SB-5.0                 Date Analyzed: 06/02/12 21:57
Lab Samp ID: E229-08                             Dilution Factor: 0.80
Lab File ID: EF01051A                           Matrix          : SOIL
Ext Btch ID: GME022S                             % Moisture     : 12.1
Calib. Ref.: EF01049A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.91	0.46
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.41	1.820	77.6 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/02/12 22:40
Sample ID:   SL-723-SA5C-SB-10.0               Date Analyzed: 06/02/12 22:40
Lab Samp ID: E229-10                           Dilution Factor: 0.89
Lab File ID: EF01052A                           Matrix          : SOIL
Ext Btch ID: GME022S                             % Moisture     : 6.4
Calib. Ref.: EF01049A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.95	0.48
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.55	1.902	81.5 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/02/12 23:23
Sample ID:   SL-724-SA5C-SB-5.0                 Date Analyzed: 06/02/12 23:23
Lab Samp ID: E229-13                             Dilution Factor: 0.82
Lab File ID: EF01053A                            Matrix          : SOIL
Ext Btch ID: GME022S                             % Moisture     : 13.9
Calib. Ref.: EF01049A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.95	0.48
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.45	1.905	76.1 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/03/12 00:06
Sample ID:   SL-724-SA5C-SB-10.0                Date Analyzed: 06/03/12 00:06
Lab Samp ID: E229-15                             Dilution Factor: 0.92
Lab File ID: EF01054A                           Matrix          : SOIL
Ext Btch ID: GME022S                             % Moisture     : 10.5
Calib. Ref.: EF01049A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.59	2.056	77.2 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/03/12 00:49
Sample ID:   SL-750-SA5C-SB-6.5                 Date Analyzed: 06/03/12 00:49
Lab Samp ID: E229-18                            Dilution Factor: 0.96
Lab File ID: EF01055A                           Matrix          : SOIL
Ext Btch ID: GME022S                            % Moisture     : 17.9
Calib. Ref.: EF01049A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.58
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.85	2.339	79.2 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/03/12 01:32
Sample ID   : SL-555-SA5C-SB-3.5               Date Analyzed: 06/03/12 01:32
Lab Samp ID : E229-22                           Dilution Factor: 0.88
Lab File ID : EF01056A                          Matrix          : SOIL
Ext Btch ID : GME022S                            % Moisture     : 12.2
Calib. Ref. : EF01049A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.52	2.005	75.7 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.  : 12E229                           Date Extracted: 06/01/12 12:12
Sample ID  : MBLK1S                           Date Analyzed: 06/01/12 12:12
Lab Samp ID: GME022SB                         Dilution Factor: 1
Lab File ID: EF01004A                        Matrix          : SOIL
Ext Btch ID: GME022S                          % Moisture     : NA
Calib. Ref.: EF01002A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.86	2.000	93.2 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E229  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GME022SB GME022SL GME022SC  
LAB FILE ID: EF01004A EF01006A EF01007A  
DATE EXTRACTED: 06/01/1212:12 06/01/1213:37 06/01/1214:21 DATE COLLECTED: NA  
DATE ANALYZED: 06/01/1212:12 06/01/1213:37 06/01/1214:21 DATE RECEIVED: 06/01/12  
PREP. BATCH: GME022S GME022S GME022S  
CALIB. REF: EF01002A EF01002A EF01002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	20.8	83	25.0	23.7	95	13	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.25	113	2.00	2.40	120	60-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.    : 12E229                             Date Extracted: 06/02/12 01:08
Sample ID:   TB-052912                            Date Analyzed: 06/02/12 01:08
Lab Samp ID: E229-24                               Dilution Factor: 1
Lab File ID: EF01022A                             Matrix          : WATER
Ext Btch ID: VG39F01                               % Moisture     : NA
Calib. Ref.: EF01013A                             Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	27J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	34.4	40.00	85.9 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.   : 12E229                           Date Extracted: 06/01/12 22:58
Sample ID   : MBLK1W                           Date Analyzed: 06/01/12 22:58
Lab Samp ID: VG39F01B                         Dilution Factor: 1
Lab File ID: EF01019A                         Matrix          : WATER
Ext Btch ID: VG39F01                          % Moisture     : NA
Calib. Ref.: EF01013A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	35.0	40.00	87.5 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E229  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F01B VG39F01L VG39F01C  
LAB FILE ID: EF01019A EF01018A EF01026A  
DATE EXTRACTED: 06/01/1222:58 06/01/1222:15 06/02/1204:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/01/1222:58 06/01/1222:15 06/02/1204:00 DATE RECEIVED: 06/01/12  
PREP. BATCH: VG39F01 VG39F01 VG39F01  
CALIB. REF: EF01013A EF01013A EF01025A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	397	79	500	456	91	14	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	37.5	94	40.0	43.1	108	60-130

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 05/30/12 10:00
Sample ID:   SL-554-SA5C-SB-0.0-0.5            Date Analyzed: 05/30/12 14:34
Lab Samp ID: E229-19W                           Dilution Factor: 1
Lab File ID: BE30013A                           Matrix          : SOIL
Ext Btch ID: MEE005S                             % Moisture     : 9.7
Calib. Ref.: BE30003A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	550	280
ISOPROPANOL	ND	550	280
METHANOL	ND	550	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.    : 12E229                             Date Extracted: 05/30/12 10:00
Sample ID:   SL-555-SA5C-SB-0.0-0.5              Date Analyzed: 05/30/12 13:54
Lab Samp ID: E229-20                              Dilution Factor: 1
Lab File ID: BE30011A                             Matrix          : SOIL
Ext Btch ID: MEE005S                              % Moisture     : 11.7
Calib. Ref.: BE30003A                             Instrument ID  : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	570	280
ISOPROPANOL	ND	570	280
METHANOL	ND	570	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 05/30/12 10:00
Sample ID:   SL-555-SA5C-SB-2.5-3.5            Date Analyzed: 05/30/12 14:17
Lab Samp ID: E229-21                            Dilution Factor: 1
Lab File ID: BE30012A                          Matrix          : SOIL
Ext Btch ID: MEE005S                            % Moisture     : 12.0
Calib. Ref.: BE30003A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	570	280
ISOPROPANOL	ND	570	280
METHANOL	ND	570	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.    : 12E229                             Date Extracted: 05/30/12 10:00
Sample ID    : MBLK1S                             Date Analyzed: 05/30/12 11:41
Lab Samp ID  : MEE005SB                           Dilution Factor: 1
Lab File ID  : BE30004A                           Matrix          : SOIL
Ext Btch ID  : MEE005S                             % Moisture      : NA
Calib. Ref.  : BE30003A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E229  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEE005SB MEE005SX MEE005SC  
LAB FILE ID: BE30004A BE30014A BE30006A  
DATE EXTRACTED: 05/30/1210:00 05/30/1210:00 05/30/1210:00 DATE COLLECTED: NA  
DATE ANALYZED: 05/30/1211:41 05/30/1214:49 05/30/1212:34 DATE RECEIVED: 05/30/12  
PREP. BATCH: MEE005S MEE005S MEE005S  
CALIB. REF: BE30003A BE30003A BE30003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	12000	120	10000	11700	117	3	50-150	50
Isopropanol	ND	10000	11000	110	10000	11100	111	1	50-150	50
Methanol	ND	10000	11300	113	10000	11400	114	1	50-150	50

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 05/30/12 10:00
Sample ID:   SL-554-SA5C-SB-0.0-0.5            Date Analyzed: 05/31/12 11:44
Lab Samp ID: E229-19                            Dilution Factor: 1
Lab File ID: TE31009A                          Matrix          : SOIL
Ext Btch ID: PEE004S                            % Moisture     : 9.7
Calib. Ref.: TE31004A                          Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.3
ETHYLENE GLYCOL	ND	11	5.5
PROPYLENE GLYCOL	ND	11	5.5

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 05/30/12 10:00
Sample ID:   SL-555-SA5C-SB-0.0-0.5            Date Analyzed: 05/31/12 12:00
Lab Samp ID: E229-20                            Dilution Factor: 1
Lab File ID: TE31010A                          Matrix          : SOIL
Ext Btch ID: PEE004S                            % Moisture     : 11.7
Calib. Ref.: TE31004A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.5
ETHYLENE GLYCOL	ND	11	5.7
PROPYLENE GLYCOL	ND	11	5.7

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/29/12
Project     : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.   : 12E229                           Date Extracted: 05/30/12 10:00
Sample ID   : SL-555-SA5C-SB-2.5-3.5          Date Analyzed: 05/31/12 12:15
Lab Samp ID : E229-21                          Dilution Factor: 1
Lab File ID : TE31011A                        Matrix          : SOIL
Ext Btch ID : PEE004S                          % Moisture     : 12.0
Calib. Ref. : TE31004A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.5
ETHYLENE GLYCOL	ND	11	5.7
PROPYLENE GLYCOL	ND	11	5.7

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.   : 12E229                           Date Extracted: 05/30/12 10:00
Sample ID   : MBLK1S                           Date Analyzed: 05/31/12 11:27
Lab Samp ID: PEE004SB                         Dilution Factor: 1
Lab File ID: TE31008A                        Matrix          : SOIL
Ext Btch ID: PEE004S                          % Moisture     : NA
Calib. Ref.: TE31004A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E229  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEE004SB PEE004SL PEE004SC  
LAB FILE ID: TE31008A TE31005A TE31006A  
DATE EXTRACTED: 05/30/1210:00 05/30/1210:00 05/30/1210:00 DATE COLLECTED: NA  
DATE ANALYZED: 05/31/1211:27 05/31/1210:30 05/31/1210:48 DATE RECEIVED: 05/30/12  
PREP. BATCH: PEE004S PEE004S PEE004S  
CALIB. REF: TE31004A TE31004A TE31004A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	55.7	111	50.0	58.4	117	5	50-150	50
Ethylene Glycol	ND	50.0	53.8	108	50.0	54.4	109	1	50-150	50
Propylene Glycol	ND	25.0	28.4	114	25.0	27.6	110	3	50-150	50

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID    : SL-706-SA5C-SB-0.0-0.5          Date Analyzed: 06/04/12 22:40
Lab Samp ID  : E229-01T                         Dilution Factor: 5
Lab File ID  : LF04043A                        Matrix          : SOIL
Ext Btch ID  : DSF001S                          % Moisture     : 6.8
Calib. Ref. : LF04034A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	27	13
EFH(C12-C14)	ND	27	13
EFH(C15-C20)	ND	27	13
EFH(C21-C30)	62	27	13
EFH(C30-C40)	120	54	27
TOTAL EFH(C8-C40)	180	27	13

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	80.4	107.3	74.9	50-150
HEXACOSANE	24.3	26.82	90.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID:   SL-706-SA5C-SB-4.0-5.0           Date Analyzed: 06/04/12 21:32
Lab Samp ID: E229-02                           Dilution Factor: 1
Lab File ID: LF04039A                          Matrix          : SOIL
Ext Btch ID: DSF001S                            % Moisture     : 9.6
Calib. Ref.: LF04034A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.3	110.6	73.5	50-150
HEXACOSANE	25.6	27.65	92.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID    : SL-706-SA5C-SB-9.0-10.0         Date Analyzed: 06/04/12 22:57
Lab Samp ID  : E229-04                          Dilution Factor: 1
Lab File ID  : LF04044A                         Matrix          : SOIL
Ext Btch ID  : DSF001S                          % Moisture     : 9.2
Calib. Ref. : LF04034A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	23	5.5	2.8
EFH(C30-C40)	61	11	5.5
TOTAL EFH(C8-C40)	84	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.0	110.1	69.9	50-150
HEXACOSANE	23.6	27.53	85.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID    : SL-723-SA5C-SB-0.0-0.5          Date Analyzed: 06/04/12 23:14
Lab Samp ID  : E229-06                           Dilution Factor: 1
Lab File ID  : LF04045A                          Matrix          : SOIL
Ext Btch ID  : DSF001S                            % Moisture     : 5.4
Calib. Ref. : LF04034A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.6
EFH(C12-C14)	ND	5.3	2.6
EFH(C15-C20)	ND	5.3	2.6
EFH(C21-C30)	31	5.3	2.6
EFH(C30-C40)	46	11	5.3
TOTAL EFH(C8-C40)	77	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.7	105.7	72.6	50-150
HEXACOSANE	23.3	26.43	88.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID:   SL-723-SA5C-SB-4.0-5.0           Date Analyzed: 06/04/12 21:49
Lab Samp ID: E229-07                           Dilution Factor: 1
Lab File ID: LF04040A                          Matrix          : SOIL
Ext Btch ID: DSF001S                           % Moisture     : 11.4
Calib. Ref.: LF04034A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.7	112.9	70.6	50-150
HEXACOSANE	22.8	28.22	80.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID    : SL-723-SA5C-SB-9.0-10.0         Date Analyzed: 06/04/12 22:06
Lab Samp ID  : E229-09                           Dilution Factor: 1
Lab File ID  : LF04041A                         Matrix          : SOIL
Ext Btch ID  : DSF001S                          % Moisture     : 7.5
Calib. Ref.  : LF04034A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.3	108.1	72.4	50-150
HEXACOSANE	21.6	27.03	80.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID    : SL-724-SA5C-SB-0.0-0.5          Date Analyzed: 06/04/12 22:23
Lab Samp ID  : E229-11                          Dilution Factor: 1
Lab File ID  : LF04042A                         Matrix          : SOIL
Ext Btch ID  : DSF001S                          % Moisture     : 13.2
Calib. Ref.  : LF04034A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	3.2J	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	3.2J	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	82.9	115.2	72.0	50-150
HEXACOSANE	23.8	28.80	82.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID    : SL-724-SA5C-SB-4.0-5.0          Date Analyzed: 06/05/12 11:38
Lab Samp ID  : E229-12                           Dilution Factor: 1
Lab File ID  : LF05004A                          Matrix          : SOIL
Ext Btch ID  : DSF001S                           % Moisture     : 13.1
Calib. Ref. : LF05002A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	83.4	115.1	72.5	50-150
HEXACOSANE	22.1	28.77	76.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.    : 12E229                             Date Extracted: 06/01/12 09:53
Sample ID    : SL-724-SA5C-SB-9.0-10.0           Date Analyzed: 06/05/12 13:03
Lab Samp ID  : E229-14                             Dilution Factor: 1
Lab File ID  : LF05009A                           Matrix          : SOIL
Ext Btch ID  : DSF001S                             % Moisture      : 12.2
Calib. Ref.  : LF05002A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	18	5.7	2.8
EFH(C30-C40)	28	11	5.7
TOTAL EFH(C8-C40)	46	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.7	113.9	71.7	50-150
HEXACOSANE	24.4	28.47	85.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID    : SL-750-SA5C-SB-0.0-0.5          Date Analyzed: 06/05/12 12:12
Lab Samp ID  : E229-16                          Dilution Factor: 1
Lab File ID  : LF05006A                        Matrix          : SOIL
Ext Btch ID  : DSF001S                         % Moisture     : 9.8
Calib. Ref. : LF05002A                        Instrument ID  : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	84.6	110.9	76.3	50-150
HEXACOSANE	23.4	27.72	84.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.    : 12E229                             Date Extracted: 06/01/12 09:53
Sample ID    : SL-750-SA5C-SB-5.5-6.5           Date Analyzed: 06/05/12 12:29
Lab Samp ID  : E229-17                           Dilution Factor: 1
Lab File ID  : LF05007A                          Matrix          : SOIL
Ext Btch ID  : DSF001S                            % Moisture     : 9.2
Calib. Ref.  : LF05002A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	84.6	110.1	76.8	50-150
HEXACOSANE	22.0	27.53	80.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID    : SL-554-SA5C-SB-0.0-0.5          Date Analyzed: 06/05/12 12:46
Lab Samp ID  : E229-19                           Dilution Factor: 1
Lab File ID  : LF05008A                          Matrix          : SOIL
Ext Btch ID  : DSF001S                            % Moisture     : 9.7
Calib. Ref.  : LF05002A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	9.2	5.5	2.8
EFH(C30-C40)	13	11	5.5
TOTAL EFH(C8-C40)	22	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.9	110.7	68.5	50-150
HEXACOSANE	20.9	27.69	75.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID:   SL-555-SA5C-SB-0.0-0.5            Date Analyzed: 06/05/12 13:20
Lab Samp ID: E229-20T                           Dilution Factor: 5
Lab File ID: LF05010A                           Matrix          : SOIL
Ext Btch ID: DSF001S                             % Moisture     : 11.7
Calib. Ref.: LF05002A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	28	14
EFH(C12-C14)	ND	28	14
EFH(C15-C20)	ND	28	14
EFH(C21-C30)	82	28	14
EFH(C30-C40)	280	57	28
TOTAL EFH(C8-C40)	360	28	14

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.8	113.3	72.2	50-150
HEXACOSANE	28.4	28.31	100	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID:   SL-555-SA5C-SB-2.5-3.5           Date Analyzed: 06/05/12 11:55
Lab Samp ID: E229-21                           Dilution Factor: 1
Lab File ID: LF05005A                          Matrix          : SOIL
Ext Btch ID: DSF001S                           % Moisture     : 12.0
Calib. Ref.: LF05002A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	85.8	113.6	75.5	50-150
HEXACOSANE	23.1	28.41	81.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/01/12 09:53
Sample ID    : SL-620-SA5C-SB-0.0-0.5          Date Analyzed: 06/05/12 13:37
Lab Samp ID  : E229-23                           Dilution Factor: 1
Lab File ID  : LF05011A                         Matrix          : SOIL
Ext Btch ID  : DSF001S                           % Moisture     : 7.1
Calib. Ref.  : LF05002A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	40	5.4	2.7
EFH(C30-C40)	110	11	5.4
TOTAL EFH(C8-C40)	150	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.7	107.6	70.4	50-150
HEXACOSANE	24.6	26.91	91.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/01/12
Batch No.    : 12E229                             Date Extracted: 06/01/12 09:53
Sample ID    : MBLK1S                             Date Analyzed: 06/04/12 20:41
Lab Samp ID  : DSF001SB                           Dilution Factor: 1
Lab File ID  : LF04036A                           Matrix          : SOIL
Ext Btch ID  : DSF001S                             % Moisture      : NA
Calib. Ref.  : LF04034A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.1	100.0	79.1	50-150
HEXACOSANE	21.4	25.00	85.6	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E229  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF001SB DSF001SL DSF001SC  
LAB FILE ID: LF04036A LF04037A LF04038A  
DATE EXTRACTED: 06/01/1209:53 06/01/1209:53 06/01/1209:53 DATE COLLECTED: NA  
DATE ANALYZED: 06/04/1220:41 06/04/1220:58 06/04/1221:15 DATE RECEIVED: 06/01/12  
PREP. BATCH: DSF001S DSF001S DSF001S  
CALIB. REF: LF04034A LF04034A LF04034A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	428	86	500	421	84	2	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	78.2	78	100	80.2	80	50-150
Hexacosane	25.0	20.3	81	25.0	22.8	91	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E229  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 7.1  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-620-SA5C-SB-0.0-0.5  
LAB SAMP ID: E229-23 E229-23M E229-23S  
LAB FILE ID: LF05011A LF05012A LF05013A  
DATE EXTRACTED: 06/01/1209:53 06/01/1209:53 06/01/1209:53 DATE COLLECTED: 05/29/12  
DATE ANALYZED: 06/05/1213:37 06/05/1213:54 06/05/1214:11 DATE RECEIVED: 05/29/12  
PREP. BATCH: DSF001S DSF001S DSF001S  
CALIB. REF: LF05002A LF05002A LF05002A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	154	538	526	69	538	504	65	4	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	108	80.0	74	108	81.5	76	50-150
Hexacosane	26.9	21.8	81	26.9	22.9	85	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID    : SL-706-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 10:03
Lab Samp ID  : E229-01                          Dilution Factor: 1
Lab File ID  : SF05045A                         Matrix          : SOIL
Ext Btch ID  : CPF002S                          % Moisture     : 6.8
Calib. Ref.  : SF05042A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	8.450   (9.229)	14.30	59.1   (64.5)	45-120
TETRACHLORO-M-XYLENE	(11.28)   10.51	14.30	(78.8)   73.5	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID    : SL-706-SA5C-SB-4.0-5.0          Date Analyzed: 06/06/12 10:37
Lab Samp ID  : E229-02                           Dilution Factor: 1
Lab File ID  : SF05046A                         Matrix          : SOIL
Ext Btch ID  : CPF002S                          % Moisture     : 9.6
Calib. Ref.  : SF05042A                         Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(11.55)   11.11	14.75	(78.3)   75.3	45-120
TETRACHLORO-M-XYLENE	12.38   (12.64)	14.75	84.0   (85.7)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID    : SL-706-SA5C-SB-9.0-10.0         Date Analyzed: 06/06/12 11:11
Lab Samp ID  : E229-04                          Dilution Factor: 1
Lab File ID  : SF05047A                         Matrix          : SOIL
Ext Btch ID  : CPF002S                          % Moisture     : 9.2
Calib. Ref.  : SF05042A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	9.539   (10.23)	14.68	65.0   (69.7)	45-120
TETRACHLORO-M-XYLENE	(11.99)   11.11	14.68	(81.7)   75.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID    : SL-723-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 11:45
Lab Samp ID  : E229-06                           Dilution Factor: 1
Lab File ID  : SF05048A                          Matrix          : SOIL
Ext Btch ID  : CPF002S                            % Moisture     : 5.4
Calib. Ref.  : SF05042A                          Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	9.269   (9.783)	14.09	65.8   (69.4)	45-120
TETRACHLORO-M-XYLENE	(11.83)   10.83	14.09	(84.0)   76.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID:   SL-723-SA5C-SB-4.0-5.0           Date Analyzed: 06/06/12 12:20
Lab Samp ID: E229-07                            Dilution Factor: 1
Lab File ID: SF05049A                          Matrix          : SOIL
Ext Btch ID: CPF002S                            % Moisture     : 11.4
Calib. Ref.: SF05042A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.03)   11.83	15.05	(80.0)   78.6	45-120
TETRACHLORO-M-XYLENE	(12.58)   12.20	15.05	(83.6)   81.1	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 05/29/12
Project    : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.  : 12E229                             Date Extracted: 06/04/12 16:13
Sample ID  : SL-723-SA5C-SB-9.0-10.0           Date Analyzed: 06/06/12 12:54
Lab Samp ID: E229-09                            Dilution Factor: 1
Lab File ID: SF05050A                          Matrix          : SOIL
Ext Btch ID: CPF002S                            % Moisture     : 7.5
Calib. Ref.: SF05042A                          Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(11.65)   11.51	14.41	(80.9)   79.9	45-120
TETRACHLORO-M-XYLENE	11.73   (11.83)	14.41	81.4   (82.1)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID    : SL-724-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 13:28
Lab Samp ID  : E229-11                           Dilution Factor: 1
Lab File ID  : SF05051A                         Matrix          : SOIL
Ext Btch ID  : CPF002S                           % Moisture     : 13.2
Calib. Ref.  : SF05042A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.00   (11.59)	15.36	71.6   (75.5)	45-120
TETRACHLORO-M-XYLENE	(11.90)   11.41	15.36	(77.5)   74.3	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID    : SL-724-SA5C-SB-4.0-5.0          Date Analyzed: 06/06/12 14:02
Lab Samp ID  : E229-12                          Dilution Factor: 1
Lab File ID  : SF05052A                         Matrix          : SOIL
Ext Btch ID  : CPF002S                          % Moisture     : 13.1
Calib. Ref.  : SF05042A                         Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.85   (12.92)	15.34	83.8   (84.2)	45-120
TETRACHLORO-M-XYLENE	12.95   (13.25)	15.34	84.4   (86.4)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.    : 12E229                             Date Extracted: 06/04/12 16:13
Sample ID    : SL-724-SA5C-SB-9.0-10.0           Date Analyzed: 06/06/12 14:37
Lab Samp ID  : E229-14                           Dilution Factor: 1
Lab File ID  : SF05053A                          Matrix          : SOIL
Ext Btch ID  : CPF002S                            % Moisture     : 12.2
Calib. Ref.  : SF05042A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	10.37   (11.26)	15.18	68.3   (74.2)	45-120
TETRACHLORO-M-XYLENE	(12.87)   12.86	15.18	(84.8)   84.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID    : SL-750-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 15:11
Lab Samp ID  : E229-16                          Dilution Factor: 1
Lab File ID  : SF05054A                         Matrix          : SOIL
Ext Btch ID  : CPF002S                          % Moisture     : 9.8
Calib. Ref.  : SF05042A                         Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	12.18   (12.35)	14.78	82.4   (83.5)	45-120
TETRACHLORO-M-XYLENE	(12.47)   11.94	14.78	(84.3)   80.8	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 05/29/12
Project     : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.   : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID   : SL-750-SA5C-SB-5.5-6.5          Date Analyzed: 06/06/12 15:45
Lab Samp ID : E229-17                           Dilution Factor: 1
Lab File ID : SF05055A                          Matrix          : SOIL
Ext Btch ID : CPF002S                            % Moisture     : 9.2
Calib. Ref. : SF05042A                          Instrument ID   : GCT008
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```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.36   (11.62)	14.68	77.4   (79.1)	45-120
TETRACHLORO-M-XYLENE	(11.81)   10.86	14.68	(80.4)   74.0	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID:   SL-554-SA5C-SB-0.0-0.5            Date Analyzed: 06/06/12 16:19
Lab Samp ID: E229-19                            Dilution Factor: 1
Lab File ID: SF05056A                          Matrix          : SOIL
Ext Btch ID: CPF002S                            % Moisture     : 9.7
Calib. Ref.: SF05042A                          Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.11   (11.53)	14.76	75.3   (78.1)	45-120
TETRACHLORO-M-XYLENE	(11.94)   10.89	14.76	(80.9)   73.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID    : SL-555-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 16:53
Lab Samp ID  : E229-20                           Dilution Factor: 1
Lab File ID  : SF05057A                          Matrix          : SOIL
Ext Btch ID  : CPF002S                            % Moisture     : 11.7
Calib. Ref.  : SF05042A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	8.997   (9.591)	15.10	59.6   (63.5)	45-120
TETRACHLORO-M-XYLENE	(11.97)   11.77	15.10	(79.3)   78.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID    : SL-555-SA5C-SB-2.5-3.5          Date Analyzed: 06/06/12 17:28
Lab Samp ID  : E229-21                           Dilution Factor: 1
Lab File ID  : SF05058A                          Matrix          : SOIL
Ext Btch ID  : CPF002S                            % Moisture     : 12.0
Calib. Ref.  : SF05042A                          Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.23)   11.55	15.15	(80.7)   76.3	45-120
TETRACHLORO-M-XYLENE	(12.62)   11.22	15.15	(83.3)   74.1	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E229                           Date Extracted: 06/04/12 16:13
Sample ID    : SL-620-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 18:02
Lab Samp ID  : E229-23                          Dilution Factor: 1
Lab File ID  : SF05059A                        Matrix          : SOIL
Ext Btch ID  : CPF002S                          % Moisture     : 7.1
Calib. Ref.  : SF05042A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	9.168   (9.799)	14.35	63.9   (68.3)	45-120
TETRACHLORO-M-XYLENE	(11.52)   10.54	14.35	(80.3)   73.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/04/12
Batch No.    : 12E229                             Date Extracted: 06/04/12 16:13
Sample ID    : MBLK1S                             Date Analyzed: 06/05/12 13:41
Lab Samp ID  : 60F002SB                           Dilution Factor: 1
Lab File ID  : SF05008A                           Matrix          : SOIL
Ext Btch ID  : CPF002S                             % Moisture      : NA
Calib. Ref.  : SF05006A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECAHCHLOROBIIPHENYL	11.55   (11.76)	13.33	86.7   (88.2)	45-120
TETRACHLORO-M-XYLENE	(11.50)   11.01	13.33	(86.3)   82.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E229  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F002SB 60F002SL 60F002SC  
LAB FILE ID: SF05008A SF05009A SF05010A  
DATE EXTRACTED: 06/04/1216:13 06/04/1216:13 06/04/1216:13 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1213:41 06/05/1214:15 06/05/1214:50 DATE RECEIVED: 06/04/12  
PREP. BATCH: CPF002S CPF002S CPF002S  
CALIB. REF: SF05006A SF05006A SF05006A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(150)   143	(90)   86	167	(153)   146	(92)   88	(2)   2	50-130	50
Aroclor 1260	(ND)   ND	167	159   (160)	95   (96)	167	(166)   163	(100)   98	(4)   2	60-150	50
Aroclor 5460	(ND)   ND	83.3	(91.4)   88.4	(110)   106	83.3	(90.3)   87.9	(108)   105	(1)   1	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	11.15   (11.60)	83.7   (87.0)	13.33	11.54   (11.86)	86.5   (89.0)	45-120
Tetrachloro-m-xylene	13.33	(11.17)   10.65	(83.8)   79.9	13.33	(11.06)   10.53	(82.9)   79.0	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E229  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 13.1  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-724-SA5C-SB-4.0-5.0  
LAB SAMP ID: E229-12 E229-12M E229-12S  
LAB FILE ID: SF05052A SF05021A SF05022A  
DATE EXTRACTED: 06/04/1216:13 06/04/1216:13 06/04/1216:13 DATE COLLECTED: 05/29/12  
DATE ANALYZED: 06/06/1214:02 06/05/1220:54 06/05/1221:29 DATE RECEIVED: 05/29/12  
PREP. BATCH: CPF002S CPF002S CPF002S  
CALIB. REF: SF05042A SF05006A SF05006A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	192	(155)   149	(81)   78	192	(177)   151	(92)   79	(13)   1	20-160	50
Aroclor 1260	(ND)   ND	192	(167)   167	(87)   87	192	172   (175)	90   (91)	3   (5)	20-160	50
Aroclor 5460	(ND)   ND	95.9	(99.0)   95.9	(103)   100	95.9	(102)   98.8	(106)   103	(3)   3	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	15.34	12.37   (12.89)	80.6   (84.0)	15.34	12.49   (13.23)	81.4   (86.2)	45-120
Tetrachloro-m-xylene	15.34	(11.97)   11.67	(78.0)   76.1	15.34	13.20   (13.40)	86.1   (87.4)	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.     : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID   : SL-706-SA5C-SB-0.0-0.5          Date Analyzed: 06/05/12 15:13
Lab Samp ID : E229-01                           Dilution Factor: 0.966
Lab File ID : 98F02028                         Matrix          : SOIL
Ext Btch ID : IMF004S                          % Moisture     : 6.8
Calib. Ref. : 98F02018                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11100	104	12.4
Antimony	0.430J	0.518	0.104
Arsenic	4.49	0.518	0.207
Barium	102	0.518	0.207
Beryllium	0.493J	0.518	0.0518
Boron	4.81J	5.18	2.59
Cadmium	0.239J	0.518	0.0518
Calcium	6280	20.7	10.4
Chromium	16.1	0.518	0.207
Cobalt	5.66	0.518	0.0518
Copper	10.9	0.518	0.207
Iron	17400	104	10.4
Lead	7.00	0.518	0.104
Magnesium	4180	10.4	5.18
Manganese	261	0.518	0.259
Molybdenum	0.660	0.518	0.0518
Nickel	10.6	0.518	0.207
Potassium	2250	104	31.1
Selenium	ND	0.518	0.207
Silver	ND	0.518	0.0518
Sodium	226	104	51.8
Strontium	33.2	0.518	0.259
Thallium	0.201J	0.415	0.0518
Tin	ND	10.4	5.18
Titanium	759	1.04	0.518
Vanadium	33.5	0.518	0.0518
Zinc	57.6	5.18	1.55
Lithium	15.9	2.07	1.04
Phosphorus	422	12.4	6.22
Zirconium	ND	5.18	2.59

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/29/12
Project    : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.    : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID  : SL-706-SA5C-SB-4.0-5.0          Date Analyzed: 06/05/12 15:32
Lab Samp ID: E229-02                          Dilution Factor: 0.943
Lab File ID: 98F02032                        Matrix          : SOIL
Ext Btch ID: IMF004S                         % Moisture     : 9.6
Calib. Ref.: 98F02030                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17400	104	12.5
Antimony	0.241J	0.522	0.104
Arsenic	4.52	0.522	0.209
Barium	135	0.522	0.209
Beryllium	0.761	0.522	0.0522
Boron	ND	5.22	2.61
Cadmium	0.120J	0.522	0.0522
Calcium	3080	20.9	10.4
Chromium	20.1	0.522	0.209
Cobalt	5.91	0.522	0.0522
Copper	6.98	0.522	0.209
Iron	21500	104	10.4
Lead	6.74	0.522	0.104
Magnesium	4830	10.4	5.22
Manganese	172	0.522	0.261
Molybdenum	0.660	0.522	0.0522
Nickel	9.17	0.522	0.209
Potassium	1750	104	31.3
Selenium	ND	0.522	0.209
Silver	ND	0.522	0.0522
Sodium	526	104	52.2
Strontium	31.6	0.522	0.261
Thallium	0.311J	0.417	0.0522
Tin	ND	10.4	5.22
Titanium	1040	1.04	0.522
Vanadium	40.2	0.522	0.0522
Zinc	40.6	5.22	1.56
Lithium	18.1	2.09	1.04
Phosphorus	85.3	12.5	6.26
Zirconium	ND	5.22	2.61

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/29/12
Project     : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.    : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID   : SL-706-SA5C-SB-9.0-10.0         Date Analyzed: 06/05/12 15:36
Lab Samp ID: E229-04                           Dilution Factor: 0.995
Lab File ID: 98F02033                          Matrix          : SOIL
Ext Btch ID: IMF004S                            % Moisture     : 9.2
Calib. Ref.: 98F02030                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14300	110	13.1
Antimony	0.206J	0.548	0.110
Arsenic	5.36	0.548	0.219
Barium	86.7	0.548	0.219
Beryllium	0.676	0.548	0.0548
Boron	ND	5.48	2.74
Cadmium	0.117J	0.548	0.0548
Calcium	2650	21.9	11.0
Chromium	16.3	0.548	0.219
Cobalt	4.58	0.548	0.0548
Copper	6.50	0.548	0.219
Iron	18700	110	11.0
Lead	4.80	0.548	0.110
Magnesium	4170	11.0	5.48
Manganese	136	0.548	0.274
Molybdenum	0.700	0.548	0.0548
Nickel	8.42	0.548	0.219
Potassium	1650	110	32.9
Selenium	ND	0.548	0.219
Silver	ND	0.548	0.0548
Sodium	375	110	54.8
Strontium	24.8	0.548	0.274
Thallium	0.228J	0.438	0.0548
Tin	ND	11.0	5.48
Titanium	958	1.10	0.548
Vanadium	34.6	0.548	0.0548
Zinc	40.5	5.48	1.64
Lithium	17.1	2.19	1.10
Phosphorus	135	13.1	6.57
Zirconium	ND	5.48	2.74

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/29/12
Project    : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.    : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID  : SL-723-SA5C-SB-0.0-0.5          Date Analyzed: 06/05/12 15:41
Lab Samp ID: E229-06                           Dilution Factor: 0.990
Lab File ID: 98F02034                          Matrix          : SOIL
Ext Btch ID: IMF004S                            % Moisture     : 5.4
Calib. Ref.: 98F02030                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10900	105	12.6
Antimony	0.402J	0.523	0.105
Arsenic	3.75	0.523	0.209
Barium	106	0.523	0.209
Beryllium	0.445J	0.523	0.0523
Boron	ND	5.23	2.62
Cadmium	0.197J	0.523	0.0523
Calcium	3930	20.9	10.5
Chromium	14.3	0.523	0.209
Cobalt	5.66	0.523	0.0523
Copper	10.1	0.523	0.209
Iron	17400	105	10.5
Lead	6.58	0.523	0.105
Magnesium	4140	10.5	5.23
Manganese	283	0.523	0.262
Molybdenum	0.558	0.523	0.0523
Nickel	9.26	0.523	0.209
Potassium	2840	105	31.4
Selenium	ND	0.523	0.209
Silver	ND	0.523	0.0523
Sodium	159	105	52.3
Strontium	21.0	0.523	0.262
Thallium	0.218J	0.419	0.0523
Tin	ND	10.5	5.23
Titanium	840	1.05	0.523
Vanadium	31.9	0.523	0.0523
Zinc	50.2	5.23	1.57
Lithium	14.1	2.09	1.05
Phosphorus	421	12.6	6.28
Zirconium	ND	5.23	2.62

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/29/12
Project     : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.    : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID:  SL-723-SA5C-SB-4.0-5.0           Date Analyzed: 06/05/12 15:45
Lab Samp ID: E229-07                          Dilution Factor: 0.980
Lab File ID: 98F02035                         Matrix          : SOIL
Ext Btch ID: IMF004S                          % Moisture     : 11.4
Calib. Ref.: 98F02030                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18900	111	13.3
Antimony	0.221J	0.553	0.111
Arsenic	5.90	0.553	0.221
Barium	147	0.553	0.221
Beryllium	0.895	0.553	0.0553
Boron	ND	5.53	2.77
Cadmium	0.134J	0.553	0.0553
Calcium	2810	22.1	11.1
Chromium	23.2	0.553	0.221
Cobalt	8.74	0.553	0.0553
Copper	8.63	0.553	0.221
Iron	24200	111	11.1
Lead	9.91	0.553	0.111
Magnesium	5130	11.1	5.53
Manganese	489	0.553	0.277
Molybdenum	0.526J	0.553	0.0553
Nickel	12.7	0.553	0.221
Potassium	1860	111	33.2
Selenium	ND	0.553	0.221
Silver	0.0654J	0.553	0.0553
Sodium	224	111	55.3
Strontium	28.4	0.553	0.277
Thallium	0.270J	0.442	0.0553
Tin	ND	11.1	5.53
Titanium	902	1.11	0.553
Vanadium	45.8	0.553	0.0553
Zinc	46.4	5.53	1.66
Lithium	20.2	2.21	1.11
Phosphorus	135	13.3	6.64
Zirconium	ND	5.53	2.77

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/29/12
Project     : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.    : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID   : SL-723-SA5C-SB-9.0-10.0         Date Analyzed: 06/05/12 15:50
Lab Samp ID: E229-09                           Dilution Factor: 0.935
Lab File ID: 98F02036                         Matrix          : SOIL
Ext Btch ID: IMF004S                          % Moisture     : 7.5
Calib. Ref.: 98F02030                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16300	101	12.1
Antimony	0.325J	0.505	0.101
Arsenic	8.39	0.505	0.202
Barium	124	0.505	0.202
Beryllium	0.959	0.505	0.0505
Boron	ND	5.05	2.53
Cadmium	0.237J	0.505	0.0505
Calcium	5010	20.2	10.1
Chromium	26.1	0.505	0.202
Cobalt	8.41	0.505	0.0505
Copper	19.6	0.505	0.202
Iron	29500	101	10.1
Lead	11.1	0.505	0.101
Magnesium	7660	10.1	5.05
Manganese	351	0.505	0.253
Molybdenum	0.528	0.505	0.0505
Nickel	19.8	0.505	0.202
Potassium	2290	101	30.3
Selenium	ND	0.505	0.202
Silver	0.0648J	0.505	0.0505
Sodium	260	101	50.5
Strontium	30.0	0.505	0.253
Thallium	0.324J	0.404	0.0505
Tin	ND	10.1	5.05
Titanium	964	1.01	0.505
Vanadium	45.7	0.505	0.0505
Zinc	83.6	5.05	1.52
Lithium	38.6	2.02	1.01
Phosphorus	638	12.1	6.06
Zirconium	ND	5.05	2.53

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/29/12
Project     : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.    : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID:  SL-724-SA5C-SB-0.0-0.5           Date Analyzed: 06/05/12 15:54
Lab Samp ID: E229-11                          Dilution Factor: 0.990
Lab File ID: 98F02037                         Matrix          : SOIL
Ext Btch ID: IMF004S                          % Moisture     : 13.2
Calib. Ref.: 98F02030                         Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12900	114	13.7
Antimony	0.192J	0.570	0.114
Arsenic	3.93	0.570	0.228
Barium	130	0.570	0.228
Beryllium	0.615	0.570	0.0570
Boron	ND	5.70	2.85
Cadmium	0.230J	0.570	0.0570
Calcium	1870	22.8	11.4
Chromium	17.2	0.570	0.228
Cobalt	6.36	0.570	0.0570
Copper	10.3	0.570	0.228
Iron	18100	114	11.4
Lead	5.73	0.570	0.114
Magnesium	3830	11.4	5.70
Manganese	316	0.570	0.285
Molybdenum	0.652	0.570	0.0570
Nickel	11.3	0.570	0.228
Potassium	2520	114	34.2
Selenium	ND	0.570	0.228
Silver	ND	0.570	0.0570
Sodium	99.2J	114	57.0
Strontium	21.5	0.570	0.285
Thallium	0.284J	0.456	0.0570
Tin	ND	11.4	5.70
Titanium	850	1.14	0.570
Vanadium	34.3	0.570	0.0570
Zinc	41.8	5.70	1.71
Lithium	12.1	2.28	1.14
Phosphorus	156	13.7	6.84
Zirconium	ND	5.70	2.85

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/29/12
Project    : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.    : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID  : SL-724-SA5C-SB-4.0-5.0          Date Analyzed: 06/05/12 15:59
Lab Samp ID: E229-12                           Dilution Factor: 0.939
Lab File ID: 98F02038                          Matrix          : SOIL
Ext Btch ID: IMF004S                            % Moisture     : 13.1
Calib. Ref.: 98F02030                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19800	108	13.0
Antimony	0.214J	0.540	0.108
Arsenic	4.83	0.540	0.216
Barium	141	0.540	0.216
Beryllium	0.753	0.540	0.0540
Boron	ND	5.40	2.70
Cadmium	0.128J	0.540	0.0540
Calcium	3770	21.6	10.8
Chromium	22.9	0.540	0.216
Cobalt	5.82	0.540	0.0540
Copper	8.86	0.540	0.216
Iron	22900	108	10.8
Lead	6.56	0.540	0.108
Magnesium	5580	10.8	5.40
Manganese	168	0.540	0.270
Molybdenum	0.297J	0.540	0.0540
Nickel	11.7	0.540	0.216
Potassium	1790	108	32.4
Selenium	ND	0.540	0.216
Silver	0.0541J	0.540	0.0540
Sodium	441	108	54.0
Strontium	31.6	0.540	0.270
Thallium	0.301J	0.432	0.0540
Tin	ND	10.8	5.40
Titanium	911	1.08	0.540
Vanadium	41.2	0.540	0.0540
Zinc	49.8	5.40	1.62
Lithium	21.5	2.16	1.08
Phosphorus	90.1	13.0	6.48
Zirconium	ND	5.40	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/29/12
Project     : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.    : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID:  SL-724-SA5C-SB-9.0-10.0          Date Analyzed: 06/05/12 16:04
Lab Samp ID: E229-14                          Dilution Factor: 0.976
Lab File ID: 98F02039                         Matrix          : SOIL
Ext Btch ID: IMF004S                          % Moisture     : 12.2
Calib. Ref.: 98F02030                         Instrument ID  : T-198
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19700	111	13.3
Antimony	0.262J	0.556	0.111
Arsenic	6.74	0.556	0.222
Barium	138	0.556	0.222
Beryllium	1.02	0.556	0.0556
Boron	ND	5.56	2.78
Cadmium	0.233J	0.556	0.0556
Calcium	5730	22.2	11.1
Chromium	33.0	0.556	0.222
Cobalt	8.48	0.556	0.0556
Copper	20.9	0.556	0.222
Iron	28700	111	11.1
Lead	10.5	0.556	0.111
Magnesium	8660	11.1	5.56
Manganese	308	0.556	0.278
Molybdenum	0.434J	0.556	0.0556
Nickel	22.4	0.556	0.222
Potassium	2640	111	33.3
Selenium	ND	0.556	0.222
Silver	0.116J	0.556	0.0556
Sodium	337	111	55.6
Strontium	33.7	0.556	0.278
Thallium	0.320J	0.445	0.0556
Tin	ND	11.1	5.56
Titanium	939	1.11	0.556
Vanadium	48.2	0.556	0.0556
Zinc	86.4	5.56	1.67
Lithium	45.5	2.22	1.11
Phosphorus	681	13.3	6.67
Zirconium	ND	5.56	2.78

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/29/12
Project    : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.    : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID  : SL-750-SA5C-SB-0.0-0.5          Date Analyzed: 06/05/12 16:08
Lab Samp ID: E229-16                           Dilution Factor: 0.966
Lab File ID: 98F02040                          Matrix          : SOIL
Ext Btch ID: IMF004S                            % Moisture     : 9.8
Calib. Ref.: 98F02030                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15400	107	12.9
Antimony	0.215J	0.535	0.107
Arsenic	5.67	0.535	0.214
Barium	155	0.535	0.214
Beryllium	0.618	0.535	0.0535
Boron	ND	5.35	2.68
Cadmium	0.242J	0.535	0.0535
Calcium	2900	21.4	10.7
Chromium	22.2	0.535	0.214
Cobalt	7.61	0.535	0.0535
Copper	11.6	0.535	0.214
Iron	26200	107	10.7
Lead	6.09	0.535	0.107
Magnesium	6370	10.7	5.35
Manganese	349	0.535	0.268
Molybdenum	0.496J	0.535	0.0535
Nickel	15.7	0.535	0.214
Potassium	4180	107	32.1
Selenium	ND	0.535	0.214
Silver	ND	0.535	0.0535
Sodium	159	107	53.5
Strontium	18.6	0.535	0.268
Thallium	0.371J	0.428	0.0535
Tin	ND	10.7	5.35
Titanium	1360	1.07	0.535
Vanadium	41.1	0.535	0.0535
Zinc	92.4	5.35	1.61
Lithium	42.3	2.14	1.07
Phosphorus	367	12.9	6.43
Zirconium	ND	5.35	2.68

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.     : 12E229                            Date Extracted: 06/01/12 14:35
Sample ID   : SL-750-SA5C-SB-5.5-6.5          Date Analyzed: 06/05/12 16:29
Lab Samp ID : E229-17                           Dilution Factor: 0.948
Lab File ID : 98F02044                          Matrix          : SOIL
Ext Btch ID : IMF004S                            % Moisture     : 9.2
Calib. Ref. : 98F02042                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17400	104	12.5
Antimony	0.217J	0.522	0.104
Arsenic	8.84	0.522	0.209
Barium	139	0.522	0.209
Beryllium	0.936	0.522	0.0522
Boron	ND	5.22	2.61
Cadmium	0.269J	0.522	0.0522
Calcium	10700	20.9	10.4
Chromium	27.6	0.522	0.209
Cobalt	7.93	0.522	0.0522
Copper	19.0	0.522	0.209
Iron	30600	104	10.4
Lead	10.7	0.522	0.104
Magnesium	7310	10.4	5.22
Manganese	286	0.522	0.261
Molybdenum	0.494J	0.522	0.0522
Nickel	18.6	0.522	0.209
Potassium	2930	104	31.3
Selenium	ND	0.522	0.209
Silver	0.0985J	0.522	0.0522
Sodium	143	104	52.2
Strontium	23.1	0.522	0.261
Thallium	0.319J	0.418	0.0522
Tin	ND	10.4	5.22
Titanium	898	1.04	0.522
Vanadium	48.8	0.522	0.0522
Zinc	90.2	5.22	1.57
Lithium	39.4	2.09	1.04
Phosphorus	685	12.5	6.26
Zirconium	ND	5.22	2.61

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/29/12
Project    : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.    : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID  : SL-554-SA5C-SB-0.0-0.5          Date Analyzed: 06/05/12 16:33
Lab Samp ID: E229-19                           Dilution Factor: 0.976
Lab File ID: 98F02045                           Matrix          : SOIL
Ext Btch ID: IMF004S                            % Moisture     : 9.7
Calib. Ref.: 98F02042                           Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12900	108	13.0
Antimony	0.234J	0.540	0.108
Arsenic	6.16	0.540	0.216
Barium	123	0.540	0.216
Beryllium	0.532J	0.540	0.0540
Boron	ND	5.40	2.70
Cadmium	0.229J	0.540	0.0540
Calcium	6340	21.6	10.8
Chromium	20.2	0.540	0.216
Cobalt	6.69	0.540	0.0540
Copper	11.6	0.540	0.216
Iron	22100	108	10.8
Lead	13.9	0.540	0.108
Magnesium	5360	10.8	5.40
Manganese	269	0.540	0.270
Molybdenum	2.14	0.540	0.0540
Nickel	13.1	0.540	0.216
Potassium	2580	108	32.4
Selenium	ND	0.540	0.216
Silver	ND	0.540	0.0540
Sodium	80.0J	108	54.0
Strontium	29.4	0.540	0.270
Thallium	0.259J	0.432	0.0540
Tin	ND	10.8	5.40
Titanium	900	1.08	0.540
Vanadium	36.0	0.540	0.0540
Zinc	61.8	5.40	1.62
Lithium	25.0	2.16	1.08
Phosphorus	745	13.0	6.49
Zirconium	2.88J	5.40	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/29/12
Project     : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.    : 12E229                            Date Extracted: 06/01/12 14:35
Sample ID   : SL-555-SA5C-SB-0.0-0.5          Date Analyzed: 06/05/12 16:38
Lab Samp ID: E229-20                           Dilution Factor: 0.943
Lab File ID: 98F02046                          Matrix          : SOIL
Ext Btch ID: IMF004S                            % Moisture     : 11.7
Calib. Ref.: 98F02042                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17500	107	12.8
Antimony	0.295J	0.534	0.107
Arsenic	8.38	0.534	0.214
Barium	99.1	0.534	0.214
Beryllium	0.954	0.534	0.0534
Boron	ND	5.34	2.67
Cadmium	0.158J	0.534	0.0534
Calcium	5350	21.4	10.7
Chromium	32.2	0.534	0.214
Cobalt	6.33	0.534	0.0534
Copper	17.9	0.534	0.214
Iron	27100	107	10.7
Lead	9.62	0.534	0.107
Magnesium	7290	10.7	5.34
Manganese	226	0.534	0.267
Molybdenum	0.475J	0.534	0.0534
Nickel	20.1	0.534	0.214
Potassium	1850	107	32.0
Selenium	ND	0.534	0.214
Silver	0.255J	0.534	0.0534
Sodium	377	107	53.4
Strontium	33.4	0.534	0.267
Thallium	0.302J	0.427	0.0534
Tin	ND	10.7	5.34
Titanium	711	1.07	0.534
Vanadium	43.2	0.534	0.0534
Zinc	67.5	5.34	1.60
Lithium	37.2	2.14	1.07
Phosphorus	454	12.8	6.41
Zirconium	ND	5.34	2.67

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/29/12
Project     : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.    : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID:  SL-555-SA5C-SB-2.5-3.5           Date Analyzed: 06/05/12 16:42
Lab Samp ID: E229-21                          Dilution Factor: 0.952
Lab File ID: 98F02047                        Matrix          : SOIL
Ext Btch ID: IMF004S                         % Moisture     : 12.0
Calib. Ref.: 98F02042                       Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	21600	108	13.0
Antimony	0.289J	0.541	0.108
Arsenic	9.28	0.541	0.216
Barium	133	0.541	0.216
Beryllium	1.04	0.541	0.0541
Boron	ND	5.41	2.70
Cadmium	0.352J	0.541	0.0541
Calcium	5700	21.6	10.8
Chromium	41.8	0.541	0.216
Cobalt	11.7	0.541	0.0541
Copper	23.8	0.541	0.216
Iron	32800	108	10.8
Lead	11.8	0.541	0.108
Magnesium	10500	10.8	5.41
Manganese	433	0.541	0.270
Molybdenum	0.585	0.541	0.0541
Nickel	30.5	0.541	0.216
Potassium	3570	108	32.5
Selenium	0.294J	0.541	0.216
Silver	0.109J	0.541	0.0541
Sodium	366	108	54.1
Strontium	33.1	0.541	0.270
Thallium	0.334J	0.433	0.0541
Tin	ND	10.8	5.41
Titanium	1290	1.08	0.541
Vanadium	57.8	0.541	0.0541
Zinc	91.5	5.41	1.62
Lithium	53.9	2.16	1.08
Phosphorus	693	13.0	6.49
Zirconium	3.44J	5.41	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/29/12
Project      : SSFL PHASE 3                     Date Received: 05/29/12
SDG NO.     : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID   : SL-620-SA5C-SB-0.0-0.5          Date Analyzed: 06/05/12 15:04
Lab Samp ID : E229-23                           Dilution Factor: 0.939
Lab File ID : 98F02026                         Matrix          : SOIL
Ext Btch ID : IMF004S                          % Moisture     : 7.1
Calib. Ref. : 98F02018                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11600	101	12.1
Antimony	0.310J	0.505	0.101
Arsenic	6.24	0.505	0.202
Barium	76.5	0.505	0.202
Beryllium	0.563	0.505	0.0505
Boron	ND	5.05	2.53
Cadmium	0.184J	0.505	0.0505
Calcium	3840	20.2	10.1
Chromium	23.4	0.505	0.202
Cobalt	6.94	0.505	0.0505
Copper	11.0	0.505	0.202
Iron	22400	101	10.1
Lead	6.13	0.505	0.101
Magnesium	5470	10.1	5.05
Manganese	344	0.505	0.253
Molybdenum	1.40	0.505	0.0505
Nickel	16.6	0.505	0.202
Potassium	2210	101	30.3
Selenium	ND	0.505	0.202
Silver	ND	0.505	0.0505
Sodium	256	101	50.5
Strontium	22.8	0.505	0.253
Thallium	0.239J	0.404	0.0505
Tin	ND	10.1	5.05
Titanium	963	1.01	0.505
Vanadium	39.9	0.505	0.0505
Zinc	61.2	5.05	1.52
Lithium	25.1	2.02	1.01
Phosphorus	482	12.1	6.06
Zirconium	ND	5.05	2.53

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/01/12
SDG NO.     : 12E229                           Date Extracted: 06/01/12 14:35
Sample ID   : MBLK1S                            Date Analyzed: 06/05/12 14:37
Lab Samp ID : IMF004SB                          Dilution Factor: 1
Lab File ID : 98F02020                         Matrix          : SOIL
Ext Btch ID : IMF004S                           % Moisture     : NA
Calib. Ref. : 98F02018                         Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E229  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF004SB IMF004SL IMF004SC  
LAB FILE ID: 98F02020 98F02021 98F02022  
DATIME EXTRACTD: 06/01/1214:35 06/01/1214:35 06/01/1214:35 DATE COLLECTED: NA  
DATIME ANALYZD: 06/05/1214:37 06/05/1214:42 06/05/1214:46 DATE RECEIVED: 06/01/12  
PREP. BATCH: IMF004S IMF004S IMF004S  
CALIB. REF: 98F02018 98F02018 98F02018

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2560	102	2500	2650	106	4	80-120	20
Antimony	ND	25.0	24.1	96	25.0	24.9	100	3	80-120	20
Arsenic	ND	25.0	24.6	99	25.0	25.4	102	3	80-120	20
Barium	ND	25.0	24.0	96	25.0	24.7	99	3	80-120	20
Beryllium	ND	25.0	25.0	100	25.0	25.2	101	1	80-120	20
Boron	ND	25.0	25.4	102	25.0	25.8	103	1	80-120	20
Cadmium	ND	25.0	23.5	94	25.0	24.1	97	3	80-120	20
Calcium	ND	2500	2590	104	2500	2640	106	2	80-120	20
Chromium	ND	25.0	24.6	98	25.0	25.1	100	2	80-120	20
Cobalt	ND	25.0	24.1	96	25.0	24.9	100	4	80-120	20
Copper	ND	25.0	24.4	97	25.0	24.8	99	2	80-120	20
Iron	ND	2500	2480	99	2500	2520	101	2	80-120	20
Lead	ND	25.0	24.5	98	25.0	25.3	101	3	80-120	20
Magnesium	ND	2500	2570	103	2500	2670	107	4	80-120	20
Manganese	ND	25.0	24.5	98	25.0	25.7	103	5	80-120	20
Molybdenum	ND	25.0	23.6	94	25.0	24.5	98	4	80-120	20
Nickel	ND	25.0	24.3	97	25.0	24.9	99	2	80-120	20
Potassium	ND	2500	2580	103	2500	2650	106	2	80-120	20
Selenium	ND	25.0	23.7	95	25.0	24.6	98	4	80-120	20
Silver	ND	25.0	23.8	95	25.0	24.7	99	4	80-120	20
Sodium	ND	2500	2530	101	2500	2600	104	3	80-120	20
Strontium	ND	25.0	24.9	100	25.0	25.6	102	3	80-120	20
Thallium	ND	25.0	24.7	99	25.0	25.2	101	2	80-120	20
Tin	ND	25.0	26.6	106	25.0	27.4	110	3	80-120	20
Titanium	ND	25.0	24.8	99	25.0	25.5	102	3	80-120	20
Vanadium	ND	25.0	24.7	99	25.0	25.2	101	2	80-120	20
Zinc	ND	50.0	46.8	94	50.0	48.8	98	4	80-120	20
Lithium	ND	25.0	25.2	101	25.0	25.7	103	2	80-120	20
Phosphorus	ND	250	240	96	250	247	99	3	80-120	20
Zirconium	ND	25.0	24.2	97	25.0	24.8	99	2	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E229  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.1  
DILTN FACTR: 0.939 0.943 0.985  
SAMPLE ID: SL-620-SA5C-SB-0.0-0.5  
CONTROL NO.: E229-23 E229-23M E229-23S  
LAB FILE ID: 98F02026 98F02023 98F02024  
DATIME EXTRACTD: 06/01/1214:35 06/01/1214:35 06/01/1214:35 DATE COLLECTED: 05/29/12  
DATIME ANALYZD: 06/05/1215:04 06/05/1214:51 06/05/1214:55 DATE RECEIVED: 05/29/12  
PREP. BATCH: IMF004S IMF004S IMF004S  
CALIB. REF: 98F02018 98F02018 98F02018

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	11600	2540	13200	63*	2650	13600	78	4	75-125	20
Antimony	0.310J	25.4	21.9	85	26.5	23.9	89	9	75-125	20
Arsenic	6.24	25.4	29.8	93	26.5	31.3	95	5	75-125	20
Barium	76.5	25.4	103	105	26.5	105	108	2	75-125	20
Beryllium	0.563	25.4	26.7	103	26.5	26.8	99	0	75-125	20
Boron	ND	25.4	26.6	105	26.5	27.1	102	2	75-125	20
Cadmium	0.184J	25.4	24.6	96	26.5	26.2	98	6	75-125	20
Calcium	3840	2540	6390	101	2650	6290	92	2	75-125	20
Chromium	23.4	25.4	44.4	83	26.5	46.2	86	4	75-125	20
Cobalt	6.94	25.4	29.3	88	26.5	30.8	90	5	75-125	20
Copper	11.0	25.4	32.6	85	26.5	33.8	86	4	75-125	20
Iron	22400	2540	23600	46*	2650	24000	60*	2	75-125	20
Lead	6.13	25.4	30.6	97	26.5	31.6	96	3	75-125	20
Magnesium	5470	2540	7400	76	2650	7740	86	4	75-125	20
Manganese	344	25.4	368	94	26.5	400	209*	8	75-125	20
Molybdenum	1.40	25.4	26.2	98	26.5	27.5	99	5	75-125	20
Nickel	16.6	25.4	38.0	84	26.5	40.3	89	6	75-125	20
Potassium	2210	2540	4600	94	2650	4860	100	6	75-125	20
Selenium	ND	25.4	23.9	94	26.5	25.6	96	7	75-125	20
Silver	ND	25.4	25.0	98	26.5	26.2	99	5	75-125	20
Sodium	256	2540	2590	92	2650	2690	92	4	75-125	20
Strontium	22.8	25.4	46.8	95	26.5	47.5	93	1	75-125	20
Thallium	0.239J	25.4	25.2	98	26.5	26.0	97	3	75-125	20
Tin	ND	25.4	29.0	114	26.5	30.0	113	3	75-125	20
Titanium	963	25.4	951	-50*	26.5	989	96	4	75-125	20
Vanadium	39.9	25.4	60.5	81	26.5	62.3	85	3	75-125	20
Zinc	61.2	50.8	107	91	53.0	110	92	2	75-125	20
Lithium	25.1	25.4	50.0	98	26.5	49.9	94	0	75-125	20
Phosphorus	482	254	695	84	265	706	84	2	75-125	20
Zirconium	ND	25.4	25.2	99	26.5	26.1	98	3	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E229  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.1  
DILTN FACTR: 0.939 0.939  
SAMPLE ID: SL-620-SA5C-SB-0.0-0.5  
CONTROL NO.: E229-23 E229-23A  
LAB FILE ID: 98F02026 98F02025  
DATIME EXTRACTD: 06/01/1214:35 06/01/1214:35 DATE COLLECTED: 05/29/12  
DATIME ANALYZD: 06/05/1215:04 06/05/1215:00 DATE RECEIVED: 05/29/12  
PREP. BATCH: IMF004S IMF004S  
CALIB. REF: 98F02018 98F02018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	11600	2530	14000	96	75-125
Antimony	0.310J	25.3	24.8	97	75-125
Arsenic	6.24	25.3	29.8	93	75-125
Barium	76.5	25.3	105	113	75-125
Beryllium	0.563	25.3	24.8	96	75-125
Boron	ND	25.3	25.2	100	75-125
Cadmium	0.184J	25.3	24.0	94	75-125
Calcium	3840	2530	6280	96	75-125
Chromium	23.4	25.3	45.7	88	75-125
Cobalt	6.94	25.3	28.7	86	75-125
Copper	11.0	25.3	32.6	85	75-125
Iron	22400	2530	24500	83	75-125
Lead	6.13	25.3	29.7	93	75-125
Magnesium	5470	2530	7950	98	75-125
Manganese	344	25.3	365	81	75-125
Molybdenum	1.40	25.3	25.6	96	75-125
Nickel	16.6	25.3	38.1	85	75-125
Potassium	2210	2530	4760	101	75-125
Selenium	ND	25.3	23.6	93	75-125
Silver	ND	25.3	23.7	94	75-125
Sodium	256	2530	2650	95	75-125
Strontium	22.8	25.3	47.2	96	75-125
Thallium	0.239J	25.3	24.5	96	75-125
Tin	ND	25.3	28.0	111	75-125
Titanium	963	25.3	992	112	75-125
Vanadium	39.9	25.3	62.4	89	75-125
Zinc	61.2	50.5	108	93	75-125
Lithium	25.1	25.3	50.2	99	75-125
Phosphorus	482	253	717	93	75-125
Zirconium	ND	25.3	26.6	105	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E229  
 METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 7.1  
 DILUTION FACTOR: 0.939 4.69  
 SAMPLE ID: SL-620-SA5C-SB SL-620-SA5C-SB  
 EMAX SAMP ID: E229-23 E229-23J  
 LAB FILE ID: 98F02026 98F02027  
 DATE EXTRACTED: 06/01/1214:35 06/01/1214:35 DATE COLLECTED: 05/29/12  
 DATE ANALYZED: 06/05/1215:04 06/05/1215:09 DATE RECEIVED: 05/29/12  
 PREP. BATCH: IMF004S IMF004S  
 CALIB. REF: 98F02018 98F02018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	11600	12500	8	10
Antimony	0.310J	ND	NA	10
Arsenic	6.24	6.18	1	10
Barium	76.5	74.0	3	10
Beryllium	0.563	0.550J	NA	10
Boron	ND	ND	0	10
Cadmium	0.184J	ND	NA	10
Calcium	3840	4060	6	10
Chromium	23.4	25.0	7	10
Cobalt	6.94	7.63	10	10
Copper	11.0	12.0	9	10
Iron	22400	24100	7	10
Lead	6.13	6.15	0	10
Magnesium	5470	5860	7	10
Manganese	344	375	9	10
Molybdenum	1.40	1.42J	NA	10
Nickel	16.6	18.0	9	10
Potassium	2210	2310	5	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	256	ND	NA	10
Strontium	22.8	22.0	4	10
Thallium	0.239J	ND	NA	10
Tin	ND	ND	0	10
Titanium	963	1040	8	10
Vanadium	39.9	42.1	5	10
Zinc	61.2	61.9	1	10
Lithium	25.1	23.6	6	10
Phosphorus	482	479	1	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E229

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGF002SB	ND	1	NA	0.100	0.0500	06/05/1214:46	06/05/1211:30	M47F002010	M47F002008	HGF002S	NA	06/05/12
LCS1S	HGF002SL	0.870	1	NA	0.100	0.0500	06/05/1214:48	06/05/1211:30	M47F002011	M47F002008	HGF002S	NA	06/05/12
LCD1S	HGF002SC	0.867	1	NA	0.100	0.0500	06/05/1214:50	06/05/1211:30	M47F002012	M47F002008	HGF002S	NA	06/05/12
SL-706-SA5C-SB-0.0-0.5	E229-01	ND	0.987	6.8	0.106	0.0530	06/05/1215:02	06/05/1211:30	M47F002018	M47F002008	HGF002S	05/29/12	05/29/12
SL-706-SA5C-SB-4.0-5.0	E229-02	ND	0.987	9.6	0.109	0.0546	06/05/1215:05	06/05/1211:30	M47F002019	M47F002008	HGF002S	05/29/12	05/29/12
SL-706-SA5C-SB-9.0-10.0	E229-04	ND	0.990	9.2	0.109	0.0545	06/05/1215:11	06/05/1211:30	M47F002022	M47F002020	HGF002S	05/29/12	05/29/12
SL-723-SA5C-SB-0.0-0.5	E229-06	ND	0.997	5.4	0.105	0.0527	06/05/1215:14	06/05/1211:30	M47F002023	M47F002020	HGF002S	05/29/12	05/29/12
SL-723-SA5C-SB-4.0-5.0	E229-07	ND	1.00	11.4	0.113	0.0564	06/05/1215:16	06/05/1211:30	M47F002024	M47F002020	HGF002S	05/29/12	05/29/12
SL-723-SA5C-SB-9.0-10.0	E229-09	ND	0.993	7.5	0.107	0.0537	06/05/1215:18	06/05/1211:30	M47F002025	M47F002020	HGF002S	05/29/12	05/29/12
SL-724-SA5C-SB-0.0-0.5	E229-11	ND	0.995	13.2	0.115	0.0573	06/05/1215:20	06/05/1211:30	M47F002026	M47F002020	HGF002S	05/29/12	05/29/12
SL-724-SA5C-SB-4.0-5.0	E229-12	ND	1.00	13.1	0.115	0.0575	06/05/1215:22	06/05/1211:30	M47F002027	M47F002020	HGF002S	05/29/12	05/29/12
SL-724-SA5C-SB-9.0-10.0	E229-14	ND	0.998	12.2	0.114	0.0568	06/05/1215:24	06/05/1211:30	M47F002028	M47F002020	HGF002S	05/29/12	05/29/12
SL-750-SA5C-SB-0.0-0.5	E229-16	ND	0.987	9.8	0.109	0.0547	06/05/1215:26	06/05/1211:30	M47F002029	M47F002020	HGF002S	05/29/12	05/29/12
SL-750-SA5C-SB-5.5-6.5	E229-17	ND	1.00	9.2	0.110	0.0551	06/05/1215:29	06/05/1211:30	M47F002030	M47F002020	HGF002S	05/29/12	05/29/12
SL-554-SA5C-SB-0.0-0.5	E229-19	ND	1.00	9.7	0.111	0.0554	06/05/1215:31	06/05/1211:30	M47F002031	M47F002020	HGF002S	05/29/12	05/29/12
SL-555-SA5C-SB-0.0-0.5	E229-20	ND	1.00	11.7	0.113	0.0566	06/05/1215:37	06/05/1211:30	M47F002034	M47F002032	HGF002S	05/29/12	05/29/12
SL-555-SA5C-SB-2.5-3.5	E229-21	ND	1.01	12.0	0.115	0.0574	06/05/1215:39	06/05/1211:30	M47F002035	M47F002032	HGF002S	05/29/12	05/29/12
SL-620-SA5C-SB-0.0-0.5	E229-23	ND	0.987	7.1	0.106	0.0531	06/05/1215:41	06/05/1211:30	M47F002036	M47F002032	HGF002S	05/29/12	05/29/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E229  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF002SB HGF002SL HGF002SC  
LAB FILE ID: M47F002010 M47F002011 M47F002012  
DATIME EXTRCTD: 06/05/1211:30 06/05/1211:30 06/05/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/05/1214:46 06/05/1214:48 06/05/1214:50 DATE RECEIVED: 06/05/12  
PREP. BATCH: HGF002S HGF002S HGF002S  
CALIB. REF: M47F002008 M47F002008 M47F002008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.87	104	.833	.867	104	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E229  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 27.5  
DILTN FACTR: 0.997 0.997  
SAMPLE ID: CP104-PNDSED  
CONTROL NO.: F006-01 F006-01A  
LAB FILE ID: M47F002014 M47F002013  
DATIME EXTRCTD: 06/05/1211:30 06/05/1211:30 DATE COLLECTED: 05/31/12  
DATIME ANALYZD: 06/05/1214:54 06/05/1214:52 DATE RECEIVED: 06/01/12  
PREP. BATCH: HGF002S HGF002S  
CALIB. REF: M47F002008 M47F002008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	.118J	1.15	1.31	104	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E229  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	27.5
DILUTION FACTOR:	0.997	4.98		
SAMPLE ID:	CP104-PNDS	CP104-PNDSDDL		
EMAX SAMP ID:	F006-01	F006-01J		
LAB FILE ID:	M47F002014	M47F002015		
DATE EXTRACTED:	06/05/1211:30	06/05/1211:30	DATE COLLECTED:	05/31/12
DATE ANALYZED:	06/05/1214:54	06/05/1214:56	DATE RECEIVED:	06/01/12
PREP. BATCH:	HGF002S	HGF002S		
CALIB. REF:	M47F002008	M47F002008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
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Mercury	0.118J	ND	NA	10

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E229  
=====

Matrix : SOIL  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLF001SB	ND	1	NA	5.00	2.50	06/05/1211:42	06/05/1210:02	NF05004	NF05003	PLF001S	NA	06/05/12
LCS1S	PLF001SL	26.0	1	NA	5.00	2.50	06/05/1212:31	06/05/1210:02	NF05005	NF05003	PLF001S	NA	06/05/12
LCD1S	PLF001SC	25.0	1	NA	5.00	2.50	06/05/1212:45	06/05/1210:02	NF05006	NF05003	PLF001S	NA	06/05/12
SL-620-SA5C-SB-0.0-0.5	E229-23	ND	1	7.1	5.38	2.69	06/05/1213:28	06/05/1210:02	NF05009	NF05003	PLF001S	05/29/1215:10	05/29/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E229  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLF001SB PLF001SL PLF001SC  
LAB FILE ID: NF05004 NF05005 NF05006  
DATE EXTRACTED: 06/05/1210:02 06/05/1210:02 06/05/1210:02 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1211:42 06/05/1212:31 06/05/1212:45 DATE RECEIVED: 06/05/12  
PREP. BATCH: PLF001S PLF001S PLF001S  
CALIB. REF: NF05003 NF05003 NF05003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	26.0	104	25.0	25.0	100	4	85-115	20

## METHOD 9045D

PH

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E229

Matrix : SOIL  
 Instrument ID : 53

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-706-SA5C-SB-0.0-0.5	E229-01	8.22	1	NA	NA	NA	05/30/1216:52	05/30/1215:07	12PHE033S01	PHE033S	PHE033S	05/29/1210:54	05/29/12
SL-706-SA5C-SB-0.0-0.5	DUPE229-01D	8.21	1	NA	NA	NA	05/30/1216:53	05/30/1215:07	12PHE033S02	PHE033S	PHE033S	05/29/1210:54	05/29/12
SL-706-SA5C-SB-4.0-5.0	E229-02	8.48	1	NA	NA	NA	05/30/1216:54	05/30/1215:07	12PHE033S03	PHE033S	PHE033S	05/29/1210:59	05/29/12
SL-706-SA5C-SB-9.0-10.0	E229-04	8.65	1	NA	NA	NA	05/30/1216:56	05/30/1215:07	12PHE033S04	PHE033S	PHE033S	05/29/1211:04	05/29/12
SL-723-SA5C-SB-0.0-0.5	E229-06	8.10	1	NA	NA	NA	05/30/1216:57	05/30/1215:07	12PHE033S05	PHE033S	PHE033S	05/29/1210:05	05/29/12
SL-723-SA5C-SB-4.0-5.0	E229-07	7.69	1	NA	NA	NA	05/30/1216:59	05/30/1215:07	12PHE033S06	PHE033S	PHE033S	05/29/1210:09	05/29/12
SL-723-SA5C-SB-9.0-10.0	E229-09	8.27	1	NA	NA	NA	05/30/1217:00	05/30/1215:07	12PHE033S07	PHE033S	PHE033S	05/29/1210:13	05/29/12
SL-724-SA5C-SB-0.0-0.5	E229-11	6.33	1	NA	NA	NA	05/30/1217:02	05/30/1215:07	12PHE033S08	PHE033S	PHE033S	05/29/1208:57	05/29/12
SL-724-SA5C-SB-4.0-5.0	E229-12	8.46	1	NA	NA	NA	05/30/1217:04	05/30/1215:07	12PHE033S09	PHE033S	PHE033S	05/29/1209:00	05/29/12
SL-724-SA5C-SB-9.0-10.0	E229-14	8.26	1	NA	NA	NA	05/30/1217:06	05/30/1215:07	12PHE033S10	PHE033S	PHE033S	05/29/1209:04	05/29/12
SL-750-SA5C-SB-0.0-0.5	E229-16	7.79	1	NA	NA	NA	05/30/1217:07	05/30/1215:07	12PHE033S11	PHE033S	PHE033S	05/29/1211:47	05/29/12
SL-750-SA5C-SB-5.5-6.5	E229-17	8.34	1	NA	NA	NA	05/30/1217:09	05/30/1215:07	12PHE033S12	PHE033S	PHE033S	05/29/1211:56	05/29/12
SL-554-SA5C-SB-0.0-0.5	E229-19	8.57	1	NA	NA	NA	05/30/1217:10	05/30/1215:07	12PHE033S13	PHE033S	PHE033S	05/29/1214:45	05/29/12
SL-555-SA5C-SB-0.0-0.5	E229-20	8.75	1	NA	NA	NA	05/30/1217:11	05/30/1215:07	12PHE033S14	PHE033S	PHE033S	05/29/1214:12	05/29/12
SL-555-SA5C-SB-2.5-3.5	E229-21	8.50	1	NA	NA	NA	05/30/1217:12	05/30/1215:07	12PHE033S15	PHE033S	PHE033S	05/29/1214:14	05/29/12
SL-620-SA5C-SB-0.0-0.5	E229-23	8.93	1	NA	NA	NA	05/30/1217:13	05/30/1215:07	12PHE033S16	PHE033S	PHE033S	05/29/1215:10	05/29/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E229	DATE RECEIVED:	05/29/12
SAMPLE ID:	SL-706-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	05/30/1215:07
CONTROL NO.:	E229-01D	DATE ANALYZED:	05/30/1216:53

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.22	8.21	0.01	0.10

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/04/12 12:00
Sample ID    : EB-053012                       Date Analyzed: 06/06/12 16:47
Lab Samp ID  : E244-01                         Dilution Factor: 1
Lab File ID  : RFL094                          Matrix          : WATER
Ext Btch ID  : SVF007W                        % Moisture     : NA
Calib. Ref.  : REL181                          Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	0.12J	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	12.4	20.00	62.0	40-130
2-FLUOROBIPHENYL	10.9	20.00	54.5	45-130
TERPHENYL-D14	19.8	20.00	98.8	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12E244                           Date Extracted: 06/04/12 12:00
Sample ID    : MBLK1W                           Date Analyzed: 06/06/12 13:19
Lab Samp ID  : SVF007WB                         Dilution Factor: 1
Lab File ID  : RFL086                           Matrix          : WATER
Ext Btch ID  : SVF007W                           % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	13.4	20.00	66.8	40-130
2-FLUOROBIPHENYL	12.2	20.00	61.2	45-130
TERPHENYL-D14	18.0	20.00	90.0	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVF007WB SVF007WL SVF007WC  
LAB FILE ID: RFL086 RFL087 RFL088  
DATE EXTRACTED: 06/04/1212:00 06/04/1212:00 06/04/1212:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1213:19 06/06/1213:45 06/06/1214:11 DATE RECEIVED: 06/04/12  
PREP. BATCH: SVF007W SVF007W SVF007W  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	32.6	81	40.0	33.9	85	4	20-130	30
Acenaphthylene	ND	40.0	34.4	86	40.0	34.3	86	0	30-140	30
Anthracene	ND	40.0	35.9	90	40.0	35.5	89	1	40-130	30
Benzo (a) anthracene	ND	40.0	38.8	97	40.0	37.6	94	3	50-130	30
Benzo (a) pyrene	ND	40.0	38.1	95	40.0	36.4	91	4	50-130	30
Benzo (b) fluoranthene	ND	40.0	43.0	108	40.0	41.8	105	3	50-130	30
Benzo (k) fluoranthene	ND	40.0	35.4	89	40.0	34.2	85	4	50-130	30
Benzo (g, h, i) perylene	ND	40.0	37.1	93	40.0	36.7	92	1	30-150	30
Chrysene	ND	40.0	40.1	100	40.0	38.5	96	4	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	39.8	100	40.0	39.0	97	2	40-140	30
Fluoranthene	ND	40.0	39.9	100	40.0	39.3	98	2	40-130	30
Fluorene	ND	40.0	33.1	83	40.0	34.6	87	4	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	38.9	97	40.0	39.2	98	1	40-130	30
Naphthalene	ND	40.0	29.7	74	40.0	32.1	80	8	20-130	30
Phenanthrene	ND	40.0	37.4	94	40.0	37.0	92	1	40-130	30
2-Methylnaphthalene	ND	40.0	31.0	77	40.0	31.1	78	0	30-150	30
1-Methylnaphthalene	ND	40.0	32.9	82	40.0	33.0	83	0	40-150	30
N-Nitrosodimethylamine	ND	40.0	36.0	90	40.0	34.7	87	4	20-150	30
Pyrene	ND	40.0	40.7	102	40.0	39.6	99	3	40-130	30
Azobenzene	ND	40.0	33.6	84	40.0	33.3	83	1	30-150	30
Benzo (e) pyrene	ND	40.0	39.9	100	40.0	38.8	97	3	30-150	30
Biphenyl	ND	40.0	33.5	84	40.0	35.1	88	5	30-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	13.7	69	20.0	14.0	70	40-130
2-Fluorobiphenyl	20.0	13.3	67	20.0	14.1	70	45-130
Terphenyl-d14	20.0	19.4	97	20.0	19.2	96	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/07/12 16:04
Sample ID:   SL-544-SA5C-SB-0.0-0.5           Date Analyzed: 06/08/12 00:49
Lab Samp ID: E244-02                           Dilution Factor: 1
Lab File ID: RFJ152                            Matrix          : SOIL
Ext Btch ID: SVF019S                          % Moisture     : 8.2
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	240	363.1	66.2	40-130
2-FLUOROBIPHENYL	223	363.1	61.5	45-130
TERPHENYL-D14	324	363.1	89.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/07/12 16:04
Sample ID    : SL-544-SA5C-SB-5.0-6.0          Date Analyzed: 06/08/12 01:08
Lab Samp ID  : E244-03                           Dilution Factor: 1
Lab File ID  : RFJ153                             Matrix          : SOIL
Ext Btch ID  : SVF019S                           % Moisture     : 13.4
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	217	384.9	56.3	40-130
2-FLUOROBIPHENYL	203	384.9	52.8	45-130
TERPHENYL-D14	299	384.9	77.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/07/12 16:04
Sample ID:   SL-550-SA5C-SB-0.0-0.5            Date Analyzed: 06/08/12 02:04
Lab Samp ID: E244-05                            Dilution Factor: 1
Lab File ID: RFJ156                             Matrix          : SOIL
Ext Btch ID: SVF019S                            % Moisture     : 7.7
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	3.5J	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	4.1J	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	208	361.1	57.7	40-130
2-FLUOROBIPHENYL	209	361.1	57.9	45-130
TERPHENYL-D14	292	361.1	80.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/07/12 16:04
Sample ID    : SL-560-SA5C-SB-0.0-0.5          Date Analyzed: 06/08/12 02:23
Lab Samp ID  : E244-06                          Dilution Factor: 3
Lab File ID  : RFJ157                           Matrix          : SOIL
Ext Btch ID  : SVF019S                          % Moisture     : 13.8
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	35	8.7
ACENAPHTHYLENE	ND	35	8.7
ANTHRACENE	ND	35	8.7
BENZO (A) ANTHRACENE	ND	35	8.7
BENZO (A) PYRENE	ND	35	8.7
BENZO (B) FLUORANTHENE	8.9J	35	8.7
BENZO (K) FLUORANTHENE	ND	35	8.7
BENZO (G, H, I) PERYLENE	17J	35	8.7
CHRYSENE	ND	35	8.7
DIBENZO (A, H) ANTHRACENE	ND	35	8.7
FLUORANTHENE	ND	35	8.7
FLUORENE	ND	35	8.7
INDENO (1, 2, 3-CD) PYRENE	ND	35	8.7
NAPHTHALENE	ND	35	8.7
PHENANTHRENE	ND	35	8.7
2-METHYLNAPHTHALENE	ND	35	8.7
1-METHYLNAPHTHALENE	ND	35	8.7
N-NITROSODIMETHYLAMINE	ND	35	8.7
PYRENE	ND	35	8.7
AZOBENZENE	ND	17	8.7
BENZO (E) PYRENE	16J	17	8.7
BIPHENYL	ND	17	8.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	231	386.7	59.6	40-130
2-FLUOROBIPHENYL	232	386.7	59.9	45-130
TERPHENYL-D14	298	386.7	77.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/07/12 16:04
Sample ID:   SL-560-SA5C-SB-6.5-7.5           Date Analyzed: 06/08/12 01:27
Lab Samp ID: E244-07                           Dilution Factor: 1
Lab File ID: RFJ154                            Matrix          : SOIL
Ext Btch ID: SVF019S                           % Moisture     : 9.6
Calib. Ref.: RAJ290                            Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	225	368.7	61.0	40-130
2-FLUOROBIPHENYL	214	368.7	58.1	45-130
TERPHENYL-D14	292	368.7	79.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/07/12 16:04
Sample ID:   SL-752-SA5C-SB-0.0-0.5           Date Analyzed: 06/08/12 01:45
Lab Samp ID: E244-09                           Dilution Factor: 1
Lab File ID: RFJ155                             Matrix          : SOIL
Ext Btch ID: SVF019S                           % Moisture     : 13.2
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	178	384.0	46.4	40-130
2-FLUOROBIPHENYL	152	384.0	39.7*	45-130
TERPHENYL-D14	279	384.0	72.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12E244                           Date Extracted: 06/07/12 16:04
Sample ID    : MBLK1S                           Date Analyzed: 06/07/12 19:09
Lab Samp ID  : SVF019SB                         Dilution Factor: 1
Lab File ID  : RFJ134                           Matrix          : SOIL
Ext Btch ID  : SVF019S                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	238	333.3	71.5	40-130
2-FLUOROBIPHENYL	211	333.3	63.4	45-130
TERPHENYL-D14	249	333.3	74.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF019SB SVF019SL SVF019SC  
LAB FILE ID: RFJ134 RFJ135 RFJ136  
DATE EXTRACTED: 06/07/1216:04 06/07/1216:04 06/07/1216:04 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1219:09 06/07/1219:28 06/07/1219:47 DATE RECEIVED: 06/07/12  
PREP. BATCH: SVF019S SVF019S SVF019S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	292	88	333	255	77	13	10-130	50
Acenaphthylene	ND	333	325	97	333	287	86	12	20-130	50
Anthracene	ND	333	277	83	333	243	73	13	20-130	50
Benzo (a) anthracene	ND	333	288	86	333	240	72	18	30-130	50
Benzo (a) pyrene	ND	333	319	96	333	298	89	7	30-130	50
Benzo (b) fluoranthene	ND	333	330	99	333	301	90	9	40-130	50
Benzo (k) fluoranthene	ND	333	329	99	333	310	93	6	30-140	50
Benzo (g, h, i) perylene	ND	333	337	101	333	321	96	5	30-140	50
Chrysene	ND	333	293	88	333	245	74	18	30-140	50
Dibenzo (a, h) anthracene	ND	333	334	100	333	316	95	6	40-140	50
Fluoranthene	ND	333	310	93	333	270	81	14	30-130	50
Fluorene	ND	333	296	89	333	258	77	14	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	332	100	333	314	94	6	20-160	50
Naphthalene	ND	333	281	84	333	241	72	15	10-130	50
Phenanthrene	ND	333	284	85	333	248	74	14	20-130	50
2-Methylnaphthalene	ND	333	296	89	333	255	76	15	30-150	50
1-Methylnaphthalene	ND	333	304	91	333	263	79	14	30-150	50
N-Nitrosodimethylamine	ND	333	265	80	333	224	67	17	30-150	50
Pyrene	ND	333	299	90	333	256	77	15	20-150	50
Azobenzene	ND	333	286	86	333	240	72	17	30-150	50
Benzo (e) pyrene	ND	333	292	88	333	282	85	4	30-150	50
Biphenyl	ND	333	238	71	333	215	65	10	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	264	79	333	243	73	40-130
2-Fluorobiphenyl	333	236	71	333	213	64	45-130
Terphenyl-d14	333	278	83	333	248	74	45-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.    : 12E244                             Date Extracted: 06/02/12 01:51
Sample ID    : EB-053012                          Date Analyzed: 06/02/12 01:51
Lab Samp ID  : E244-01                             Dilution Factor: 1
Lab File ID  : EF01023A                           Matrix          : WATER
Ext Btch ID  : VG39F01                             % Moisture     : NA
Calib. Ref.  : EF01013A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	25J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	34.0	40.00	84.9 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/30/12
Project    : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.  : 12E244                           Date Extracted: 06/02/12 18:21
Sample ID  : TB-053012                        Date Analyzed: 06/02/12 18:21
Lab Samp ID: E244-11                          Dilution Factor: 1
Lab File ID: EF01046A                         Matrix          : WATER
Ext Btch ID: VG39F01                          % Moisture     : NA
Calib. Ref.: EF01038A                         Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	17J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	37.0	40.00	92.5 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12E244                           Date Extracted: 06/01/12 22:58
Sample ID    : MBLK1W                           Date Analyzed: 06/01/12 22:58
Lab Samp ID  : VG39F01B                         Dilution Factor: 1
Lab File ID  : EF01019A                         Matrix          : WATER
Ext Btch ID  : VG39F01                          % Moisture     : NA
Calib. Ref.  : EF01013A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	35.0	40.00	87.5 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F01B VG39F01L VG39F01C  
LAB FILE ID: EF01019A EF01018A EF01026A  
DATE EXTRACTED: 06/01/1222:58 06/01/1222:15 06/02/1204:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/01/1222:58 06/01/1222:15 06/02/1204:00 DATE RECEIVED: 06/02/12  
PREP. BATCH: VG39F01 VG39F01 VG39F01  
CALIB. REF: EF01013A EF01013A EF01025A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	397	79	500	456	91	14	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	37.5	94	40.0	43.1	108	60-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/30/12
Project    : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.  : 12E244                             Date Extracted: 06/03/12 13:44
Sample ID: SL-544-SA5C-SB-6.0                 Date Analyzed: 06/03/12 13:44
Lab Samp ID: E244-04                          Dilution Factor: 0.92
Lab File ID: EF01073A                         Matrix          : SOIL
Ext Btch ID: GMF001S                          % Moisture     : 11.9
Calib. Ref.: EF01062A                         Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.79	2.089	85.7 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/01/12 14:23

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/03/12 14:27
Sample ID:   SL-560-SA5C-SB-7.5                Date Analyzed: 06/03/12 14:27
Lab Samp ID: E244-08                            Dilution Factor: 0.85
Lab File ID: EF01074A                           Matrix          : SOIL
Ext Btch ID: GMF001S                             % Moisture     : 9.5
Calib. Ref.: EF01062A                           Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.94	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.65	1.878	87.9 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/01/12 14:23

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/03/12
Batch No.  : 12E244                             Date Extracted: 06/03/12 11:35
Sample ID  : MBLK1S                             Date Analyzed: 06/03/12 11:35
Lab Samp ID: GMF001SB                          Dilution Factor: 1
Lab File ID: EF01070A                          Matrix          : SOIL
Ext Btch ID: GMF001S                            % Moisture     : NA
Calib. Ref.: EF01062A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.76	2.000	87.8 60-130

RL : Reporting Limit  
 Methanol Extraction: 06/01/12 14:23

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF001SB GMF001SL GMF001SC  
LAB FILE ID: EF01070A EF01071A EF01072A  
DATE EXTRACTED: 06/03/1211:35 06/03/1212:18 06/03/1213:01 DATE COLLECTED: NA  
DATE ANALYZED: 06/03/1211:35 06/03/1212:18 06/03/1213:01 DATE RECEIVED: 06/03/12  
PREP. BATCH: GMF001S GMF001S GMF001S  
CALIB. REF: EF01062A EF01062A EF01062A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	18.8	75	25.0	21.2	85	12	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.10	105	2.00	2.20	110	60-130

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.    : 12E244                             Date Extracted: 06/01/12 12:22
Sample ID    : EB-053012                          Date Analyzed: 06/01/12 12:22
Lab Samp ID  : E244-01                             Dilution Factor: 1
Lab File ID  : BF01009A                           Matrix          : WATER
Ext Btch ID  : MEF001W                             % Moisture      : NA
Calib. Ref.  : BF01002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.   : 12E244                           Date Extracted: 06/01/12 10:15
Sample ID   : MBLK1W                           Date Analyzed: 06/01/12 10:15
Lab Samp ID: MEF001WB                         Dilution Factor: 1
Lab File ID: BF01003A                         Matrix          : WATER
Ext Btch ID: MEF001W                          % Moisture     : NA
Calib. Ref.: BF01002A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 8015B

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: MEF001WB MEF001WX MEF001WY  
LAB FILE ID: BF01003A BF01007A BF01008A  
DATE EXTRACTED: 06/01/1210:15 06/01/1211:35 06/01/1211:56 DATE COLLECTED: NA  
DATE ANALYZED: 06/01/1210:15 06/01/1211:35 06/01/1211:56 DATE RECEIVED: 06/01/12  
PREP. BATCH: MEF001W MEF001W MEF001W  
CALIB. REF: BF01002A BF01002A BF01002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	11600	116	10000	11800	118	1	50-150	30
Isopropanol	ND	10000	10400	104	10000	11800	118	13	50-150	30
Methanol	ND	10000	10700	107	10000	9720	97	10	50-150	30

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.   : 12E244                           Date Extracted: 05/31/12 09:30
Sample ID   : SL-544-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 13:32
Lab Samp ID: E244-02                           Dilution Factor: 1
Lab File ID: BE31008A                         Matrix          : SOIL
Ext Btch ID: MEE006S                          % Moisture     : 8.2
Calib. Ref.: BE31002A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	540	270
ISOPROPANOL	ND	540	270
METHANOL	ND	540	270

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.   : 12E244                           Date Extracted: 05/31/12 09:30
Sample ID   : SL-544-SA5C-SB-5.0-6.0         Date Analyzed: 05/31/12 13:48
Lab Samp ID: E244-03                          Dilution Factor: 1
Lab File ID: BE31009A                        Matrix          : SOIL
Ext Btch ID: MEE006S                         % Moisture     : 13.4
Calib. Ref.: BE31002A                       Instrument ID  : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 05/31/12 09:30
Sample ID:   SL-550-SA5C-SB-0.0-0.5            Date Analyzed: 05/31/12 14:10
Lab Samp ID: E244-05                            Dilution Factor: 1
Lab File ID: BE31010A                          Matrix          : SOIL
Ext Btch ID: MEE006S                            % Moisture     : 7.7
Calib. Ref.: BE31002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	540	270
ISOPROPANOL	ND	540	270
METHANOL	ND	540	270

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 05/31/12 09:30
Sample ID    : SL-560-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 14:27
Lab Samp ID  : E244-06                           Dilution Factor: 1
Lab File ID  : BE31011A                          Matrix          : SOIL
Ext Btch ID  : MEE006S                           % Moisture      : 13.8
Calib. Ref.  : BE31002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.    : 12E244                             Date Extracted: 05/31/12 09:30
Sample ID    : SL-560-SA5C-SB-6.5-7.5           Date Analyzed: 05/31/12 14:43
Lab Samp ID  : E244-07                            Dilution Factor: 1
Lab File ID  : BE31012A                          Matrix          : SOIL
Ext Btch ID  : MEE006S                            % Moisture     : 9.6
Calib. Ref.  : BE31002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	550	280
ISOPROPANOL	ND	550	280
METHANOL	ND	550	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.   : 12E244                             Date Extracted: 05/31/12 09:30
Sample ID   : SL-752-SA5C-SB-0.0-0.5           Date Analyzed: 05/31/12 15:00
Lab Samp ID: E244-09                             Dilution Factor: 1
Lab File ID: BE31013A                           Matrix          : SOIL
Ext Btch ID: MEE006S                             % Moisture     : 13.2
Calib. Ref.: BE31002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/31/12
Batch No.    : 12E244                             Date Extracted: 05/31/12 09:30
Sample ID    : MBLK1S                             Date Analyzed: 05/31/12 12:07
Lab Samp ID  : MEE006SB                           Dilution Factor: 1
Lab File ID  : BE31004A                           Matrix          : SOIL
Ext Btch ID  : MEE006S                            % Moisture      : NA
Calib. Ref.  : BE31002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEE006SB MEE006SX MEE006SC  
LAB FILE ID: BE31004A BE31007A BE31006A  
DATE EXTRACTED: 05/31/1209:30 05/31/1209:30 05/31/1209:30 DATE COLLECTED: NA  
DATE ANALYZED: 05/31/1212:07 05/31/1213:14 05/31/1212:34 DATE RECEIVED: 05/31/12  
PREP. BATCH: MEE006S MEE006S MEE006S  
CALIB. REF: BE31002A BE31002A BE31002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	10800	108	10000	11500	115	6	50-150	50
Isopropanol	ND	10000	10100	101	10000	11200	112	11	50-150	50
Methanol	ND	10000	10800	108	10000	9390	94	14	50-150	50

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.   : 12E244                           Date Extracted: 06/01/12 13:25
Sample ID   : EB-053012                       Date Analyzed: 06/01/12 13:25
Lab Samp ID: E244-01                          Dilution Factor: 1
Lab File ID: TF01010A                        Matrix          : WATER
Ext Btch ID: PEF001W                         % Moisture     : NA
Calib. Ref.: TF01006A                       Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.   : 12E244                           Date Extracted: 06/01/12 13:08
Sample ID   : MBLK1W                           Date Analyzed: 06/01/12 13:08
Lab Samp ID: PEF001WB                         Dilution Factor: 1
Lab File ID: TF01009A                         Matrix          : WATER
Ext Btch ID: PEF001W                          % Moisture     : NA
Calib. Ref.: TF01006A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 8015M

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PEF001WB PEF001WL PEF001WC  
LAB FILE ID: TF01009A TF01007A TF01008A  
DATE EXTRACTED: 06/01/1213:08 06/01/1211:33 06/01/1212:01 DATE COLLECTED: NA  
DATE ANALYZED: 06/01/1213:08 06/01/1211:33 06/01/1212:01 DATE RECEIVED: 06/01/12  
PREP. BATCH: PEF001W PEF001W PEF001W  
CALIB. REF: TF01006A TF01006A TF01006A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	49.3	99	50.0	45.6	91	8	50-150	30
Ethylene Glycol	ND	50.0	42.2	84	50.0	39.1	78	8	50-150	30
Propylene Glycol	ND	25.0	22.1	89	25.0	20.1	81	9	50-150	30

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.   : 12E244                           Date Extracted: 05/31/12 09:30
Sample ID:  SL-544-SA5C-SB-0.0-0.5           Date Analyzed: 05/31/12 14:25
Lab Samp ID: E244-02                          Dilution Factor: 1
Lab File ID: TE31016A                        Matrix          : SOIL
Ext Btch ID: PEE005S                         % Moisture     : 8.2
Calib. Ref.: TE31015A                       Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	8.2
ETHYLENE GLYCOL	ND	11	5.4
PROPYLENE GLYCOL	ND	11	5.4

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.    : 12E244                             Date Extracted: 05/31/12 09:30
Sample ID:   SL-544-SA5C-SB-5.0-6.0             Date Analyzed: 05/31/12 14:39
Lab Samp ID: E244-03                             Dilution Factor: 1
Lab File ID: TE31017A                           Matrix          : SOIL
Ext Btch ID: PEE005S                            % Moisture     : 13.4
Calib. Ref.: TE31015A                           Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.7
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.   : 12E244                           Date Extracted: 05/31/12 09:30
Sample ID   : SL-550-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 14:52
Lab Samp ID: E244-05                           Dilution Factor: 1
Lab File ID: TE31018A                         Matrix          : SOIL
Ext Btch ID: PEE005S                          % Moisture     : 7.7
Calib. Ref.: TE31015A                         Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	8.1
ETHYLENE GLYCOL	ND	11	5.4
PROPYLENE GLYCOL	ND	11	5.4

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.   : 12E244                           Date Extracted: 05/31/12 09:30
Sample ID:  SL-560-SA5C-SB-0.0-0.5           Date Analyzed: 05/31/12 15:05
Lab Samp ID: E244-06                          Dilution Factor: 1
Lab File ID: TE31019A                        Matrix          : SOIL
Ext Btch ID: PEE005S                          % Moisture     : 13.8
Calib. Ref.: TE31015A                        Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.7
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.   : 12E244                           Date Extracted: 05/31/12 09:30
Sample ID   : SL-560-SA5C-SB-6.5-7.5          Date Analyzed: 05/31/12 15:19
Lab Samp ID: E244-07                           Dilution Factor: 1
Lab File ID: TE31020A                          Matrix          : SOIL
Ext Btch ID: PEE005S                           % Moisture     : 9.6
Calib. Ref.: TE31015A                          Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.3
ETHYLENE GLYCOL	ND	11	5.5
PROPYLENE GLYCOL	ND	11	5.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.   : 12E244                             Date Extracted: 05/31/12 09:30
Sample ID   : SL-752-SA5C-SB-0.0-0.5           Date Analyzed: 05/31/12 15:33
Lab Samp ID: E244-09                             Dilution Factor: 1
Lab File ID: TE31021A                           Matrix          : SOIL
Ext Btch ID: PEE005S                             % Moisture     : 13.2
Calib. Ref.: TE31015A                           Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.6
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.   : 12E244                           Date Extracted: 05/31/12 09:30
Sample ID   : MBLK1S                           Date Analyzed: 05/31/12 12:28
Lab Samp ID: PEE005SB                         Dilution Factor: 1
Lab File ID: TE31012A                        Matrix          : SOIL
Ext Btch ID: PEE005S                          % Moisture     : NA
Calib. Ref.: TE31004A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEE005SB PEE005SL PEE005SC  
LAB FILE ID: TE31012A TE31013A TE31014A  
DATE EXTRACTED: 05/31/1209:30 05/31/1209:30 05/31/1209:30 DATE COLLECTED: NA  
DATE ANALYZED: 05/31/1212:28 05/31/1213:21 05/31/1213:40 DATE RECEIVED: 05/31/12  
PREP. BATCH: PEE005S PEE005S PEE005S  
CALIB. REF: TE31004A TE31004A TE31004A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	50.4	101	50.0	47.8	96	5	50-150	50
Ethylene Glycol	ND	50.0	48.9	98	50.0	47.8	96	2	50-150	50
Propylene Glycol	ND	25.0	25.7	103	25.0	24.9	100	3	50-150	50

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.    : 12E244                             Date Extracted: 06/04/12 12:30
Sample ID    : EB-053012                          Date Analyzed: 06/06/12 10:04
Lab Samp ID  : E244-01                             Dilution Factor: 1.09
Lab File ID  : LF05080A                           Matrix          : WATER
Ext Btch ID  : DSF003W                             % Moisture      : NA
Calib. Ref. : LF05074A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.11	0.055
EFH(C12-C14)	ND	0.11	0.055
EFH(C15-C20)	ND	0.11	0.055
EFH(C21-C30)	ND	0.11	0.055
EFH(C30-C40)	ND	0.11	0.055
TOTAL EFH(C8-C40)	ND	0.11	0.055

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.855	1.090	78.4	40-130
HEXACOSANE	0.235	0.2725	86.2	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12E244                           Date Extracted: 06/04/12 12:30
Sample ID    : MBLK1W                            Date Analyzed: 06/06/12 08:06
Lab Samp ID  : DSF003WB                         Dilution Factor: 1
Lab File ID  : LF05073A                        Matrix          : WATER
Ext Btch ID  : DSF003W                          % Moisture      : NA
Calib. Ref.  : LF05062A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.868	1.000	86.8	40-130
HEXACOSANE	0.225	0.2500	90.2	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSF003WB DSF003WL DSF003WC  
LAB FILE ID: LF05073A LF05071A LF05072A  
DATE EXTRACTED: 06/04/1212:30 06/04/1212:30 06/04/1212:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1208:06 06/06/1207:32 06/06/1207:49 DATE RECEIVED: 06/04/12  
PREP. BATCH: DSF003W DSF003W DSF003W  
CALIB. REF: LF05062A LF05062A LF05062A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.71	94	5.00	4.88	98	3	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.889	89	1.00	0.842	84	40-130
Hexacosane	0.250	0.232	93	0.250	0.226	90	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.    : 12E244                             Date Extracted: 06/05/12 09:51
Sample ID:   SL-544-SA5C-SB-0.0-0.5              Date Analyzed: 06/06/12 12:07
Lab Samp ID: E244-02                              Dilution Factor: 1
Lab File ID: LF05085A                             Matrix          : SOIL
Ext Btch ID: DSF004S                               % Moisture     : 8.2
Calib. Ref.: LF05074A                             Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.5	108.9	70.2	50-150
HEXACOSANE	19.8	27.23	72.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/05/12 09:51
Sample ID    : SL-544-SA5C-SB-5.0-6.0          Date Analyzed: 06/06/12 12:58
Lab Samp ID  : E244-03                          Dilution Factor: 1
Lab File ID  : LF05088A                        Matrix          : SOIL
Ext Btch ID  : DSF004S                         % Moisture     : 13.4
Calib. Ref.  : LF05086A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	84.1	115.5	72.8	50-150
HEXACOSANE	21.9	28.87	76.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/05/12 09:51
Sample ID    : SL-550-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 14:56
Lab Samp ID  : E244-05                           Dilution Factor: 1
Lab File ID  : LF05095A                         Matrix          : SOIL
Ext Btch ID  : DSF004S                          % Moisture     : 7.7
Calib. Ref. : LF05086A                         Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	13	5.4	2.7
EFH(C30-C40)	33	11	5.4
TOTAL EFH(C8-C40)	46	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.2	108.3	72.2	50-150
HEXACOSANE	22.1	27.09	81.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/05/12 09:51
Sample ID    : SL-560-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 15:13
Lab Samp ID  : E244-06T                         Dilution Factor: 10
Lab File ID  : LF05096A                        Matrix          : SOIL
Ext Btch ID  : DSF004S                          % Moisture     : 13.8
Calib. Ref. : LF05086A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	58	29
EFH(C12-C14)	ND	58	29
EFH(C15-C20)	ND	58	29
EFH(C21-C30)	110	58	29
EFH(C30-C40)	280	120	58
TOTAL EFH(C8-C40)	390	58	29

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.6	116.0	66.0	50-150
HEXACOSANE	24.1	29.00	83.2	50-150

RL : Reporting Limit  
 DO : Diluted Out

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/05/12 09:51
Sample ID   : SL-560-SA5C-SB-6.5-7.5          Date Analyzed: 06/06/12 14:22
Lab Samp ID : E244-07                           Dilution Factor: 1
Lab File ID : LF05093A                         Matrix          : SOIL
Ext Btch ID : DSF004S                          % Moisture     : 9.6
Calib. Ref. : LF05086A                         Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.3	110.6	71.7	50-150
HEXACOSANE	20.7	27.65	74.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/05/12 09:51
Sample ID:   SL-752-SA5C-SB-0.0-0.5           Date Analyzed: 06/06/12 13:15
Lab Samp ID: E244-09                            Dilution Factor: 1
Lab File ID: LF05089A                          Matrix          : SOIL
Ext Btch ID: DSF004S                            % Moisture     : 13.2
Calib. Ref.: LF05086A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	84.6	115.2	73.4	50-150
HEXACOSANE	22.0	28.80	76.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/05/12 09:51
Sample ID    : SL-621-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 14:39
Lab Samp ID  : E244-10                           Dilution Factor: 1
Lab File ID  : LF05094A                          Matrix          : SOIL
Ext Btch ID  : DSF004S                            % Moisture     : 8.1
Calib. Ref.  : LF05086A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	23	5.4	2.7
EFH(C30-C40)	27	11	5.4
TOTAL EFH(C8-C40)	50	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.9	108.8	72.5	50-150
HEXACOSANE	24.2	27.20	88.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12E244                             Date Extracted: 06/05/12 09:51
Sample ID    : MBLK1S                             Date Analyzed: 06/06/12 11:50
Lab Samp ID  : DSF004SB                           Dilution Factor: 1
Lab File ID  : LF05084A                           Matrix          : SOIL
Ext Btch ID  : DSF004S                             % Moisture      : NA
Calib. Ref.  : LF05074A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.7	100.0	73.7	50-150
HEXACOSANE	18.9	25.00	75.7	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF004SB DSF004SL DSF004SC  
LAB FILE ID: LF05084A LF05082A LF05083A  
DATE EXTRACTED: 06/05/1209:51 06/05/1209:51 06/05/1209:51 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1211:50 06/06/1210:38 06/06/1211:33 DATE RECEIVED: 06/05/12  
PREP. BATCH: DSF004S DSF004S DSF004S  
CALIB. REF: LF05074A LF05074A LF05074A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	414	83	500	449	90	8	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	77.7	78	100	81.2	81	50-150
Hexacosane	25.0	19.6	78	25.0	20.2	81	50-150

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.    : 12E244                             Date Extracted: 06/04/12 12:15
Sample ID    : EB-053012                          Date Analyzed: 06/07/12 15:44
Lab Samp ID  : E244-01                             Dilution Factor: 1.02
Lab File ID  : SF07014A                           Matrix          : WATER
Ext Btch ID  : CPF003W                             % Moisture     : NA
Calib. Ref.  : SF07008A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.51   0.51
AROCLOR 1221	(ND)   ND	1.0	0.51   0.51
AROCLOR 1232	(ND)   ND	1.0	0.51   0.51
AROCLOR 1242	(ND)   ND	1.0	0.51   0.51
AROCLOR 1248	(ND)   ND	1.0	0.51   0.51
AROCLOR 1254	(ND)   ND	1.0	0.51   0.51
AROCLOR 1260	(ND)   ND	1.0	0.51   0.51
AROCLOR 1262	(ND)   ND	1.0	0.51   0.51
AROCLOR 1268	(ND)   ND	1.0	0.51   0.51
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	0.3754   (0.3872)	0.4080	92.0   (94.9)	45-120
TETRACHLORO-M-XYLENE	0.3038   (0.3164)	0.4080	74.4   (77.5)	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/04/12
Batch No.    : 12E244                             Date Extracted: 06/04/12 12:15
Sample ID    : MBLK1W                             Date Analyzed: 06/07/12 14:01
Lab Samp ID  : 60F003WB                           Dilution Factor: 1
Lab File ID  : SF07011A                           Matrix          : WATER
Ext Btch ID  : CPF003W                             % Moisture      : NA
Calib. Ref.  : SF07008A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	0.3098   (0.3237)	0.4000	77.4   (80.9)	45-120
TETRACHLORO-M-XYLENE	(0.2779)   0.2671	0.4000	(69.5)   66.8	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: 60F003WB 60F003WL 60F003WC  
LAB FILE ID: SF07011A SF07012A SF07013A  
DATE EXTRACTED: 06/04/1212:15 06/04/1212:15 06/04/1212:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1214:01 06/07/1214:36 06/07/1215:10 DATE RECEIVED: 06/04/12  
PREP. BATCH: CPF003W CPF003W CPF003W  
CALIB. REF: SF07008A SF07008A SF07008A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	4.40   (4.71)	88   (94)	5.00	(4.26)   4.18	(85)   84	(3)   12	50-130	30
Aroclor 1260	(ND)   ND	5.00	(5.04)   4.98	(101)   100	5.00	(4.76)   4.72	(95)   94	(6)   5	60-150	30
Aroclor 5460	(ND)   ND	2.50	(2.94)   2.83	(118)   113	2.50	(2.82)   2.71	(113)   108	(4)   4	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	0.3495   (0.3657)	87.4   (91.4)	0.4000	0.3476   (0.3620)	86.9   (90.5)	45-120
Tetrachloro-m-xylene	0.4000	(0.3330)   0.3291	(83.3)   82.3	0.4000	(0.3215)   0.3065	(80.4)   76.6	30-140

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/05/12 16:15
Sample ID    : SL-544-SA5C-SB-0.0-0.5          Date Analyzed: 06/07/12 18:36
Lab Samp ID  : E244-02                           Dilution Factor: 1
Lab File ID  : SF07019A                         Matrix          : SOIL
Ext Btch ID  : CPF004S                          % Moisture     : 8.2
Calib. Ref.  : SF07008A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.30   (11.64)	14.52	77.8   (80.2)	45-120
TETRACHLORO-M-XYLENE	(10.89)   9.881	14.52	(75.0)   68.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/05/12 16:15
Sample ID    : SL-544-SA5C-SB-5.0-6.0          Date Analyzed: 06/07/12 19:10
Lab Samp ID  : E244-03                           Dilution Factor: 1
Lab File ID  : SF07020A                         Matrix          : SOIL
Ext Btch ID  : CPF004S                           % Moisture     : 13.4
Calib. Ref.  : SF07008A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.81   (12.12)	15.39	76.7   (78.7)	45-120
TETRACHLORO-M-XYLENE	(10.05)   9.342	15.39	(65.3)   60.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/30/12
Project    : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.  : 12E244                             Date Extracted: 06/05/12 16:15
Sample ID  : SL-550-SA5C-SB-0.0-0.5            Date Analyzed: 06/07/12 19:44
Lab Samp ID: E244-05                             Dilution Factor: 1
Lab File ID: SF07021A                           Matrix          : SOIL
Ext Btch ID: CPF004S                             % Moisture     : 7.7
Calib. Ref.: SF07008A                           Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	10.18   (11.19)	14.44	70.5   (77.5)	45-120
TETRACHLORO-M-XYLENE	(12.19)   11.02	14.44	(84.4)   76.3	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/05/12 16:15
Sample ID    : SL-560-SA5C-SB-0.0-0.5          Date Analyzed: 06/07/12 20:18
Lab Samp ID  : E244-06                           Dilution Factor: 1
Lab File ID  : SF07022A                         Matrix          : SOIL
Ext Btch ID  : CPF004S                          % Moisture     : 13.8
Calib. Ref.  : SF07008A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	8.984   (9.694)	15.46	58.1   (62.7)	45-120
TETRACHLORO-M-XYLENE	(12.33)   11.42	15.46	(79.8)   73.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/05/12 16:15
Sample ID:   SL-560-SA5C-SB-6.5-7.5           Date Analyzed: 06/07/12 20:52
Lab Samp ID: E244-07                            Dilution Factor: 1
Lab File ID: SF07023A                          Matrix          : SOIL
Ext Btch ID: CPF004S                            % Moisture     : 9.6
Calib. Ref.: SF07008A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(11.16)   10.76	14.75	(75.7)   73.0	45-120
TETRACHLORO-M-XYLENE	(11.90)   10.61	14.75	(80.7)   71.9	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 05/30/12
Project    : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.  : 12E244                             Date Extracted: 06/05/12 16:15
Sample ID  : SL-752-SA5C-SB-0.0-0.5           Date Analyzed: 06/07/12 21:27
Lab Samp ID: E244-09                           Dilution Factor: 1
Lab File ID: SF07024A                          Matrix          : SOIL
Ext Btch ID: CPF004S                            % Moisture     : 13.2
Calib. Ref.: SF07008A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.69)   12.66	15.36	(82.6)   82.5	45-120
TETRACHLORO-M-XYLENE	(12.94)   11.27	15.36	(84.3)   73.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E244                           Date Extracted: 06/05/12 16:15
Sample ID:   SL-621-SA5C-SB-0.0-0.5           Date Analyzed: 06/07/12 22:01
Lab Samp ID: E244-10                           Dilution Factor: 1
Lab File ID: SF07025A                          Matrix          : SOIL
Ext Btch ID: CPF004S                            % Moisture     : 8.1
Calib. Ref.: SF07008A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	9.123   (9.975)	14.50	62.9   (68.8)	45-120
TETRACHLORO-M-XYLENE	(11.09)   10.34	14.50	(76.5)   71.3	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.  : 12E244                             Date Extracted: 06/05/12 16:15
Sample ID  : MBLK1S                             Date Analyzed: 06/07/12 16:53
Lab Samp ID: 60F004SB                           Dilution Factor: 1
Lab File ID: SF07016A                           Matrix          : SOIL
Ext Btch ID: CPF004S                             % Moisture     : NA
Calib. Ref.: SF07008A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.75   (12.08)	13.33	88.1   (90.6)	45-120
TETRACHLORO-M-XYLENE	(11.70)   10.63	13.33	(87.8)   79.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F004SB 60F004SL 60F004SC  
LAB FILE ID: SF07016A SF07017A SF07018A  
DATE EXTRACTED: 06/05/1216:15 06/05/1216:15 06/05/1216:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1216:53 06/07/1217:27 06/07/1218:01 DATE RECEIVED: 06/05/12  
PREP. BATCH: CPF004S CPF004S CPF004S  
CALIB. REF: SF07008A SF07008A SF07008A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(138)   138	(83)   83	167	(138)   136	(83)   82	(0)   1	50-130	50
Aroclor 1260	(ND)   ND	167	(155)   151	(93)   91	167	(159)   152	(95)   91	(3)   1	60-150	50
Aroclor 5460	(ND)   ND	83.3	(90.0)   86.3	(108)   104	83.3	(87.1)   83.5	(104)   100	(3)   4	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	10.89   (11.42)	81.7   (85.7)	13.33	10.73   (11.24)	80.5   (84.3)	45-120
Tetrachloro-m-xylene	13.33	(10.37)   9.708	(77.8)   72.8	13.33	(9.992)   9.220	(75.0)   69.2	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/30/12
Project    : SSFL PHASE 3                     Date Received: 05/30/12
SDG NO.    : 12E244                           Date Extracted: 06/05/12 11:00
Sample ID: EB-053012                          Date Analyzed: 06/06/12 17:33
Lab Samp ID: E244-01                          Dilution Factor: 1
Lab File ID: 98F03056                         Matrix          : WATER
Ext Btch ID: IMF009W                           % Moisture     : NA
Calib. Ref.: 98F03049                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00535J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	0.0269J	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.     : 12E244                           Date Extracted: 06/05/12 11:00
Sample ID   : MBLK1W                            Date Analyzed: 06/06/12 17:10
Lab Samp ID : IMF009WB                         Dilution Factor: 1
Lab File ID : 98F03051                        Matrix          : WATER
Ext Btch ID : IMF009W                          % Moisture     : NA
Calib. Ref. : 98F03049                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E244  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMF009WB IMF009WL IMF009WC  
LAB FILE ID: 98F03051 98F03052 98F03053  
DATIME EXTRACTD: 06/05/1211:00 06/05/1211:00 06/05/1211:00 DATE COLLECTED: NA  
DATIME ANALYZD: 06/06/1217:10 06/06/1217:15 06/06/1217:19 DATE RECEIVED: 06/05/12  
PREP. BATCH: IMF009W IMF009W IMF009W  
CALIB. REF: 98F03049 98F03049 98F03049

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.68	107	2.50	2.61	104	3	80-120	20
Antimony	ND	0.0250	0.0257	103	0.0250	0.0249	100	3	80-120	20
Arsenic	ND	0.0250	0.0257	103	0.0250	0.0252	101	2	80-120	20
Barium	ND	0.0250	0.0256	102	0.0250	0.0251	100	2	80-120	20
Beryllium	ND	0.0250	0.0247	99	0.0250	0.0246	98	1	80-120	20
Boron	ND	0.0250	0.0256	102	0.0250	0.0254	102	1	80-120	20
Cadmium	ND	0.0250	0.0251	101	0.0250	0.0245	98	2	80-120	20
Calcium	ND	2.50	2.73	109	2.50	2.72	109	0	80-120	20
Chromium	ND	0.0250	0.0245	98	0.0250	0.0240	96	2	80-120	20
Cobalt	ND	0.0250	0.0251	100	0.0250	0.0243	97	3	80-120	20
Copper	ND	0.0250	0.0243	97	0.0250	0.0240	96	1	80-120	20
Iron	ND	2.50	2.55	102	2.50	2.55	102	0	80-120	20
Lead	ND	0.0250	0.0245	98	0.0250	0.0241	97	2	80-120	20
Magnesium	ND	2.50	2.72	109	2.50	2.62	105	4	80-120	20
Manganese	ND	0.0250	0.0257	103	0.0250	0.0246	98	5	80-120	20
Molybdenum	ND	0.0250	0.0251	100	0.0250	0.0245	98	2	80-120	20
Nickel	ND	0.0250	0.0245	98	0.0250	0.0239	96	2	80-120	20
Potassium	ND	2.50	2.66	107	2.50	2.63	105	1	80-120	20
Selenium	ND	0.0250	0.0252	101	0.0250	0.0244	98	3	80-120	20
Silver	ND	0.0250	0.0257	103	0.0250	0.0249	100	3	80-120	20
Sodium	ND	2.50	2.65	106	2.50	2.62	105	1	80-120	20
Strontium	ND	0.0250	0.0255	102	0.0250	0.0250	100	2	80-120	20
Thallium	ND	0.0250	0.0251	101	0.0250	0.0250	100	1	80-120	20
Tin	ND	0.0250	0.0258	103	0.0250	0.0252	101	2	80-120	20
Titanium	ND	0.0250	0.0264	106	0.0250	0.0255	102	4	80-120	20
Vanadium	ND	0.0250	0.0247	99	0.0250	0.0242	97	2	80-120	20
Zinc	ND	0.0500	0.0504	101	0.0500	0.0498	100	1	80-120	20
Lithium	ND	0.0250	0.0246	98	0.0250	0.0245	98	0	80-120	20
Phosphorus	ND	0.250	0.289	115	0.250	0.261	104	10	80-120	20
Zirconium	ND	0.0250	0.0251	101	0.0250	0.0246	98	2	80-120	20

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                     Date Received: 05/30/12
SDG NO.    : 12E244                           Date Extracted: 06/07/12 10:30
Sample ID:  SL-544-SA5C-SB-0.0-0.5           Date Analyzed: 06/08/12 17:59
Lab Samp ID: E244-02                          Dilution Factor: 0.957
Lab File ID: 98F05045                         Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : 8.2
Calib. Ref.: 98F05041                         Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8530	104	12.5
Antimony	0.235J	0.521	0.104
Arsenic	4.50	0.521	0.208
Barium	68.2	0.521	0.208
Beryllium	0.321J	0.521	0.0521
Boron	ND	5.21	2.61
Cadmium	0.104J	0.521	0.0521
Calcium	3180	20.8	10.4
Chromium	15.9	0.521	0.208
Cobalt	3.58	0.521	0.0521
Copper	7.94	0.521	0.208
Iron	16300	104	10.4
Lead	3.79	0.521	0.104
Magnesium	3720	10.4	5.21
Manganese	145	0.521	0.261
Molybdenum	0.429J	0.521	0.0521
Nickel	7.34	0.521	0.208
Potassium	1350	104	31.3
Selenium	ND	0.521	0.208
Silver	ND	0.521	0.0521
Sodium	242	104	52.1
Strontium	25.5	0.521	0.261
Thallium	0.243J	0.417	0.0521
Tin	ND	10.4	5.21
Titanium	776	1.04	0.521
Vanadium	27.7	0.521	0.0521
Zinc	42.3	5.21	1.56
Lithium	15.8	2.08	1.04
Phosphorus	327	12.5	6.25
Zirconium	ND	5.21	2.61

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                     Date Received: 05/30/12
SDG NO.    : 12E244                           Date Extracted: 06/07/12 10:30
Sample ID:  SL-544-SA5C-SB-5.0-6.0           Date Analyzed: 06/08/12 18:04
Lab Samp ID: E244-03                          Dilution Factor: 0.971
Lab File ID: 98F05046                         Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : 13.4
Calib. Ref.: 98F05041                         Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17600	112	13.5
Antimony	0.287J	0.561	0.112
Arsenic	9.03	0.561	0.224
Barium	144	0.561	0.224
Beryllium	1.31	0.561	0.0561
Boron	ND	5.61	2.80
Cadmium	0.464J	0.561	0.0561
Calcium	6940	22.4	11.2
Chromium	29.6	0.561	0.224
Cobalt	11.1	0.561	0.0561
Copper	26.6	0.561	0.224
Iron	37400	112	11.2
Lead	13.7	0.561	0.112
Magnesium	8210	11.2	5.61
Manganese	767	0.561	0.280
Molybdenum	0.493J	0.561	0.0561
Nickel	28.6	0.561	0.224
Potassium	2890	112	33.6
Selenium	ND	0.561	0.224
Silver	0.0882J	0.561	0.0561
Sodium	570	112	56.1
Strontium	53.3	0.561	0.280
Thallium	0.503	0.448	0.0561
Tin	ND	11.2	5.61
Titanium	698	1.12	0.561
Vanadium	47.4	0.561	0.0561
Zinc	98.0	5.61	1.68
Lithium	40.2	2.24	1.12
Phosphorus	732	13.5	6.73
Zirconium	ND	5.61	2.80

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                     Date Received: 05/30/12
SDG NO.    : 12E244                           Date Extracted: 06/07/12 10:30
Sample ID: SL-550-SA5C-SB-0.0-0.5             Date Analyzed: 06/08/12 18:08
Lab Samp ID: E244-05                           Dilution Factor: 0.985
Lab File ID: 98F05047                          Matrix          : SOIL
Ext Btch ID: IMF015S                           % Moisture     : 7.7
Calib. Ref.: 98F05041                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11100	107	12.8
Antimony	4.23	0.534	0.107
Arsenic	5.49	0.534	0.213
Barium	87.3	0.534	0.213
Beryllium	0.530J	0.534	0.0534
Boron	ND	5.34	2.67
Cadmium	0.210J	0.534	0.0534
Calcium	3900	21.3	10.7
Chromium	20.2	0.534	0.213
Cobalt	7.16	0.534	0.0534
Copper	10.8	0.534	0.213
Iron	21700	107	10.7
Lead	68.3	0.534	0.107
Magnesium	5280	10.7	5.34
Manganese	317	0.534	0.267
Molybdenum	0.911	0.534	0.0534
Nickel	14.5	0.534	0.213
Potassium	2480	107	32.0
Selenium	ND	0.534	0.213
Silver	ND	0.534	0.0534
Sodium	127	107	53.4
Strontium	24.5	0.534	0.267
Thallium	0.264J	0.427	0.0534
Tin	ND	10.7	5.34
Titanium	931	1.07	0.534
Vanadium	35.8	0.534	0.0534
Zinc	67.6	5.34	1.60
Lithium	26.8	2.13	1.07
Phosphorus	437	12.8	6.40
Zirconium	ND	5.34	2.67

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/30/12
Project      : SSFL PHASE 3                     Date Received: 05/30/12
SDG NO.     : 12E244                            Date Extracted: 06/07/12 10:30
Sample ID   : SL-560-SA5C-SB-0.0-0.5          Date Analyzed: 06/08/12 18:15
Lab Samp ID : E244-06                           Dilution Factor: 1.00
Lab File ID : 98F05048                          Matrix          : SOIL
Ext Btch ID : IMF015S                            % Moisture     : 13.8
Calib. Ref. : 98F05041                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14300	116	13.9
Antimony	0.640	0.580	0.116
Arsenic	3.77	0.580	0.232
Barium	143	0.580	0.232
Beryllium	0.694	0.580	0.0580
Boron	ND	5.80	2.90
Cadmium	0.265J	0.580	0.0580
Calcium	5220	23.2	11.6
Chromium	18.6	0.580	0.232
Cobalt	5.97	0.580	0.0580
Copper	9.81	0.580	0.232
Iron	19400	116	11.6
Lead	8.13	0.580	0.116
Magnesium	4100	11.6	5.80
Manganese	269	0.580	0.290
Molybdenum	0.486J	0.580	0.0580
Nickel	12.1	0.580	0.232
Potassium	2030	116	34.8
Selenium	ND	0.580	0.232
Silver	ND	0.580	0.0580
Sodium	104J	116	58.0
Strontium	30.8	0.580	0.290
Thallium	0.232J	0.464	0.0580
Tin	ND	11.6	5.80
Titanium	515	1.16	0.580
Vanadium	35.5	0.580	0.0580
Zinc	50.1	5.80	1.74
Lithium	13.6	2.32	1.16
Phosphorus	135	13.9	6.96
Zirconium	ND	5.80	2.90

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/30/12
Project    : SSFL PHASE 3                       Date Received: 05/30/12
SDG NO.    : 12E244                             Date Extracted: 06/07/12 10:30
Sample ID  : SL-560-SA5C-SB-6.5-7.5           Date Analyzed: 06/08/12 18:20
Lab Samp ID: E244-07                           Dilution Factor: 0.962
Lab File ID: 98F05049                          Matrix          : SOIL
Ext Btch ID: IMF015S                            % Moisture     : 9.6
Calib. Ref.: 98F05041                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12000	106	12.8
Antimony	0.192J	0.532	0.106
Arsenic	4.72	0.532	0.213
Barium	68.5	0.532	0.213
Beryllium	0.514J	0.532	0.0532
Boron	ND	5.32	2.66
Cadmium	0.109J	0.532	0.0532
Calcium	2920	21.3	10.6
Chromium	16.0	0.532	0.213
Cobalt	5.55	0.532	0.0532
Copper	7.69	0.532	0.213
Iron	18900	106	10.6
Lead	4.72	0.532	0.106
Magnesium	3880	10.6	5.32
Manganese	188	0.532	0.266
Molybdenum	0.277J	0.532	0.0532
Nickel	10.4	0.532	0.213
Potassium	1630	106	31.9
Selenium	ND	0.532	0.213
Silver	ND	0.532	0.0532
Sodium	236	106	53.2
Strontium	24.0	0.532	0.266
Thallium	0.216J	0.426	0.0532
Tin	ND	10.6	5.32
Titanium	812	1.06	0.532
Vanadium	29.4	0.532	0.0532
Zinc	43.6	5.32	1.60
Lithium	18.1	2.13	1.06
Phosphorus	301	12.8	6.38
Zirconium	ND	5.32	2.66

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                     Date Received: 05/30/12
SDG NO.    : 12E244                           Date Extracted: 06/07/12 10:30
Sample ID:  SL-752-SA5C-SB-0.0-0.5           Date Analyzed: 06/08/12 18:24
Lab Samp ID: E244-09                          Dilution Factor: 0.990
Lab File ID: 98F05050                         Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : 13.2
Calib. Ref.: 98F05041                         Instrument ID  : T-198
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14100	114	13.7
Antimony	0.214J	0.570	0.114
Arsenic	4.17	0.570	0.228
Barium	94.3	0.570	0.228
Beryllium	0.585	0.570	0.0570
Boron	ND	5.70	2.85
Cadmium	0.112J	0.570	0.0570
Calcium	2740	22.8	11.4
Chromium	16.5	0.570	0.228
Cobalt	6.93	0.570	0.0570
Copper	6.27	0.570	0.228
Iron	18900	114	11.4
Lead	5.95	0.570	0.114
Magnesium	3510	11.4	5.70
Manganese	187	0.570	0.285
Molybdenum	0.287J	0.570	0.0570
Nickel	8.09	0.570	0.228
Potassium	1390	114	34.2
Selenium	ND	0.570	0.228
Silver	ND	0.570	0.0570
Sodium	184	114	57.0
Strontium	27.8	0.570	0.285
Thallium	0.214J	0.456	0.0570
Tin	ND	11.4	5.70
Titanium	748	1.14	0.570
Vanadium	33.0	0.570	0.0570
Zinc	33.7	5.70	1.71
Lithium	15.3	2.28	1.14
Phosphorus	62.3	13.7	6.84
Zirconium	ND	5.70	2.85

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/30/12
Project    : SSFL PHASE 3                     Date Received: 05/30/12
SDG NO.    : 12E244                           Date Extracted: 06/07/12 10:30
Sample ID: SL-621-SA5C-SB-0.0-0.5           Date Analyzed: 06/08/12 18:29
Lab Samp ID: E244-10                          Dilution Factor: 0.971
Lab File ID: 98F05051                        Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : 8.1
Calib. Ref.: 98F05041                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12400	106	12.7
Antimony	0.313J	0.528	0.106
Arsenic	9.76	0.528	0.211
Barium	96.9	0.528	0.211
Beryllium	0.587	0.528	0.0528
Boron	ND	5.28	2.64
Cadmium	0.329J	0.528	0.0528
Calcium	22600	21.1	10.6
Chromium	19.0	0.528	0.211
Cobalt	7.69	0.528	0.0528
Copper	13.6	0.528	0.211
Iron	22900	106	10.6
Lead	8.25	0.528	0.106
Magnesium	5340	10.6	5.28
Manganese	301	0.528	0.264
Molybdenum	8.51	0.528	0.0528
Nickel	14.4	0.528	0.211
Potassium	2590	106	31.7
Selenium	0.508J	0.528	0.211
Silver	ND	0.528	0.0528
Sodium	241	106	52.8
Strontium	54.8	0.528	0.264
Thallium	0.266J	0.423	0.0528
Tin	ND	10.6	5.28
Titanium	839	1.06	0.528
Vanadium	34.3	0.528	0.0528
Zinc	67.0	5.28	1.58
Lithium	31.6	2.11	1.06
Phosphorus	612	12.7	6.34
Zirconium	ND	5.28	2.64

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12E244                           Date Extracted: 06/07/12 10:30
Sample ID:  MBLK1S                             Date Analyzed: 06/08/12 16:01
Lab Samp ID: IMF015SB                         Dilution Factor: 1
Lab File ID: 98F05019                         Matrix          : SOIL
Ext Btch ID: IMF015S                           % Moisture     : NA
Calib. Ref.: 98F05017                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E244  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF015SB IMF015SL IMF015SC  
LAB FILE ID: 98F05019 98F05031 98F05032  
DATIME EXTRACTD: 06/07/1210:30 06/07/1210:30 06/07/1210:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/08/1216:01 06/08/1216:55 06/08/1217:00 DATE RECEIVED: 06/07/12  
PREP. BATCH: IMF015S IMF015S IMF015S  
CALIB. REF: 98F05017 98F05029 98F05029

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2460	98	2500	2420	97	2	80-120	20
Antimony	ND	25.0	25.0	100	25.0	24.9	100	0	80-120	20
Arsenic	ND	25.0	24.3	97	25.0	24.2	97	0	80-120	20
Barium	ND	25.0	24.8	99	25.0	24.6	99	1	80-120	20
Beryllium	ND	25.0	25.8	103	25.0	25.5	102	1	80-120	20
Boron	ND	25.0	26.7	107	25.0	26.2	105	2	80-120	20
Cadmium	ND	25.0	24.3	97	25.0	24.2	97	1	80-120	20
Calcium	ND	2500	2630	105	2500	2640	106	0	80-120	20
Chromium	ND	25.0	24.4	98	25.0	24.5	98	0	80-120	20
Cobalt	ND	25.0	24.7	99	25.0	24.4	98	1	80-120	20
Copper	ND	25.0	24.2	97	25.0	24.2	97	0	80-120	20
Iron	ND	2500	2550	102	2500	2570	103	1	80-120	20
Lead	ND	25.0	24.9	100	25.0	24.5	98	2	80-120	20
Magnesium	ND	2500	2440	98	2500	2410	96	2	80-120	20
Manganese	ND	25.0	24.9	100	25.0	24.7	99	1	80-120	20
Molybdenum	ND	25.0	24.1	96	25.0	24.2	97	0	80-120	20
Nickel	ND	25.0	24.2	97	25.0	24.2	97	0	80-120	20
Potassium	ND	2500	2630	105	2500	2630	105	0	80-120	20
Selenium	ND	25.0	23.9	96	25.0	24.0	96	0	80-120	20
Silver	ND	25.0	24.3	97	25.0	24.2	97	0	80-120	20
Sodium	ND	2500	2540	102	2500	2560	102	1	80-120	20
Strontium	ND	25.0	24.9	100	25.0	24.7	99	1	80-120	20
Thallium	ND	25.0	24.8	99	25.0	24.5	98	1	80-120	20
Tin	ND	25.0	26.7	107	25.0	26.8	107	0	80-120	20
Titanium	ND	25.0	24.7	99	25.0	24.6	98	0	80-120	20
Vanadium	ND	25.0	24.4	98	25.0	24.3	97	0	80-120	20
Zinc	ND	50.0	47.6	95	50.0	47.9	96	1	80-120	20
Lithium	ND	25.0	25.2	101	25.0	25.4	101	1	80-120	20
Phosphorus	ND	250	235	94	250	232	93	1	80-120	20
Zirconium	ND	25.0	23.0	92	25.0	23.5	94	2	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E244  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.2  
DILTN FACTR: 0.939 0.939  
SAMPLE ID: SL-612-SA5C-SB-4.0-5.0  
CONTROL NO.: E267-18 E267-18A  
LAB FILE ID: 98F05025 98F05024  
DATIME EXTRACTD: 06/07/1210:30 06/07/1210:30 DATE COLLECTED: 05/31/12  
DATIME ANALYZD: 06/08/1216:28 06/08/1216:23 DATE RECEIVED: 05/31/12  
PREP. BATCH: IMF015S IMF015S  
CALIB. REF: 98F05017 98F05017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	11700	2530	14100	95	75-125
Antimony	0.331J	25.3	25.4	99	75-125
Arsenic	6.20	25.3	29.1	91	75-125
Barium	113	25.3	137	94	75-125
Beryllium	0.822	25.3	26.9	103	75-125
Boron	ND	25.3	28.3	112	75-125
Cadmium	0.227J	25.3	24.4	96	75-125
Calcium	6370	2530	8940	102	75-125
Chromium	20.4	25.3	42.9	89	75-125
Cobalt	8.11	25.3	31.3	92	75-125
Copper	12.1	25.3	34.1	87	75-125
Iron	23300	2530	25400	86	75-125
Lead	13.1	25.3	37.5	97	75-125
Magnesium	4750	2530	7060	91	75-125
Manganese	220	25.3	244	95	75-125
Molybdenum	0.453J	25.3	24.9	97	75-125
Nickel	13.6	25.3	35.7	87	75-125
Potassium	2100	2530	4620	99	75-125
Selenium	ND	25.3	23.8	94	75-125
Silver	ND	25.3	24.0	95	75-125
Sodium	314	2530	2640	92	75-125
Strontium	33.6	25.3	57.5	95	75-125
Thallium	0.269J	25.3	24.4	95	75-125
Tin	ND	25.3	27.8	110	75-125
Titanium	783	25.3	811	112	75-125
Vanadium	37.2	25.3	59.8	89	75-125
Zinc	74.5	50.6	123	95	75-125
Lithium	24.0	25.3	49.7	101	75-125
Phosphorus	355	253	584	91	75-125
Zirconium	ND	25.3	24.2	95	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E244  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.2  
 DILUTION FACTOR: 0.939 4.69  
 SAMPLE ID: SL-612-SA5C-SB SL-612-SA5C-SB  
 EMAX SAMP ID: E267-18 E267-18J  
 LAB FILE ID: 98F05025 98F05026  
 DATE EXTRACTED: 06/07/1210:30 06/07/1210:30 DATE COLLECTED: 05/31/12  
 DATE ANALYZED: 06/08/1216:28 06/08/1216:32 DATE RECEIVED: 05/31/12  
 PREP. BATCH: IMF015S IMF015S  
 CALIB. REF: 98F05017 98F05017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	11700	12400	6	10
Antimony	0.331J	ND	NA	10
Arsenic	6.20	6.56	6	10
Barium	113	107	5	10
Beryllium	0.822	0.832J	NA	10
Boron	ND	ND	0	10
Cadmium	0.227J	ND	NA	10
Calcium	6370	6710	5	10
Chromium	20.4	21.6	6	10
Cobalt	8.11	8.72	7	10
Copper	12.1	13.1	8	10
Iron	23300	24700	6	10
Lead	13.1	13.2	1	10
Magnesium	4750	5010	5	10
Manganese	220	237	8	10
Molybdenum	0.453J	0.462J	NA	10
Nickel	13.6	14.6	7	10
Potassium	2100	2180	4	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	314	334J	NA	10
Strontium	33.6	32.7	3	10
Thallium	0.269J	0.275J	NA	10
Tin	ND	ND	0	10
Titanium	783	808	3	10
Vanadium	37.2	38.8	4	10
Zinc	74.5	76.9	3	10
Lithium	24.0	22.9	5	10
Phosphorus	355	347	2	10
Zirconium	ND	ND	0	10

METHOD 7470A  
 MERCURY BY COLD VAPOR

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E244  
 =====

Matrix : WATER  
 Instrument ID : TI047  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGF004WB	ND	1	NA	0.000500	0.000100	06/05/1219:05	06/05/1215:45	M47F003010	M47F003008	HGF004W	NA	06/05/12
LCS1W	HGF004WL	0.00508	1	NA	0.000500	0.000100	06/05/1219:07	06/05/1215:45	M47F003011	M47F003008	HGF004W	NA	06/05/12
LCD1W	HGF004WC	0.00504	1	NA	0.000500	0.000100	06/05/1219:09	06/05/1215:45	M47F003012	M47F003008	HGF004W	NA	06/05/12
EB-053012	E244-01	ND	1	NA	0.000500	0.000100	06/05/1219:24	06/05/1215:45	M47F003019	M47F003008	HGF004W	05/30/12	05/30/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E244  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGF004WB HGF004WL HGF004WC  
LAB FILE ID: M47F003010 M47F003011 M47F003012  
DATIME EXTRCTD: 06/05/1215:45 06/05/1215:45 06/05/1215:45 DATE COLLECTED: NA  
DATIME ANALYZD: 06/05/1219:05 06/05/1219:07 06/05/1219:09 DATE RECEIVED: 06/05/12  
PREP. BATCH: HGF004W HGF004W HGF004W  
CALIB. REF: M47F003008 M47F003008 M47F003008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00508	102	.005	.00504	101	1	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E244  
=====

Matrix : SOIL  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGF003SB	ND	1	NA	0.100	0.0500	06/05/1215:43	06/05/1211:45	M47F002037	M47F002032	HGF003S	NA	06/05/12
LCS1S	HGF003SL	0.892	1	NA	0.100	0.0500	06/05/1215:45	06/05/1211:45	M47F002038	M47F002032	HGF003S	NA	06/05/12
LCD1S	HGF003SC	0.882	1	NA	0.100	0.0500	06/05/1215:47	06/05/1211:45	M47F002039	M47F002032	HGF003S	NA	06/05/12
SL-544-SA5C-SB-0.0-0.5	E244-02	ND	0.992	8.2	0.108	0.0540	06/05/1216:35	06/05/1211:45	M47F002061	M47F002056	HGF003S	05/30/12	05/30/12
SL-544-SA5C-SB-5.0-6.0	E244-03	ND	0.990	13.4	0.114	0.0572	06/05/1216:37	06/05/1211:45	M47F002062	M47F002056	HGF003S	05/30/12	05/30/12
SL-550-SA5C-SB-0.0-0.5	E244-05	ND	0.993	7.7	0.108	0.0538	06/05/1216:39	06/05/1211:45	M47F002063	M47F002056	HGF003S	05/30/12	05/30/12
SL-560-SA5C-SB-0.0-0.5	E244-06	ND	1.01	13.8	0.117	0.0586	06/05/1216:41	06/05/1211:45	M47F002064	M47F002056	HGF003S	05/30/12	05/30/12
SL-560-SA5C-SB-6.5-7.5	E244-07	ND	1.01	9.6	0.112	0.0559	06/05/1216:44	06/05/1211:45	M47F002065	M47F002056	HGF003S	05/30/12	05/30/12
SL-752-SA5C-SB-0.0-0.5	E244-09	ND	1.00	13.2	0.115	0.0576	06/05/1216:46	06/05/1211:45	M47F002066	M47F002056	HGF003S	05/30/12	05/30/12
SL-621-SA5C-SB-0.0-0.5	E244-10	ND	0.992	8.1	0.108	0.0540	06/05/1216:49	06/05/1211:45	M47F002067	M47F002056	HGF003S	05/30/12	05/30/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E244  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF003SB HGF003SL HGF003SC  
LAB FILE ID: M47F002037 M47F002038 M47F002039  
DATIME EXTRCTD: 06/05/1211:45 06/05/1211:45 06/05/1211:45 DATE COLLECTED: NA  
DATIME ANALYZD: 06/05/1215:43 06/05/1215:45 06/05/1215:47 DATE RECEIVED: 06/05/12  
PREP. BATCH: HGF003S HGF003S HGF003S  
CALIB. REF: M47F002032 M47F002032 M47F002032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.892	107	.833	.882	106	1	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E244  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.6  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-704-SA5C-SB-0.0-0.5  
CONTROL NO.: E204-02 E204-02A  
LAB FILE ID: M47F002041 M47F002040  
DATIME EXTRCTD: 06/05/1211:45 06/05/1211:45 DATE COLLECTED: 05/24/12  
DATIME ANALYZD: 06/05/1215:52 06/05/1215:49 DATE RECEIVED: 05/24/12  
PREP. BATCH: HGF003S HGF003S  
CALIB. REF: M47F002032 M47F002032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.927	.989	107	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E244  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.6  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-704-SA5C-SB-0.0- E204-02 SL-704-SA5C-SB-0.0- E204-02J  
 EMAX SAMP ID: E204-02 E204-02J  
 LAB FILE ID: M47F002041 M47F002042  
 DATE EXTRACTED: 06/05/1211:45 06/05/1211:45 DATE COLLECTED: 05/24/12  
 DATE ANALYZED: 06/05/1215:52 06/05/1215:54 DATE RECEIVED: 05/24/12  
 PREP. BATCH: HGF003S HGF003S  
 CALIB. REF: M47F002032 M47F002032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E244  
 =====

Matrix : WATER  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLF001WB	ND	1	NA	0.200	0.100	06/05/1216:32	NA	NF05022	NF05014	PLF001W	NA	NA
LCS1W	PLF001WL	1.04	1	NA	0.200	0.100	06/05/1216:46	NA	NF05023	NF05014	PLF001W	NA	NA
LCD1W	PLF001WC	1.10	1	NA	0.200	0.100	06/05/1217:00	NA	NF05024	NF05014	PLF001W	NA	NA
EB-053012	E244-01	ND	1	NA	0.200	0.100	06/05/1217:42	NA	NF05027	NF05025	PLF001W	05/30/1215:00	05/30/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLF001WB PLF001WL PLF001WC  
LAB FILE ID: NF05022 NF05023 NF05024  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1216:32 06/05/1216:46 06/05/1217:00 DATE RECEIVED: NA  
PREP. BATCH: PLF001W PLF001W PLF001W  
CALIB. REF: NF05014 NF05014 NF05014

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	1.04	104	1.00	1.10	110	6	85-115	20

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E244  
=====

Matrix : SOIL  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLF001SB	ND	1	NA	5.00	2.50	06/05/1211:42	06/05/1210:02	NF05004	NF05003	PLF001S	NA	06/05/12
LCS1S	PLF001SL	26.0	1	NA	5.00	2.50	06/05/1212:31	06/05/1210:02	NF05005	NF05003	PLF001S	NA	06/05/12
LCD1S	PLF001SC	25.0	1	NA	5.00	2.50	06/05/1212:45	06/05/1210:02	NF05006	NF05003	PLF001S	NA	06/05/12
SL-621-SA5C-SB-0.0-0.5	E244-10	ND	1	8.1	5.44	2.72	06/05/1213:42	06/05/1210:02	NF05010	NF05003	PLF001S	05/30/1214:05	05/30/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLF001SB PLF001SL PLF001SC  
LAB FILE ID: NF05004 NF05005 NF05006  
DATE EXTRACTED: 06/05/1210:02 06/05/1210:02 06/05/1210:02 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1211:42 06/05/1212:31 06/05/1212:45 DATE RECEIVED: 06/05/12  
PREP. BATCH: PLF001S PLF001S PLF001S  
CALIB. REF: NF05003 NF05003 NF05003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	26.0	104	25.0	25.0	100	4	85-115	20

METHOD 7199  
 HEXAVALENT CHROMIUM

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E244

Matrix : WATER  
 Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCE035WB	ND	1	NA	0.200	0.100	05/30/1220:18	NA	IE30014	IE30012	HCE035W	NA	NA
MBLK1W	HCE035WQ	ND	1	NA	0.200	0.100	05/30/1220:28	NA	IE30015	IE30012	HCE035W	NA	NA
LCS1W	HCE035WL	1.88	1	NA	0.200	0.100	05/30/1220:39	NA	IE30016	IE30012	HCE035W	NA	NA
LCS1W	HCE035WX	1.97	1	NA	0.200	0.100	05/30/1220:49	NA	IE30017	IE30012	HCE035W	NA	NA
LCD1W	HCE035WC	2.20	1	NA	0.200	0.100	05/30/1221:00	NA	IE30018	IE30012	HCE035W	NA	NA
LCD1W	HCE035WY	2.12	1	NA	0.200	0.100	05/30/1221:10	NA	IE30019	IE30012	HCE035W	NA	NA
EB-053012	E244-01	ND	1	NA	0.200	0.100	05/30/1221:20	NA	IE30020	IE30012	HCE035W	05/30/1215:00	05/30/12
EB-053012	E244-01R	ND	1	NA	0.200	0.100	05/30/1221:31	NA	IE30021	IE30012	HCE035W	05/30/1215:00	05/30/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCE035WB HCE035WL HCE035WC  
LAB FILE ID: IE30014 IE30016 IE30018  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/30/1220:18 05/30/1220:39 05/30/1221:00 DATE RECEIVED: NA  
PREP. BATCH: HCE035W HCE035W HCE035W  
CALIB. REF: IE30012 IE30012 IE30012

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.88	94	2.00	2.20	110	16	80-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCE035WQ HCE035WX HCE035WY  
LAB FILE ID: IE30015 IE30017 IE30019  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/30/1220:28 05/30/1220:49 05/30/1221:10 DATE RECEIVED: NA  
PREP. BATCH: HCE035W HCE035W HCE035W  
CALIB. REF: IE30012 IE30012 IE30012

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.97	99	2.00	2.12	106	7	80-120	20

METHOD 7199  
HEXAVALENT CHROMIUM

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E244

Matrix : SOIL  
Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF MOIST		RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCF003SB	ND	1	NA	1.00	0.500	06/07/1220:58	06/06/1215:35	IF08025	IF08023	HCF003S	NA	06/06/12
MBLK1S	HCF003SQ	ND	1	NA	1.00	0.500	06/07/1221:08	06/06/1215:35	IF08026	IF08023	HCF003S	NA	06/06/12
LCS1S	CSF003SL	10.9	1	NA	1.00	0.500	06/07/1221:19	06/06/1215:35	IF08027	IF08023	HCF003S	NA	06/06/12
LCS1S	CSF003SX	10.7	1	NA	1.00	0.500	06/07/1221:29	06/06/1215:35	IF08028	IF08023	HCF003S	NA	06/06/12
LCS2S	CIF003SL	238	10	NA	10.0	5.00	06/07/1221:39	06/06/1215:35	IF08029	IF08023	HCF003S	NA	06/06/12
LCS2S	CIF003SX	238	10	NA	10.0	5.00	06/07/1221:50	06/06/1215:35	IF08030	IF08023	HCF003S	NA	06/06/12
SL-560-SA5C-SB-0.0-0.5	E244-06	ND	1	13.8	1.16	0.580	06/07/1222:00	06/06/1215:35	IF08031	IF08023	HCF003S	05/30/1210:29	05/30/12
SL-560-SA5C-SB-0.0-0.5	E244-06R	ND	1	13.8	1.16	0.580	06/07/1222:11	06/06/1215:35	IF08032	IF08023	HCF003S	05/30/1210:29	05/30/12
SL-560-SA5C-SB-6.5-7.5	E244-07	ND	1	9.6	1.11	0.553	06/07/1222:21	06/06/1215:35	IF08033	IF08023	HCF003S	05/30/1210:15	05/30/12
SL-560-SA5C-SB-6.5-7.5	E244-07R	ND	1	9.6	1.11	0.553	06/07/1222:31	06/06/1215:35	IF08034	IF08023	HCF003S	05/30/1210:15	05/30/12
SL-752-SA5C-SB-0.0-0.5	E244-09	ND	1	13.2	1.15	0.576	06/07/1223:03	06/06/1215:35	IF08037	IF08035	HCF003S	05/30/1208:28	05/30/12
SL-752-SA5C-SB-0.0-0.5	E244-09R	ND	1	13.2	1.15	0.576	06/07/1223:13	06/06/1215:35	IF08038	IF08035	HCF003S	05/30/1208:28	05/30/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF003SB CSF003SL  
LAB FILE ID: IF08025 IF08027  
DATE EXTRACTED: 06/06/1215:35 06/06/1215:35 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1220:58 06/07/1221:19 DATE RECEIVED: 06/06/12  
PREP. BATCH: HCF003S HCF003S  
CALIB. REF: IF08023 IF08023

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	10.9	109	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF003SQ CSF003SX  
LAB FILE ID: IF08026 IF08028  
DATE EXTRACTED: 06/06/1215:35 06/06/1215:35 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1221:08 06/07/1221:29 DATE RECEIVED: 06/06/12  
PREP. BATCH: HCF003S HCF003S  
CALIB. REF: IF08023 IF08023

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	10.7	107	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF003SB CIF003SL  
LAB FILE ID: IF08025 IF08029  
DATE EXTRACTED: 06/06/1215:35 06/06/1215:35 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1220:58 06/07/1221:39 DATE RECEIVED: 06/06/12  
PREP. BATCH: HCF003S HCF003S  
CALIB. REF: IF08023 IF08023

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	255	238	93	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E244  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF003SQ CIF003SX  
LAB FILE ID: 1F08026 1F08030  
DATE EXTRACTED: 06/06/1215:35 06/06/1215:35 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1221:08 06/07/1221:50 DATE RECEIVED: 06/06/12  
PREP. BATCH: HCF003S HCF003S  
CALIB. REF: 1F08023 1F08023

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	255	238	93	80-120

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E244  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB-053012	E244-01	5.71	1	NA	NA	05/30/1218:51	NA	PHE034W01	NA	PHE034W	05/30/1215:00	05/30/12
EB-053012DUP	E244-01D	5.63	1	NA	NA	05/30/1218:53	NA	PHE034W02	NA	PHE034W	05/30/1215:00	05/30/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.:	12E244	DATE RECEIVED:	05/30/12
SAMPLE ID:	EB-053012DUP	DATE EXTRACTED:	NA
CONTROL NO.:	E244-01D	DATE ANALYZED:	05/30/12 18:53

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
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pH	5.71	5.63	0.08	0.1

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E244  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-544-SA5C-SB-0.0-0.5	E244-02	8.94	1	NA	NA	NA	05/31/1216:42	05/31/1215:28	PHE035S01	NA	PHE035S	05/30/1211:45	05/30/12
SL-544-SA5C-SB-0.0-0.5DUP	E244-02D	8.99	1	NA	NA	NA	05/31/1216:43	05/31/1215:28	PHE035S02	NA	PHE035S	05/30/1211:45	05/30/12
SL-544-SA5C-SB-5.0-6.0	E244-03	8.74	1	NA	NA	NA	05/31/1216:44	05/31/1215:28	PHE035S03	NA	PHE035S	05/30/1211:51	05/30/12
SL-550-SA5C-SB-0.0-0.5	E244-05	8.82	1	NA	NA	NA	05/31/1216:45	05/31/1215:28	PHE035S04	NA	PHE035S	05/30/1211:15	05/30/12
SL-560-SA5C-SB-0.0-0.5	E244-06	8.01	1	NA	NA	NA	05/31/1216:47	05/31/1215:28	PHE035S05	NA	PHE035S	05/30/1210:29	05/30/12
SL-560-SA5C-SB-6.5-7.5	E244-07	8.42	1	NA	NA	NA	05/31/1216:48	05/31/1215:28	PHE035S06	NA	PHE035S	05/30/1210:15	05/30/12
SL-752-SA5C-SB-0.0-0.5	E244-09	8.54	1	NA	NA	NA	05/31/1216:49	05/31/1215:28	PHE035S07	NA	PHE035S	05/30/1208:28	05/30/12
SL-621-SA5C-SB-0.0-0.5	E244-10	8.61	1	NA	NA	NA	05/31/1216:51	05/31/1215:28	PHE035S08	NA	PHE035S	05/30/1214:05	05/30/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E244	DATE RECEIVED:	05/30/12
SAMPLE ID:	SL-544-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	05/31/12 15:28
CONTROL NO.:	E244-02D	DATE ANALYZED:	05/31/12 16:43

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	8.94	8.99	0.05	0.1

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/06/12 13:44
Sample ID    : TB-053112                       Date Analyzed: 06/06/12 13:44
Lab Samp ID  : E267-15                         Dilution Factor: 1
Lab File ID  : RFV056                          Matrix          : WATER
Ext Btch ID  : VO01F03                         % Moisture     : NA
Calib. Ref.  : RBV366                          Instrument ID   : T-001
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	9.58	10.00	95.8	80-120
4-BROMOFLUOROBENZENE	9.49	10.00	94.9	86-115
TOLUENE-D8	9.67	10.00	96.7	88-110
DIBROMOFLUOROMETHANE	9.24	10.00	92.4	86-118

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12E267                           Date Extracted: 06/06/12 12:47
Sample ID    : MBLK1W                           Date Analyzed: 06/06/12 12:47
Lab Samp ID  : VO01F03B                         Dilution Factor: 1
Lab File ID  : RFV054                           Matrix          : WATER
Ext Btch ID  : VO01F03                          % Moisture     : NA
Calib. Ref.  : RBV366                           Instrument ID   : T-001
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	9.53	10.00	95.3	80-120
4-BROMOFLUOROBENZENE	9.31	10.00	93.1	86-115
TOLUENE-D8	9.48	10.00	94.8	88-110
DIBROMOFLUOROMETHANE	9.28	10.00	92.8	86-118

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VO01F03B VO01F03L VO01F03C  
LAB FILE ID: RFV054 RFV052 RFV053  
DATE EXTRACTED: 06/06/1212:47 06/06/1211:49 06/06/1212:19 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1212:47 06/06/1211:49 06/06/1212:19 DATE RECEIVED: 06/06/12  
PREP. BATCH: VO01F03 VO01F03 VO01F03  
CALIB. REF: RBV366 RBV366 RBV366

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	10.0	9.61	96	10.0	9.48	95	1	70-130	30
1,1,1-Trichloroethane	ND	10.0	10.2	102	10.0	9.77	98	4	70-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.62	96	10.0	8.95	90	7	70-130	30
1,1,2-Trichloroethane	ND	10.0	9.52	95	10.0	9.15	91	4	70-130	30
1,1-Dichloroethane	ND	10.0	9.57	96	10.0	9.22	92	4	70-130	30
1,1-Dichloroethene	ND	10.0	8.90	89	10.0	8.49	85	5	60-130	30
1,1-Dichloropropene	ND	10.0	9.70	97	10.0	9.72	97	0	70-140	30
1,2,3-Trichlorobenzene	ND	10.0	10.2	102	10.0	9.70	97	5	60-130	30
1,2,3-Trichloropropane	ND	10.0	10.1	101	10.0	9.56	96	6	70-140	30
1,2,4-Trichlorobenzene	ND	10.0	10.4	104	10.0	10.1	101	3	60-140	30
1,2,4-Trimethylbenzene	ND	10.0	10.5	105	10.0	10.3	103	2	70-130	30
1,2-Dibromo-3-chloropropane	ND	10.0	8.14	81	10.0	7.81	78	4	60-130	30
1,2-Dichlorobenzene	ND	10.0	9.90	99	10.0	9.72	97	2	70-130	30
1,2-Dichloroethane	ND	10.0	10.3	103	10.0	9.83	98	4	70-130	30
1,2-Dichloropropane	ND	10.0	9.45	95	10.0	9.27	93	2	70-130	30
1,2-Dibromoethane (EDB)	ND	10.0	9.18	92	10.0	8.90	89	3	70-140	30
1,3,5-Trimethylbenzene	ND	10.0	10.4	104	10.0	10.3	103	1	70-130	30
1,3-Dichlorobenzene	ND	10.0	10.0	100	10.0	9.70	97	3	70-130	30
1,3-Dichloropropane	ND	10.0	8.97	90	10.0	8.64	86	4	70-130	30
1,4-Dichlorobenzene	ND	10.0	9.97	100	10.0	9.61	96	4	70-130	30
2,2-Dichloropropane	ND	10.0	9.80	98	10.0	9.56	96	2	50-140	30
2-Chlorotoluene	ND	10.0	9.94	99	10.0	9.68	97	3	70-130	30
4-Chlorotoluene	ND	10.0	10.3	103	10.0	9.96	100	3	70-130	30
Benzene	ND	10.0	9.32	93	10.0	9.05	90	3	70-130	30
Bromobenzene	ND	10.0	10.1	101	10.0	9.79	98	3	70-130	30
Bromochloromethane	ND	10.0	9.40	94	10.0	8.97	90	5	70-130	30
Bromodichloromethane	ND	10.0	9.08	91	10.0	8.93	89	2	70-130	30
Bromoform	ND	10.0	9.82	98	10.0	9.35	94	5	60-140	30
Bromomethane	ND	10.0	9.98	100	10.0	9.27	93	7	50-140	30
Carbon Tetrachloride	ND	10.0	10.2	102	10.0	10.1	101	0	70-130	30
Chlorobenzene	ND	10.0	9.82	98	10.0	9.69	97	1	70-120	30
Chloroethane	ND	10.0	10.3	103	10.0	9.51	95	8	70-140	30
Chloroform	ND	10.0	9.77	98	10.0	9.45	95	3	70-130	30
Chloromethane	ND	10.0	8.79	88	10.0	8.18	82	7	60-130	30
cis-1,2-Dichloroethene	ND	10.0	8.49	85	10.0	8.17	82	4	70-130	30
cis-1,3-Dichloropropene	ND	10.0	9.17	92	10.0	8.95	89	2	70-130	30
Dibromochloromethane	ND	10.0	9.44	94	10.0	9.17	92	3	70-130	30
Dibromomethane	ND	10.0	9.67	97	10.0	9.44	94	2	70-140	30
Dichlorodifluoromethane	ND	10.0	9.93	99	10.0	9.18	92	8	50-140	30
Ethylbenzene	ND	10.0	9.77	98	10.0	9.68	97	1	70-130	30
Hexachlorobutadiene	ND	10.0	11.5	115	10.0	11.4	114	1	60-140	30
Isopropyl Benzene	ND	10.0	11.5	115	10.0	11.4	114	1	70-150	30
m,p-Xylene	ND	20.0	19.1	95	20.0	18.9	94	1	70-130	30
Methyl tert-butyl Ether (MTBE)	ND	10.0	9.22	92	10.0	8.47	85	8	70-140	30
Methylene Chloride	ND	10.0	9.36	94	10.0	8.77	88	7	70-130	30
n-Butylbenzene	ND	10.0	10.9	109	10.0	10.9	109	0	60-130	30
n-Propylbenzene	ND	10.0	10.3	103	10.0	10.2	102	1	70-140	30
o-Xylene	ND	10.0	9.41	94	10.0	9.28	93	1	70-130	30

p-Isopropyltoluene	ND	10.0	11.2	112	10.0	11.1	111	1	70-140	30
Sec-Butylbenzene	ND	10.0	10.6	106	10.0	10.5	105	1	70-130	30
Styrene	ND	10.0	10.1	101	10.0	9.81	98	3	70-130	30
Tert-Butylbenzene	ND	10.0	10.1	101	10.0	10.1	101	0	70-130	30
Tetrachloroethene	ND	10.0	9.42	94	10.0	9.50	95	1	70-130	30
Toluene	ND	10.0	9.42	94	10.0	9.30	93	1	70-130	30
Trans-1,2-Dichloroethene	ND	10.0	8.81	88	10.0	8.53	85	3	70-130	30
Trans-1,3-Dichloropropene	ND	10.0	9.15	91	10.0	8.92	89	2	70-140	30
Trichloroethene	ND	10.0	9.51	95	10.0	9.46	95	1	70-130	30
Trichlorofluoromethane	ND	10.0	11.4	114	10.0	10.3	103	10	70-140	30
Vinyl Chloride	ND	10.0	9.64	96	10.0	8.97	90	7	60-150	30
Acetone	ND	50.0	42.3	85	50.0	39.2	78	8	50-150	30
2-Butanone (MEK)	ND	50.0	46.4	93	50.0	43.8	88	6	60-140	30
2-Hexanone	ND	50.0	46.5	93	50.0	44.3	89	5	70-140	30
4-Methyl-2-Pentanone (MIBK)	ND	50.0	46.9	94	50.0	45.5	91	3	60-140	30
Freon113	ND	10.0	10.4	104	10.0	10.0	100	4	70-140	30
2-Chloroethyl Vinyl Ether	ND	10.0	10.2	102	10.0	9.59	96	6	30-160	30
2-Chloro-1,1,1-trifluoroethane	ND	10.0	11.1	111	10.0	10.6	106	5	50-150	30
Chlorotrifluoroethylene	ND	10.0	8.25	82	10.0	8.01	80	3	50-150	30
1-Chlorohexane	ND	10.0	9.58	96	10.0	9.64	96	1	50-150	30
Carbon Disulfide	ND	10.0	8.36	84	10.0	8.64	86	3	40-150	30
Ethyl tertiary butyl Ether (ETBE)	ND	10.0	9.31	93	10.0	8.67	87	7	40-160	30
Iodomethane	ND	10.0	10.4	104	10.0	9.98	100	4	40-150	30
Tertiary Amyl Methyl Ether (TAME)	ND	10.0	9.12	91	10.0	8.58	86	6	50-150	30
Tertiary butyl Alcohol	ND	50.0	40.6	81	50.0	36.6	73	10	20-160	30
Vinyl Acetate	ND	10.0	10.2	102	10.0	8.49	85	18	10-160	30
Acrolein	ND	50.0	47.9	96	50.0	46.1	92	4	30-160	30
Acrylonitrile	ND	50.0	40.9	82	50.0	40.0	80	2	50-150	30
Diisopropyl Ether	ND	10.0	9.59	96	10.0	9.08	91	5	50-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	10.0	9.84	98	10.0	9.46	95	80-120
4-Bromofluorobenzene	10.0	8.99	90	10.0	8.99	90	86-115
Toluene-d8	10.0	9.10	91	10.0	9.45	95	88-110
Dibromofluoromethane	10.0	9.38	94	10.0	9.15	92	86-118

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/04/12 17:57
Sample ID    : SL-618-SA5C-SB-1.0              Date Analyzed: 06/04/12 17:57
Lab Samp ID  : E267-04R                         Dilution Factor: 0.85
Lab File ID  : RFB059                           Matrix          : SOIL
Ext Btch ID  : VO03F03                          % Moisture     : 6.8
Calib. Ref.  : RDB309                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.6	0.91
1,1,1-TRICHLOROETHANE	ND	4.6	0.91
1,1,2,2-TETRACHLOROETHANE	ND	4.6	0.91
1,1,2-TRICHLOROETHANE	ND	4.6	0.91
1,1-DICHLOROETHANE	ND	4.6	0.91
1,1-DICHLOROETHENE	ND	4.6	0.91
1,1-DICHLOROPROPENE	ND	4.6	0.91
1,2,3-TRICHLOROBENZENE	ND	4.6	1.8
1,2,3-TRICHLOROPROPANE	ND	4.6	1.8
1,2,4-TRICHLOROBENZENE	ND	4.6	1.8
1,2,4-TRIMETHYLBENZENE	ND	4.6	0.91
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.6	1.8
1,2-DICHLOROBENZENE	ND	4.6	0.91
1,2-DICHLOROETHANE	ND	4.6	0.91
1,2-DICHLOROPROPANE	ND	4.6	0.91
1,2-DIBROMOETHANE (EDB)	ND	4.6	0.91
1,3,5-TRIMETHYLBENZENE	ND	4.6	0.91
1,3-DICHLOROBENZENE	ND	4.6	0.91
1,3-DICHLOROPROPANE	ND	4.6	0.91
1,4-DICHLOROBENZENE	ND	4.6	0.91
2,2-DICHLOROPROPANE	ND	4.6	1.8
2-CHLOROTOLUENE	ND	4.6	0.91
4-CHLOROTOLUENE	ND	4.6	0.91
BENZENE	ND	4.6	0.91
BROMOBENZENE	ND	4.6	0.91
BROMOCHLOROMETHANE	ND	4.6	0.91
BROMODICHLOROMETHANE	ND	4.6	0.91
BROMOFORM	ND	4.6	1.8
BROMOMETHANE	ND	4.6	1.8
CARBON TETRACHLORIDE	ND	4.6	0.91
CHLOROBENZENE	ND	4.6	0.91
CHLOROETHANE	ND	4.6	1.8
CHLOROFORM	ND	4.6	0.91
CHLOROMETHANE	ND	4.6	1.8
CIS-1,2-DICHLOROETHENE	ND	4.6	0.91
CIS-1,3-DICHLOROPROPENE	ND	4.6	0.91
DIBROMOCHLOROMETHANE	ND	4.6	0.91
DIBROMOMETHANE	ND	4.6	0.91
DICHLORODIFLUOROMETHANE	ND	4.6	1.8
ETHYLBENZENE	ND	4.6	0.91
HEXACHLOROBUTADIENE	ND	4.6	1.8
ISOPROPYL BENZENE	ND	4.6	0.91
M,P-XYLENE	ND	4.6	1.8
METHYL TERT-BUTYL ETHER (MTBE)	ND	4.6	0.91
METHYLENE CHLORIDE	ND	4.6	1.8
N-BUTYLBENZENE	ND	4.6	0.91
N-PROPYLBENZENE	ND	4.6	0.91
O-XYLENE	ND	4.6	0.91
P-ISOPROPYLTOLUENE	ND	4.6	0.91
SEC-BUTYLBENZENE	ND	4.6	0.91
STYRENE	ND	4.6	0.91
TERT-BUTYLBENZENE	ND	4.6	0.91
TETRACHLOROETHENE	ND	4.6	0.91
TOLUENE	ND	4.6	0.91
TRANS-1,2-DICHLOROETHENE	ND	4.6	0.91
TRANS-1,3-DICHLOROPROPENE	ND	4.6	0.91
TRICHLOROETHENE	ND	4.6	0.91
TRICHLOROFLUOROMETHANE	ND	4.6	1.8
VINYL CHLORIDE	ND	4.6	1.8
ACETONE	ND	9.1	4.6
2-BUTANONE (MEK)	ND	9.1	4.6
2-HEXANONE	ND	9.1	4.6
4-METHYL-2-PENTANONE (MIBK)	ND	9.1	4.6
FREON113	ND	4.6	1.8
2-CHLOROETHYL VINYL ETHER	ND	4.6	1.8
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	4.6	1.8
CHLOROTRIFLUOROETHYLENE	ND	4.6	1.8
1-CHLOROHEXANE	ND	4.6	0.91
CARBON DISULFIDE	ND	4.6	1.8
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	4.6	0.91
IODOMETHANE	ND	4.6	1.8
TERTIARY AMYL METHYL ETHER (TAME)	ND	4.6	0.91
TERTIARY BUTYL ALCOHOL	ND	18	9.1
VINYL ACETATE	ND	4.6	1.8
ACROLEIN	ND	9.1	4.6
ACRYLONITRILE	ND	9.1	4.6
DIISOPROPYL ETHER	ND	9.1	4.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
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1, 2-DICHLOROETHANE-D4	45.5	45.60	99.8	80-120
4-BROMOFLUOROBENZENE	45.5	45.60	99.8	74-121
TOLUENE-D8	51.6	45.60	113	81-117
DIBROMOFLUOROMETHANE	48.7	45.60	107	80-120

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12E267                           Date Extracted: 06/04/12 09:14
Sample ID    : MBLK1S                           Date Analyzed: 06/04/12 09:14
Lab Samp ID  : VO03F03B                         Dilution Factor: 1
Lab File ID  : RFB044                           Matrix          : SOIL
Ext Btch ID  : VO03F03                          % Moisture     : NA
Calib. Ref.  : RDB309                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,2-DIBROMOETHANE (EDB)	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-CHLOROTOLUENE	ND	5.0	1.0
4-CHLOROTOLUENE	ND	5.0	1.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DIBROMOMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
HEXACHLOROBUTADIENE	ND	5.0	2.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENE	ND	5.0	2.0
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.0	1.0
METHYLENE CHLORIDE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	5.0
FREON113	ND	5.0	2.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	2.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.0	2.0
CHLOROTRIFLUOROETHYLENE	ND	5.0	2.0
1-CHLOROHEXANE	ND	5.0	1.0
CARBON DISULFIDE	ND	5.0	2.0
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.0	1.0
IODOMETHANE	ND	5.0	2.0
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.0	1.0
TERTIARY BUTYL ALCOHOL	ND	20	10
VINYL ACETATE	ND	5.0	2.0
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	42.4	50.00	84.8	80-120
4-BROMOFLUOROBENZENE	56.2	50.00	112	74-121
TOLUENE-D8	55.0	50.00	110	81-117
DIBROMOFLUOROMETHANE	48.3	50.00	96.5	80-120

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12E267                           Date Extracted: 06/04/12 10:57
Sample ID    : MBLK2S                           Date Analyzed: 06/04/12 10:57
Lab Samp ID  : VPF002SB                         Dilution Factor: 1
Lab File ID  : RFB047                           Matrix          : SOIL
Ext Btch ID  : VO03F03                          % Moisture     : NA
Calib. Ref.  : RDB309                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,2-DIBROMOETHANE (EDB)	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-CHLOROTOLUENE	ND	5.0	1.0
4-CHLOROTOLUENE	ND	5.0	1.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DIBROMOMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
HEXACHLOROBUTADIENE	ND	5.0	2.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENE	ND	5.0	2.0
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.0	1.0
METHYLENE CHLORIDE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	5.0
FREON113	ND	5.0	2.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	2.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.0	2.0
CHLOROTRIFLUOROETHYLENE	ND	5.0	2.0
1-CHLOROHEXANE	ND	5.0	1.0
CARBON DISULFIDE	ND	5.0	2.0
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.0	1.0
IODOMETHANE	ND	5.0	2.0
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.0	1.0
TERTIARY BUTYL ALCOHOL	ND	20	10
VINYL ACETATE	ND	5.0	2.0
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1, 2-DICHLOROETHANE-D4	45.9	50.00	91.8	80-120
4-BROMOFLUOROBENZENE	51.7	50.00	103	74-121
TOLUENE-D8	53.9	50.00	108	81-117
DIBROMOFLUOROMETHANE	51.9	50.00	104	80-120

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 5035/8260B

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: VO03F03B VO03F03L VO03F03C  
LAB FILE ID: RFB044 RFB045 RFB046  
DATE EXTRACTED: 06/04/1209:14 06/04/1209:48 06/04/1210:22 DATE COLLECTED: NA  
DATE ANALYZED: 06/04/1209:14 06/04/1209:48 06/04/1210:22 DATE RECEIVED: 06/04/12  
PREP. BATCH: VO03F03 VO03F03 VO03F03  
CALIB. REF: RDB309 RDB309 RDB309

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	50.0	49.9	100	50.0	48.1	96	4	70-130	50
1,1,1-Trichloroethane	ND	50.0	49.5	99	50.0	48.8	98	1	60-130	50
1,1,2,2-Tetrachloroethane	ND	50.0	52.1	104	50.0	51.9	104	1	70-150	50
1,1,2-Trichloroethane	ND	50.0	51.3	103	50.0	49.9	100	3	70-140	50
1,1-Dichloroethane	ND	50.0	50.3	101	50.0	49.3	99	2	70-140	50
1,1-Dichloroethene	ND	50.0	48.4	97	50.0	47.1	94	3	60-130	50
1,1-Dichloropropene	ND	50.0	53.0	106	50.0	49.5	99	7	70-130	50
1,2,3-Trichlorobenzene	ND	50.0	52.5	105	50.0	56.0	112	6	60-150	50
1,2,3-Trichloropropane	ND	50.0	44.8	90	50.0	46.9	94	5	60-150	50
1,2,4-Trichlorobenzene	ND	50.0	56.1	112	50.0	56.1	112	0	60-140	50
1,2,4-Trimethylbenzene	ND	50.0	51.0	102	50.0	50.5	101	1	70-130	50
1,2-Dibromo-3-chloropropane	ND	50.0	51.5	103	50.0	54.9	110	6	50-150	50
1,2-Dichlorobenzene	ND	50.0	51.0	102	50.0	50.5	101	1	70-130	50
1,2-Dichloroethane	ND	50.0	45.4	91	50.0	43.1	86	5	60-140	50
1,2-Dichloropropane	ND	50.0	52.6	105	50.0	50.1	100	5	70-130	50
1,2-Dibromoethane (EDB)	ND	50.0	53.0	106	50.0	50.1	100	6	50-150	50
1,3,5-Trimethylbenzene	ND	50.0	51.1	102	50.0	50.6	101	1	70-130	50
1,3-Dichlorobenzene	ND	50.0	53.5	107	50.0	51.0	102	5	70-130	50
1,3-Dichloropropane	ND	50.0	49.8	100	50.0	48.2	96	3	70-140	50
1,4-Dichlorobenzene	ND	50.0	53.0	106	50.0	51.7	103	3	70-130	50
2,2-Dichloropropane	ND	50.0	45.6	91	50.0	43.8	88	4	40-140	50
2-Chlorotoluene	ND	50.0	50.4	101	50.0	50.1	100	1	70-130	50
4-Chlorotoluene	ND	50.0	51.3	103	50.0	50.6	101	1	70-130	50
Benzene	ND	50.0	51.7	103	50.0	48.7	97	6	70-130	50
Bromobenzene	ND	50.0	50.9	102	50.0	51.1	102	0	70-130	50
Bromochloromethane	ND	50.0	53.4	107	50.0	52.8	106	1	60-150	50
Bromodichloromethane	ND	50.0	50.2	100	50.0	47.3	95	6	60-130	50
Bromoform	ND	50.0	51.0	102	50.0	52.9	106	4	60-130	50
Bromomethane	ND	50.0	53.2	106	50.0	51.4	103	3	40-160	50
Carbon Tetrachloride	ND	50.0	49.9	100	50.0	47.3	95	5	50-130	50
Chlorobenzene	ND	50.0	52.2	104	50.0	49.8	100	5	70-130	50
Chloroethane	ND	50.0	48.2	96	50.0	46.0	92	5	60-150	50
Chloroform	ND	50.0	48.1	96	50.0	50.0	100	4	70-130	50
Chloromethane	ND	50.0	52.2	104	50.0	50.1	100	4	50-150	50
cis-1,2-Dichloroethene	ND	50.0	52.8	106	50.0	52.2	104	1	70-130	50
cis-1,3-Dichloropropene	ND	50.0	50.9	102	50.0	48.7	97	4	60-130	50
Dibromochloromethane	ND	50.0	50.3	101	50.0	48.4	97	4	70-130	50
Dibromomethane	ND	50.0	51.5	103	50.0	49.5	99	4	70-130	50
Dichlorodifluoromethane	ND	50.0	55.3	111	50.0	53.2	106	4	50-130	50
Ethylbenzene	ND	50.0	53.3	107	50.0	49.8	100	7	70-130	50
Hexachlorobutadiene	ND	50.0	51.6	103	50.0	50.7	101	2	50-140	50
Isopropyl Benzene	ND	50.0	51.1	102	50.0	50.0	100	2	70-140	50
m,p-Xylene	ND	100	106	106	100	100	100	6	70-140	50
Methyl tert-butyl Ether (MTBE)	ND	50.0	46.5	93	50.0	47.0	94	1	60-150	50
Methylene Chloride	ND	50.0	52.2	104	50.0	53.0	106	2	70-130	50
n-Butylbenzene	ND	50.0	53.9	108	50.0	52.4	105	3	50-150	50
n-Propylbenzene	ND	50.0	52.0	104	50.0	50.8	102	2	70-130	50
o-Xylene	ND	50.0	53.8	108	50.0	50.2	100	7	70-130	50

p-Isopropyltoluene	ND	50.0	50.2	100	50.0	49.3	99	2	60-140	50
Sec-Butylbenzene	ND	50.0	52.0	104	50.0	51.9	104	0	70-130	50
Styrene	ND	50.0	55.0	110	50.0	52.4	105	5	60-140	50
Tert-Butylbenzene	ND	50.0	49.3	99	50.0	49.0	98	1	70-130	50
Tetrachloroethene	ND	50.0	54.2	108	50.0	51.7	103	5	70-130	50
Toluene	ND	50.0	52.7	105	50.0	49.7	99	6	70-130	50
Trans-1,2-Dichloroethene	ND	50.0	50.2	100	50.0	49.6	99	1	70-130	50
Trans-1,3-Dichloropropene	ND	50.0	49.4	99	50.0	47.5	95	4	60-140	50
Trichloroethene	ND	50.0	50.0	100	50.0	47.1	94	6	70-130	50
Trichlorofluoromethane	ND	50.0	43.4	87	50.0	41.5	83	5	70-140	50
Vinyl Chloride	ND	50.0	44.8	90	50.0	42.9	86	4	60-150	50
Acetone	ND	250	215	86	250	226	91	5	40-160	50
2-Butanone (MEK)	ND	250	227	91	250	244	98	7	50-160	50
2-Hexanone	ND	250	235	94	250	244	98	4	60-160	50
4-Methyl-2-Pentanone (MIBK)	ND	250	237	95	250	242	97	2	70-160	50
Freon113	ND	50.0	49.7	99	50.0	50.7	101	2	50-140	50
2-Chloroethyl Vinyl Ether	ND	50.0	55.1	110	50.0	54.6	109	1	50-150	50
2-Chloro-1,1,1-trifluoroethane	ND	50.0	43.1	86	50.0	44.2	88	3	50-150	50
Chlorotrifluoroethylene	ND	50.0	53.0	106	50.0	52.2	104	1	50-150	50
1-Chlorohexane	ND	50.0	55.0	110	50.0	51.3	103	7	60-130	50
Carbon Disulfide	ND	50.0	52.6	105	50.0	54.7	109	4	40-140	50
Ethyl tertiary butyl Ether (ETBE)	ND	50.0	48.3	97	50.0	48.4	97	0	40-160	50
Iodomethane	ND	50.0	48.9	98	50.0	49.8	100	2	40-150	50
Tertiary Amyl Methyl Ether (TAME)	ND	50.0	48.6	97	50.0	49.5	99	2	50-150	50
Tertiary butyl Alcohol	ND	250	236	94	250	257	103	8	50-150	50
Vinyl Acetate	ND	50.0	51.0	102	50.0	50.4	101	1	10-160	50
Acrolein	ND	250	268	107	250	283	113	5	45-165	50
Acrylonitrile	ND	250	247	99	250	257	103	4	50-150	50
Diisopropyl Ether	ND	50.0	51.7	103	50.0	51.8	104	0	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	50.0	45.1	90	50.0	47.0	94	80-120
4-Bromofluorobenzene	50.0	51.0	102	50.0	51.0	102	74-121
Toluene-d8	50.0	57.1	114	50.0	54.9	110	81-117
Dibromofluoromethane	50.0	51.4	103	50.0	50.9	102	80-120

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                       Date Received: 05/31/12
Batch No.    : 12E267                             Date Extracted: 06/07/12 12:31
Sample ID    : TB-053112                          Date Analyzed: 06/07/12 12:31
Lab Samp ID  : E267-15                             Dilution Factor: 1
Lab File ID  : RPY060                              Matrix       : WATER
Ext Btch ID  : VOF5F06                             % Moisture   : NA
Calib. Ref.  : RKY092                              Instrument ID : TOF5
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	4.51	5.000	90.3	50-150

METHOD 5030B/8260B SIM  
 VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12E267                           Date Extracted: 06/07/12 12:00
Sample ID    : MBLK1W                           Date Analyzed: 06/07/12 12:00
Lab Samp ID  : VOF5F06B                         Dilution Factor: 1
Lab File ID  : RPY059                           Matrix          : WATER
Ext Btch ID  : VOF5F06                           % Moisture     : NA
Calib. Ref.  : RKY092                           Instrument ID   : TOF5
=====
  
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	4.83	5.000	96.6	50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: 5030B/8260B SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VOF5F06B VOF5F06L VOF5F06C  
LAB FILE ID: RFY059 RFY056 RFY057  
DATE EXTRACTED: 06/07/1212:00 06/07/1210:27 06/07/1210:58 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1212:00 06/07/1210:27 06/07/1210:58 DATE RECEIVED: 06/07/12  
PREP. BATCH: VOF5F06 VOF5F06 VOF5F06  
CALIB. REF: RKY092 RKY092 RKY092

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,4-Dioxane	ND	50.0	46.4	93	50.0	47.5	95	3	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	5.00	4.39	88	5.00	4.44	89	50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/04/12 15:19
Sample ID    : SL-618-SA5C-SB-1.0              Date Analyzed: 06/04/12 15:19
Lab Samp ID  : E267-04                          Dilution Factor: 0.94
Lab File ID  : RFY008                           Matrix          : SOIL
Ext Btch ID  : VOF5F01                          % Moisture     : 6.8
Calib. Ref.  : RJY282                           Instrument ID   : TOF5
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,4-DIOXANE	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	21.6	20.17	107	50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12E267                           Date Extracted: 06/04/12 14:17
Sample ID    : MBLK1S                           Date Analyzed: 06/04/12 14:17
Lab Samp ID  : VOF5F01B                         Dilution Factor: 1
Lab File ID  : RFY006                           Matrix          : SOIL
Ext Btch ID  : VOF5F01                          % Moisture     : NA
Calib. Ref.  : RJY282                           Instrument ID   : TOF5
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
1,4-DIOXANE	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	21.6	20.00	108	50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.   : 12E267                           Date Extracted: 06/04/12 14:48
Sample ID   : MBLK2S                           Date Analyzed: 06/04/12 14:48
Lab Samp ID: VPF004SB                         Dilution Factor: 1
Lab File ID: RFY007                           Matrix          : SOIL
Ext Btch ID: VOF5F01                          % Moisture     : NA
Calib. Ref.: RJY282                           Instrument ID   : TOF5
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
1,4-DIOXANE	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	19.9	20.00	99.4	50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: 5035/8260B SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: VOF5F01B VOF5F01L VOF5F01C  
LAB FILE ID: RFY006 RFY003 RFY004  
DATE EXTRACTED: 06/04/1214:17 06/04/1212:46 06/04/1213:16 DATE COLLECTED: NA  
DATE ANALYZED: 06/04/1214:17 06/04/1212:46 06/04/1213:16 DATE RECEIVED: 06/04/12  
PREP. BATCH: VOF5F01 VOF5F01 VOF5F01  
CALIB. REF: RJY282 RJY282 RJY282

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,4-Dioxane	ND	200	184	92	200	201	100	9	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	20.0	25.5	128	20.0	22.1	110	50-150

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/04/12 12:00
Sample ID    : EB-053112                        Date Analyzed: 06/06/12 18:06
Lab Samp ID  : E267-01                          Dilution Factor: .99
Lab File ID  : RFL097                           Matrix          : WATER
Ext Btch ID  : SVF007W                          % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.099
ACENAPHTHYLENE	ND	0.20	0.099
ANTHRACENE	ND	0.20	0.099
BENZO (A) ANTHRACENE	ND	0.20	0.099
BENZO (A) PYRENE	ND	0.20	0.099
BENZO (B) FLUORANTHENE	ND	0.20	0.099
BENZO (K) FLUORANTHENE	ND	0.20	0.099
BENZO (G, H, I) PERYLENE	ND	0.20	0.099
CHRYSENE	ND	0.20	0.099
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.099
FLUORANTHENE	ND	0.20	0.099
FLUORENE	ND	0.20	0.099
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.099
NAPHTHALENE	0.13J	0.20	0.099
PHENANTHRENE	ND	0.20	0.099
2-METHYLNAPHTHALENE	ND	0.20	0.099
1-METHYLNAPHTHALENE	ND	0.20	0.099
N-NITROSODIMETHYLAMINE	ND	0.99	0.099
PYRENE	ND	0.20	0.099
AZOBENZENE	ND	0.99	0.099
BENZO (E) PYRENE	ND	0.20	0.099
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	12.9	19.80	65.1	40-130
2-FLUOROBIPHENYL	11.9	19.80	60.1	45-130
TERPHENYL-D14	17.3	19.80	87.5	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12E267                           Date Extracted: 06/04/12 12:00
Sample ID    : MBLK1W                           Date Analyzed: 06/06/12 13:19
Lab Samp ID  : SVF007WB                         Dilution Factor: 1
Lab File ID  : RFL086                           Matrix          : WATER
Ext Btch ID  : SVF007W                          % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	13.4	20.00	66.8	40-130
2-FLUOROBIPHENYL	12.2	20.00	61.2	45-130
TERPHENYL-D14	18.0	20.00	90.0	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVF007WB SVF007WL SVF007WC  
LAB FILE ID: RFL086 RFL087 RFL088  
DATE EXTRACTED: 06/04/1212:00 06/04/1212:00 06/04/1212:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1213:19 06/06/1213:45 06/06/1214:11 DATE RECEIVED: 06/04/12  
PREP. BATCH: SVF007W SVF007W SVF007W  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	32.6	81	40.0	33.9	85	4	20-130	30
Acenaphthylene	ND	40.0	34.4	86	40.0	34.3	86	0	30-140	30
Anthracene	ND	40.0	35.9	90	40.0	35.5	89	1	40-130	30
Benzo (a) anthracene	ND	40.0	38.8	97	40.0	37.6	94	3	50-130	30
Benzo (a) pyrene	ND	40.0	38.1	95	40.0	36.4	91	4	50-130	30
Benzo (b) fluoranthene	ND	40.0	43.0	108	40.0	41.8	105	3	50-130	30
Benzo (k) fluoranthene	ND	40.0	35.4	89	40.0	34.2	85	4	50-130	30
Benzo (g, h, i) perylene	ND	40.0	37.1	93	40.0	36.7	92	1	30-150	30
Chrysene	ND	40.0	40.1	100	40.0	38.5	96	4	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	39.8	100	40.0	39.0	97	2	40-140	30
Fluoranthene	ND	40.0	39.9	100	40.0	39.3	98	2	40-130	30
Fluorene	ND	40.0	33.1	83	40.0	34.6	87	4	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	38.9	97	40.0	39.2	98	1	40-130	30
Naphthalene	ND	40.0	29.7	74	40.0	32.1	80	8	20-130	30
Phenanthrene	ND	40.0	37.4	94	40.0	37.0	92	1	40-130	30
2-Methylnaphthalene	ND	40.0	31.0	77	40.0	31.1	78	0	30-150	30
1-Methylnaphthalene	ND	40.0	32.9	82	40.0	33.0	83	0	40-150	30
N-Nitrosodimethylamine	ND	40.0	36.0	90	40.0	34.7	87	4	20-150	30
Pyrene	ND	40.0	40.7	102	40.0	39.6	99	3	40-130	30
Azobenzene	ND	40.0	33.6	84	40.0	33.3	83	1	30-150	30
Benzo (e) pyrene	ND	40.0	39.9	100	40.0	38.8	97	3	30-150	30
Biphenyl	ND	40.0	33.5	84	40.0	35.1	88	5	30-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	13.7	69	20.0	14.0	70	40-130
2-Fluorobiphenyl	20.0	13.3	67	20.0	14.1	70	45-130
Terphenyl-d14	20.0	19.4	97	20.0	19.2	96	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/07/12 16:04
Sample ID:   SL-611-SA5C-SB-0.0-0.5            Date Analyzed: 06/07/12 23:14
Lab Samp ID: E267-07                             Dilution Factor: 1
Lab File ID: RFJ147                               Matrix          : SOIL
Ext Btch ID: SVF019S                             % Moisture     : 8.7
Calib. Ref.: RAJ290                              Instrument ID  : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	199	365.1	54.5	40-130
2-FLUOROBIPHENYL	196	365.1	53.6	45-130
TERPHENYL-D14	287	365.1	78.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/07/12 16:04
Sample ID:   SL-611-SA5C-SB-5.0-6.0           Date Analyzed: 06/07/12 23:33
Lab Samp ID: E267-08                           Dilution Factor: 1
Lab File ID: RFJ148                             Matrix          : SOIL
Ext Btch ID: SVF019S                           % Moisture      : 11.0
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	215	374.5	57.4	40-130
2-FLUOROBIPHENYL	197	374.5	52.6	45-130
TERPHENYL-D14	287	374.5	76.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/07/12 16:04
Sample ID    : SL-612-SA5C-SB-4.0-5.0          Date Analyzed: 06/07/12 23:52
Lab Samp ID  : E267-18                           Dilution Factor: 1
Lab File ID  : RFJ149                             Matrix          : SOIL
Ext Btch ID  : SVF019S                           % Moisture     : 7.2
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	8.3J	11	2.7
BENZO (A) PYRENE	9.2J	11	2.7
BENZO (B) FLUORANTHENE	11	11	2.7
BENZO (K) FLUORANTHENE	4.2J	11	2.7
BENZO (G, H, I) PERYLENE	5.5J	11	2.7
CHRYSENE	10J	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	21	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	4.5J	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	15	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	20	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	5.8	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	162	359.2	45.1	40-130
2-FLUOROBIPHENYL	170	359.2	47.4	45-130
TERPHENYL-D14	286	359.2	79.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/07/12 16:04
Sample ID:   SL-912-SA5C-SB-4.0-5.0           Date Analyzed: 06/08/12 00:11
Lab Samp ID: E267-20                           Dilution Factor: 1
Lab File ID: RFJ150                             Matrix          : SOIL
Ext Btch ID: SVF019S                            % Moisture     : 6.5
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	ND	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	216	356.5	60.7	40-130
2-FLUOROBIPHENYL	202	356.5	56.7	45-130
TERPHENYL-D14	278	356.5	78.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/07/12 16:04
Sample ID    : SL-612-SA5C-SB-7.0-8.0          Date Analyzed: 06/08/12 00:30
Lab Samp ID  : E267-22                           Dilution Factor: 1
Lab File ID  : RFJ151                             Matrix          : SOIL
Ext Btch ID  : SVF019S                           % Moisture     : 10.0
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	234	370.3	63.1	40-130
2-FLUOROBIPHENYL	220	370.3	59.4	45-130
TERPHENYL-D14	282	370.3	76.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12E267                           Date Extracted: 06/07/12 16:04
Sample ID    : MBLK1S                           Date Analyzed: 06/07/12 19:09
Lab Samp ID  : SVF019SB                         Dilution Factor: 1
Lab File ID  : RFJ134                           Matrix          : SOIL
Ext Btch ID  : SVF019S                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	238	333.3	71.5	40-130
2-FLUOROBIPHENYL	211	333.3	63.4	45-130
TERPHENYL-D14	249	333.3	74.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF019SB SVF019SL SVF019SC  
LAB FILE ID: RFJ134 RFJ135 RFJ136  
DATE EXTRACTED: 06/07/1216:04 06/07/1216:04 06/07/1216:04 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1219:09 06/07/1219:28 06/07/1219:47 DATE RECEIVED: 06/07/12  
PREP. BATCH: SVF019S SVF019S SVF019S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	292	88	333	255	77	13	10-130	50
Acenaphthylene	ND	333	325	97	333	287	86	12	20-130	50
Anthracene	ND	333	277	83	333	243	73	13	20-130	50
Benzo (a) anthracene	ND	333	288	86	333	240	72	18	30-130	50
Benzo (a) pyrene	ND	333	319	96	333	298	89	7	30-130	50
Benzo (b) fluoranthene	ND	333	330	99	333	301	90	9	40-130	50
Benzo (k) fluoranthene	ND	333	329	99	333	310	93	6	30-140	50
Benzo (g, h, i) perylene	ND	333	337	101	333	321	96	5	30-140	50
Chrysene	ND	333	293	88	333	245	74	18	30-140	50
Dibenzo (a, h) anthracene	ND	333	334	100	333	316	95	6	40-140	50
Fluoranthene	ND	333	310	93	333	270	81	14	30-130	50
Fluorene	ND	333	296	89	333	258	77	14	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	332	100	333	314	94	6	20-160	50
Naphthalene	ND	333	281	84	333	241	72	15	10-130	50
Phenanthrene	ND	333	284	85	333	248	74	14	20-130	50
2-Methylnaphthalene	ND	333	296	89	333	255	76	15	30-150	50
1-Methylnaphthalene	ND	333	304	91	333	263	79	14	30-150	50
N-Nitrosodimethylamine	ND	333	265	80	333	224	67	17	30-150	50
Pyrene	ND	333	299	90	333	256	77	15	20-150	50
Azobenzene	ND	333	286	86	333	240	72	17	30-150	50
Benzo (e) pyrene	ND	333	292	88	333	282	85	4	30-150	50
Biphenyl	ND	333	238	71	333	215	65	10	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	264	79	333	243	73	40-130
2-Fluorobiphenyl	333	236	71	333	213	64	45-130
Terphenyl-d14	333	278	83	333	248	74	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 7.2  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-612-SA5C-SB-4.0-5.0  
LAB SAMP ID: E267-18 E267-18M E267-18S  
LAB FILE ID: RFJ149 RFJ137 RFJ138  
DATE EXTRACTED: 06/07/1216:04 06/07/1216:04 06/07/1216:04 DATE COLLECTED: 05/31/12  
DATE ANALYZED: 06/07/1223:52 06/07/1220:06 06/07/1220:25 DATE RECEIVED: 05/31/12  
PREP. BATCH: SVF019S SVF019S SVF019S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	359	261	73	359	260	73	0	10-130	50
Acenaphthylene	ND	359	291	81	359	288	80	1	20-130	50
Anthracene	ND	359	269	75	359	280	78	4	20-130	50
Benzo (a) anthracene	8.31J	359	273	74	359	279	75	2	30-130	50
Benzo (a) pyrene	9.15J	359	312	84	359	330	89	6	30-130	50
Benzo (b) fluoranthene	11.0	359	327	88	359	351	95	7	30-130	50
Benzo (k) fluoranthene	4.19J	359	303	83	359	337	93	11	30-130	50
Benzo (g, h, i) perylene	5.50J	359	332	91	359	349	96	5	30-140	50
Chrysene	10.0J	359	274	73	359	279	75	2	20-130	50
Dibenzo (a, h) anthracene	ND	359	324	90	359	346	96	6	30-130	50
Fluoranthene	21.1	359	306	79	359	320	83	5	30-150	50
Fluorene	ND	359	265	74	359	282	78	6	20-130	50
Indeno (1, 2, 3-cd) pyrene	4.53J	359	325	89	359	345	95	6	20-160	50
Naphthalene	ND	359	227	63	359	215	60	5	10-130	50
Phenanthrene	15.0	359	286	75	359	293	77	3	20-130	50
2-Methylnaphthalene	ND	359	251	70	359	237	66	5	30-150	50
1-Methylnaphthalene	ND	359	260	72	359	247	69	5	30-150	50
N-Nitrosodimethylamine	ND	359	246	69	359	211	59	16	20-150	50
Pyrene	20.3	359	292	76	359	305	79	4	10-160	50
Azobenzene	ND	359	272	76	359	263	73	4	30-150	50
Benzo (e) pyrene	5.76	359	269	73	359	270	74	1	30-150	50
Biphenyl	ND	359	184	51	359	190	53	3	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	359	215	60	359	198	55	40-130
2-Fluorobiphenyl	359	187	52	359	179	50	45-130
Terphenyl-d14	359	238	66	359	243	68	45-135

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 06:24
Sample ID    : EB-053112                        Date Analyzed: 06/05/12 06:24
Lab Samp ID  : E267-01                          Dilution Factor: 1
Lab File ID  : EF04034A                         Matrix          : WATER
Ext Btch ID  : VG39F02                          % Moisture     : NA
Calib. Ref.  : EF04028A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)**	54	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	35.7	40.00	89.3 60-140

RL : Reporting Limit  
 \*\*: Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 07:07
Sample ID:   TB-053112                          Date Analyzed: 06/05/12 07:07
Lab Samp ID: E267-15                             Dilution Factor: 1
Lab File ID: EF04035A                           Matrix          : WATER
Ext Btch ID: VG39F02                             % Moisture     : NA
Calib. Ref.: EF04028A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)**	27J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	35.3	40.00	88.3 60-140

RL : Reporting Limit  
 \*\*: Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.  : 12E267                           Date Extracted: 06/05/12 00:38
Sample ID  : MBLK1W                           Date Analyzed: 06/05/12 00:38
Lab Samp ID: VG39F02B                         Dilution Factor: 1
Lab File ID: EF04026A                         Matrix          : WATER
Ext Btch ID: VG39F02                          % Moisture     : NA
Calib. Ref.: EF04017A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	35.3	40.00	88.3 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F02B VG39F02L VG39F02C  
LAB FILE ID: EF04026A EF04024A EF04025A  
DATE EXTRACTED: 06/05/1200:38 06/04/1223:12 06/04/1223:55 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1200:38 06/04/1223:12 06/04/1223:55 DATE RECEIVED: 06/04/12  
PREP. BATCH: VG39F02 VG39F02 VG39F02  
CALIB. REF: EF04017A EF04017A EF04017A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	438	88	500	445	89	2	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	43.3	108	40.0	40.9	102	60-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/31/12
Project    : SSFL PHASE 3                       Date Received: 05/31/12
Batch No.  : 12E267                             Date Extracted: 06/04/12 14:35
Sample ID: SL-618-SA5C-SB-1.0                  Date Analyzed: 06/04/12 14:35
Lab Samp ID: E267-04                           Dilution Factor: 0.96
Lab File ID: EF04012A                          Matrix          : SOIL
Ext Btch ID: GMF001S                           % Moisture     : 6.8
Calib. Ref.: EF04004A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.87	2.060	90.6 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                       Date Received: 05/31/12
Batch No.    : 12E267                             Date Extracted: 06/04/12 15:17
Sample ID:   SL-608-SA5C-SB-3.0                   Date Analyzed: 06/04/12 15:17
Lab Samp ID: E267-06                               Dilution Factor: 0.99
Lab File ID: EF04013A                             Matrix          : SOIL
Ext Btch ID: GMF001S                               % Moisture     : 5.2
Calib. Ref.: EF04004A                             Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.88	2.089	90.0 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/04/12 16:00
Sample ID:   SL-611-SA5C-SB-6.0                Date Analyzed: 06/04/12 16:00
Lab Samp ID: E267-09                           Dilution Factor: 0.85
Lab File ID: EF04014A                          Matrix          : SOIL
Ext Btch ID: GMF001S                            % Moisture     : 11.4
Calib. Ref.: EF04004A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.96	0.48
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.65	1.919	86.2 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                       Date Received: 05/31/12
Batch No.    : 12E267                             Date Extracted: 06/04/12 18:53
Sample ID:   SL-609-SA5C-SB-4.0                   Date Analyzed: 06/04/12 18:53
Lab Samp ID: E267-17                               Dilution Factor: 0.87
Lab File ID: EF04018A                             Matrix          : SOIL
Ext Btch ID: GMF001S                              % Moisture     : 17.1
Calib. Ref.: EF04017A                             Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.77	2.099	84.5 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/31/12
Project    : SSFL PHASE 3                       Date Received: 05/31/12
Batch No.  : 12E267                             Date Extracted: 06/04/12 19:36
Sample ID: SL-612-SA5C-SB-5.0                 Date Analyzed: 06/04/12 19:36
Lab Samp ID: E267-19                           Dilution Factor: 0.99
Lab File ID: EF04019A                          Matrix          : SOIL
Ext Btch ID: GMF001S                            % Moisture     : 10.4
Calib. Ref.: EF04017A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.55
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.93	2.210	87.5 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/04/12 21:46
Sample ID:   SL-912-SA5C-SB-5.0                Date Analyzed: 06/04/12 21:46
Lab Samp ID: E267-21                           Dilution Factor: 0.91
Lab File ID: EF04022A                          Matrix          : SOIL
Ext Btch ID: GMF001S                            % Moisture     : 8.3
Calib. Ref.: EF04017A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.99	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.78	1.985	89.8 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/04/12 22:29
Sample ID:   SL-612-SA5C-SB-8.0                Date Analyzed: 06/04/12 22:29
Lab Samp ID: E267-23                           Dilution Factor: 1.04
Lab File ID: EF04023A                          Matrix          : SOIL
Ext Btch ID: GMF001S                            % Moisture     : 22.3
Calib. Ref.: EF04017A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.3	0.67
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.19	2.677	81.8 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/03/12
Batch No.   : 12E267                           Date Extracted: 06/03/12 11:35
Sample ID   : MBLK1S                           Date Analyzed: 06/03/12 11:35
Lab Samp ID: GMF001SB                         Dilution Factor: 1
Lab File ID: EF01070A                         Matrix          : SOIL
Ext Btch ID: GMF001S                          % Moisture     : NA
Calib. Ref.: EF01062A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.76	2.000	87.8 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF001SB GMF001SL GMF001SC  
LAB FILE ID: EF01070A EF01071A EF01072A  
DATE EXTRACTED: 06/03/1211:35 06/03/1212:18 06/03/1213:01 DATE COLLECTED: NA  
DATE ANALYZED: 06/03/1211:35 06/03/1212:18 06/03/1213:01 DATE RECEIVED: 06/03/12  
PREP. BATCH: GMF001S GMF001S GMF001S  
CALIB. REF: EF01062A EF01062A EF01062A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	18.8	75	25.0	21.2	85	12	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.10	105	2.00	2.20	110	60-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: 10.4  
DILUTION FACTOR: 0.99 0.93 0.91  
SAMPLE ID: SL-612-SA5C-SB-5.0  
LAB SAMP ID: E267-19 E267-19M E267-19S  
LAB FILE ID: EF04019A EF04020A EF04021A  
DATE EXTRACTED: 06/04/1219:36 06/04/1220:20 06/04/1221:03 DATE COLLECTED: 05/31/12  
DATE ANALYZED: 06/04/1219:36 06/04/1220:20 06/04/1221:03 DATE RECEIVED: 05/31/12  
PREP. BATCH: GMF001S GMF001S GMF001S  
CALIB. REF: EF04017A EF04017A EF04017A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.9	22.8	88	25.4	20.9	82	7	50-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.08	2.38	115	2.03	2.22	109	70-140

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                       Date Received: 05/31/12
Batch No.    : 12E267                             Date Extracted: 06/01/12 13:05
Sample ID:   EB-053112                            Date Analyzed: 06/01/12 13:05
Lab Samp ID: E267-01                              Dilution Factor: 1
Lab File ID: BF01010A                             Matrix          : WATER
Ext Btch ID: MEF001W                               % Moisture     : NA
Calib. Ref.: BF01002A                             Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.   : 12E267                           Date Extracted: 06/01/12 10:15
Sample ID   : MBLK1W                           Date Analyzed: 06/01/12 10:15
Lab Samp ID: MEF001WB                         Dilution Factor: 1
Lab File ID: BF01003A                         Matrix          : WATER
Ext Btch ID: MEF001W                          % Moisture     : NA
Calib. Ref.: BF01002A                         Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEF001SB MEF001SL MEF001SY  
LAB FILE ID: BF01011A BF01012A BF01017A  
DATE EXTRACTED: 06/01/1209:10 06/01/1209:10 06/01/1209:10 DATE COLLECTED: NA  
DATE ANALYZED: 06/01/1213:29 06/01/1213:46 06/01/1215:20 DATE RECEIVED: 06/01/12  
PREP. BATCH: MEF001S MEF001S MEF001S  
CALIB. REF: BF01002A BF01002A BF01002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	10500	105	10000	10000	100	5	50-150	50
Isopropanol	ND	10000	9530	95	10000	9550	96	0	50-150	50
Methanol	ND	10000	9850	98	10000	9650	97	2	50-150	50

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 05/31/12
Project     : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.   : 12E267                           Date Extracted: 06/01/12 09:10
Sample ID:  SL-608-SA5C-SB-2.0-3.0           Date Analyzed: 06/01/12 14:23
Lab Samp ID: E267-05                           Dilution Factor: 1
Lab File ID: BF01014A                          Matrix          : SOIL
Ext Btch ID: MEF001S                           % Moisture      : 5.6
Calib. Ref.: BF01002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	530	260
ISOPROPANOL	ND	530	260
METHANOL	ND	530	260

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                       Date Received: 05/31/12
Batch No.    : 12E267                             Date Extracted: 06/01/12 09:10
Sample ID:   SL-610-SA5C-SB-0.0-0.5              Date Analyzed: 06/01/12 14:39
Lab Samp ID: E267-14                              Dilution Factor: 1
Lab File ID: BF01015A                             Matrix          : SOIL
Ext Btch ID: MEF001S                               % Moisture     : 4.6
Calib. Ref.: BF01002A                             Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	520	260
ISOPROPANOL	ND	520	260
METHANOL	ND	520	260

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/01/12 09:10
Sample ID    : SL-609-SA5C-SB-3.0-4.0          Date Analyzed: 06/01/12 14:57
Lab Samp ID  : E267-16                          Dilution Factor: 1
Lab File ID  : BF01016A                        Matrix          : SOIL
Ext Btch ID  : MEF001S                         % Moisture     : 10.0
Calib. Ref.  : BF01002A                       Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	560	280
ISOPROPANOL	ND	560	280
METHANOL	ND	560	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.   : 12E267                           Date Extracted: 06/01/12 09:10
Sample ID   : MBLK1S                           Date Analyzed: 06/01/12 13:29
Lab Samp ID: MEF001SB                         Dilution Factor: 1
Lab File ID: BF01011A                        Matrix          : SOIL
Ext Btch ID: MEF001S                          % Moisture     : NA
Calib. Ref.: BF01002A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 8015B

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: MEF001WB MEF001WX MEF001WY  
LAB FILE ID: BF01003A BF01007A BF01008A  
DATE EXTRACTED: 06/01/1210:15 06/01/1211:35 06/01/1211:56 DATE COLLECTED: NA  
DATE ANALYZED: 06/01/1210:15 06/01/1211:35 06/01/1211:56 DATE RECEIVED: 06/01/12  
PREP. BATCH: MEF001W MEF001W MEF001W  
CALIB. REF: BF01002A BF01002A BF01002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	11600	116	10000	11800	118	1	50-150	30
Isopropanol	ND	10000	10400	104	10000	11800	118	13	50-150	30
Methanol	ND	10000	10700	107	10000	9720	97	10	50-150	30

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/31/12
Project     : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.   : 12E267                           Date Extracted: 06/01/12 13:51
Sample ID   : EB-053112                       Date Analyzed: 06/01/12 13:51
Lab Samp ID: E267-01                          Dilution Factor: 1
Lab File ID: TF01011A                         Matrix          : WATER
Ext Btch ID: PEF001W                          % Moisture     : NA
Calib. Ref.: TF01006A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.   : 12E267                           Date Extracted: 06/01/12 13:08
Sample ID   : MBLK1W                           Date Analyzed: 06/01/12 13:08
Lab Samp ID: PEF001WB                         Dilution Factor: 1
Lab File ID: TF01009A                        Matrix          : WATER
Ext Btch ID: PEF001W                          % Moisture     : NA
Calib. Ref.: TF01006A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 8015M

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PEF001WB PEF001WL PEF001WC  
LAB FILE ID: TF01009A TF01007A TF01008A  
DATE EXTRACTED: 06/01/1213:08 06/01/1211:33 06/01/1212:01 DATE COLLECTED: NA  
DATE ANALYZED: 06/01/1213:08 06/01/1211:33 06/01/1212:01 DATE RECEIVED: 06/01/12  
PREP. BATCH: PEF001W PEF001W PEF001W  
CALIB. REF: TF01006A TF01006A TF01006A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	49.3	99	50.0	45.6	91	8	50-150	30
Ethylene Glycol	ND	50.0	42.2	84	50.0	39.1	78	8	50-150	30
Propylene Glycol	ND	25.0	22.1	89	25.0	20.1	81	9	50-150	30

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/01/12 09:10
Sample ID:   SL-608-SA5C-SB-2.0-3.0            Date Analyzed: 06/01/12 15:29
Lab Samp ID: E267-05                           Dilution Factor: 1
Lab File ID: TF01015A                          Matrix          : SOIL
Ext Btch ID: PEF001S                           % Moisture     : 5.6
Calib. Ref.: TF01006A                          Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	7.9
ETHYLENE GLYCOL	ND	11	5.3
PROPYLENE GLYCOL	ND	11	5.3

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/31/12
Project     : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.   : 12E267                           Date Extracted: 06/01/12 09:10
Sample ID   : SL-610-SA5C-SB-0.0-0.5          Date Analyzed: 06/01/12 15:44
Lab Samp ID: E267-14                           Dilution Factor: 1
Lab File ID: TF01016A                         Matrix          : SOIL
Ext Btch ID: PEF001S                          % Moisture     : 4.6
Calib. Ref.: TF01006A                         Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	7.9
ETHYLENE GLYCOL	ND	10	5.2
PROPYLENE GLYCOL	ND	10	5.2

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/01/12 09:10
Sample ID    : SL-609-SA5C-SB-3.0-4.0          Date Analyzed: 06/01/12 16:02
Lab Samp ID  : E267-16                           Dilution Factor: 1
Lab File ID  : TF01017A                         Matrix          : SOIL
Ext Btch ID  : PEF001S                          % Moisture     : 10.0
Calib. Ref. : TF01006A                         Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.3
ETHYLENE GLYCOL	ND	11	5.6
PROPYLENE GLYCOL	ND	11	5.6

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12E267                           Date Extracted: 06/01/12 09:10
Sample ID    : MBLK1S                           Date Analyzed: 06/01/12 14:11
Lab Samp ID  : PEF001SB                         Dilution Factor: 1
Lab File ID  : TF01012A                        Matrix          : SOIL
Ext Btch ID  : PEF001S                          % Moisture     : NA
Calib. Ref.  : TF01006A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEF001SB PEF001SL PEF001SC  
LAB FILE ID: TF01012A TF01013A TF01014A  
DATE EXTRACTED: 06/01/1209:10 06/01/1209:10 06/01/1209:10 DATE COLLECTED: NA  
DATE ANALYZED: 06/01/1214:11 06/01/1214:40 06/01/1215:02 DATE RECEIVED: 06/01/12  
PREP. BATCH: PEF001S PEF001S PEF001S  
CALIB. REF: TF01006A TF01006A TF01006A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	40.3	81	50.0	41.9	84	4	50-150	50
Ethylene Glycol	ND	50.0	38.5	77	50.0	39.6	79	3	50-150	50
Propylene Glycol	ND	25.0	20.3	81	25.0	20.9	84	3	50-150	50

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/04/12 12:30
Sample ID    : EB-053112                        Date Analyzed: 06/06/12 10:21
Lab Samp ID  : E267-01                          Dilution Factor: 1.01
Lab File ID  : LF05081A                         Matrix          : WATER
Ext Btch ID  : DSF003W                          % Moisture     : NA
Calib. Ref. : LF05074A                         Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.051
EFH(C12-C14)	ND	0.10	0.051
EFH(C15-C20)	ND	0.10	0.051
EFH(C21-C30)	ND	0.10	0.051
EFH(C30-C40)	ND	0.10	0.051
TOTAL EFH(C8-C40)	ND	0.10	0.051

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.853	1.010	84.5	40-130
HEXACOSANE	0.220	0.2525	87.1	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/04/12
Batch No.    : 12E267                             Date Extracted: 06/04/12 12:30
Sample ID    : MBLK1W                             Date Analyzed: 06/06/12 08:06
Lab Samp ID  : DSF003WB                           Dilution Factor: 1
Lab File ID  : LF05073A                           Matrix          : WATER
Ext Btch ID  : DSF003W                             % Moisture      : NA
Calib. Ref.  : LF05062A                           Instrument ID    : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.868	1.000	86.8	40-130
HEXACOSANE	0.225	0.2500	90.2	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSF003WB DSF003WL DSF003WC  
LAB FILE ID: LF05073A LF05071A LF05072A  
DATE EXTRACTED: 06/04/1212:30 06/04/1212:30 06/04/1212:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1208:06 06/06/1207:32 06/06/1207:49 DATE RECEIVED: 06/04/12  
PREP. BATCH: DSF003W DSF003W DSF003W  
CALIB. REF: LF05062A LF05062A LF05062A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.71	94	5.00	4.88	98	3	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.889	89	1.00	0.842	84	40-130
Hexacosane	0.250	0.232	93	0.250	0.226	90	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 09:51
Sample ID:   SL-608-SA5C-SB-2.0-3.0            Date Analyzed: 06/06/12 13:32
Lab Samp ID: E267-05                            Dilution Factor: 1
Lab File ID: LF05090A                          Matrix          : SOIL
Ext Btch ID: DSF004S                            % Moisture     : 5.6
Calib. Ref.: LF05086A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.6
EFH(C12-C14)	ND	5.3	2.6
EFH(C15-C20)	ND	5.3	2.6
EFH(C21-C30)	ND	5.3	2.6
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.0	105.9	71.8	50-150
HEXACOSANE	20.0	26.48	75.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                       Date Received: 05/31/12
Batch No.    : 12E267                             Date Extracted: 06/05/12 09:51
Sample ID:   SL-611-SA5C-SB-0.0-0.5              Date Analyzed: 06/06/12 18:53
Lab Samp ID: E267-07                             Dilution Factor: 1
Lab File ID: LF05104A                            Matrix          : SOIL
Ext Btch ID: DSF004S                              % Moisture     : 8.7
Calib. Ref.: LF05098A                            Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	3.2J	5.5	2.7
EFH(C30-C40)	9.8J	11	5.5
TOTAL EFH(C8-C40)	13	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.2	109.5	69.5	50-150
HEXACOSANE	21.3	27.38	77.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 09:51
Sample ID:   SL-611-SA5C-SB-5.0-6.0           Date Analyzed: 06/06/12 19:10
Lab Samp ID: E267-08                           Dilution Factor: 1
Lab File ID: LF05105A                          Matrix          : SOIL
Ext Btch ID: DSF004S                           % Moisture     : 11.0
Calib. Ref.: LF05098A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	9.5	5.6	2.8
EFH(C30-C40)	21	11	5.6
TOTAL EFH(C8-C40)	31	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.4	112.4	67.1	50-150
HEXACOSANE	21.3	28.09	75.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 09:51
Sample ID    : SL-610-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 15:30
Lab Samp ID  : E267-14                           Dilution Factor: 1
Lab File ID  : LF05097A                          Matrix          : SOIL
Ext Btch ID  : DSF004S                           % Moisture     : 4.6
Calib. Ref.  : LF05086A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.2	2.6
EFH(C12-C14)	ND	5.2	2.6
EFH(C15-C20)	ND	5.2	2.6
EFH(C21-C30)	19	5.2	2.6
EFH(C30-C40)	54	10	5.2
TOTAL EFH(C8-C40)	73	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	54.9	104.8	52.3	50-150
HEXACOSANE	16.5	26.21	63.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 09:51
Sample ID    : SL-609-SA5C-SB-3.0-4.0          Date Analyzed: 06/06/12 13:48
Lab Samp ID  : E267-16                          Dilution Factor: 1
Lab File ID  : LF05091A                        Matrix          : SOIL
Ext Btch ID  : DSF004S                          % Moisture     : 10.0
Calib. Ref.  : LF05086A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	82.5	111.1	74.2	50-150
HEXACOSANE	21.5	27.78	77.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 09:51
Sample ID:   SL-612-SA5C-SB-4.0-5.0           Date Analyzed: 06/06/12 17:44
Lab Samp ID: E267-18                           Dilution Factor: 1
Lab File ID: LF05100A                          Matrix          : SOIL
Ext Btch ID: DSF004S                            % Moisture     : 7.2
Calib. Ref.: LF05098A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.2	107.8	68.9	50-150
HEXACOSANE	19.9	26.94	73.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 09:51
Sample ID    : SL-912-SA5C-SB-4.0-5.0          Date Analyzed: 06/06/12 14:05
Lab Samp ID  : E267-20                          Dilution Factor: 1
Lab File ID  : LF05092A                         Matrix          : SOIL
Ext Btch ID  : DSF004S                          % Moisture     : 6.5
Calib. Ref.  : LF05086A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	ND	5.3	2.7
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.6	107.0	74.4	50-150
HEXACOSANE	20.9	26.74	78.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 09:51
Sample ID    : SL-612-SA5C-SB-7.0-8.0          Date Analyzed: 06/06/12 18:36
Lab Samp ID  : E267-22                           Dilution Factor: 1
Lab File ID  : LF05103A                          Matrix          : SOIL
Ext Btch ID  : DSF004S                           % Moisture     : 10.0
Calib. Ref.  : LF05098A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.9	111.1	68.3	50-150
HEXACOSANE	20.1	27.78	72.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 09:51
Sample ID    : MBLK1S                           Date Analyzed: 06/06/12 11:50
Lab Samp ID  : DSF004SB                         Dilution Factor: 1
Lab File ID  : LF05084A                        Matrix          : SOIL
Ext Btch ID  : DSF004S                          % Moisture     : NA
Calib. Ref.  : LF05074A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.7	100.0	73.7	50-150
HEXACOSANE	18.9	25.00	75.7	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF004SB DSF004SL DSF004SC  
LAB FILE ID: LF05084A LF05082A LF05083A  
DATE EXTRACTED: 06/05/1209:51 06/05/1209:51 06/05/1209:51 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1211:50 06/06/1210:38 06/06/1211:33 DATE RECEIVED: 06/05/12  
PREP. BATCH: DSF004S DSF004S DSF004S  
CALIB. REF: LF05074A LF05074A LF05074A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	414	83	500	449	90	8	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	77.7	78	100	81.2	81	50-150
Hexacosane	25.0	19.6	78	25.0	20.2	81	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 7.2  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-612-SA5C-SB-4.0-5.0  
LAB SAMP ID: E267-18 E267-18M E267-18S  
LAB FILE ID: LF05100A LF05101A LF05102A  
DATE EXTRACTED: 06/05/1209:51 06/05/1209:51 06/05/1209:51 DATE COLLECTED: 05/31/12  
DATE ANALYZED: 06/06/1217:44 06/06/1218:02 06/06/1218:19 DATE RECEIVED: 05/31/12  
PREP. BATCH: DSF004S DSF004S DSF004S  
CALIB. REF: LF05098A LF05098A LF05098A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	539	424	79	539	405	75	5	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	108	81.8	76	108	75.6	70	50-150
Hexacosane	26.9	21.0	78	26.9	19.9	74	50-150

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/04/12 12:15
Sample ID    : EB-053112                        Date Analyzed: 06/07/12 16:18
Lab Samp ID  : E267-01                          Dilution Factor: 1.05
Lab File ID  : SF07015A                        Matrix          : WATER
Ext Btch ID  : CPF003W                          % Moisture      : NA
Calib. Ref.  : SF07008A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.52   0.52
AROCLOR 1221	(ND)   ND	1.0	0.52   0.52
AROCLOR 1232	(ND)   ND	1.0	0.52   0.52
AROCLOR 1242	(ND)   ND	1.0	0.52   0.52
AROCLOR 1248	(ND)   ND	1.0	0.52   0.52
AROCLOR 1254	(ND)   ND	1.0	0.52   0.52
AROCLOR 1260	(ND)   ND	1.0	0.52   0.52
AROCLOR 1262	(ND)   ND	1.0	0.52   0.52
AROCLOR 1268	(ND)   ND	1.0	0.52   0.52
AROCLOR 5432	(ND)   ND	2.1	1.0   1.0
AROCLOR 5442	(ND)   ND	2.1	1.0   1.0
AROCLOR 5460	(ND)   ND	2.1	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	0.3593   (0.3691)	0.4200	85.5   (87.9)	45-120
TETRACHLORO-M-XYLENE	0.2981   (0.3013)	0.4200	71.0   (71.7)	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/04/12
Batch No.    : 12E267                             Date Extracted: 06/04/12 12:15
Sample ID    : MBLK1W                             Date Analyzed: 06/07/12 14:01
Lab Samp ID  : 60F003WB                           Dilution Factor: 1
Lab File ID  : SF07011A                           Matrix          : WATER
Ext Btch ID  : CPF003W                             % Moisture      : NA
Calib. Ref.  : SF07008A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	0.3098   (0.3237)	0.4000	77.4   (80.9)	45-120
TETRACHLORO-M-XYLENE	(0.2779)   0.2671	0.4000	(69.5)   66.8	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: 60F003WB 60F003WX 60F003WY  
LAB FILE ID: SF07011A SF07012A SF07013A  
DATE EXTRACTED: 06/04/1212:15 06/04/1212:15 06/04/1212:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1214:01 06/07/1214:36 06/07/1215:10 DATE RECEIVED: 06/04/12  
PREP. BATCH: CPF003W CPF003W CPF003W  
CALIB. REF: SF07008A SF07008A SF07008A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	4.40   (4.71)	88   (94)	5.00	(4.26)   4.18	(85)   84	(3)   12	50-130	30
Aroclor 1260	(ND)   ND	5.00	(5.04)   4.98	(101)   100	5.00	(4.76)   4.72	(95)   94	(6)   5	60-150	30
Aroclor 5460	(ND)   ND	2.50	(2.94)   2.83	(118)   113	2.50	(2.82)   2.71	(113)   108	(4)   4	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	0.3495   (0.3657)	87.4   (91.4)	0.4000	0.3476   (0.3620)	86.9   (90.5)	45-120
Tetrachloro-m-xylene	0.4000	(0.3330)   0.3291	(83.3)   82.3	0.4000	(0.3215)   0.3065	(80.4)   76.6	30-140

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 16:15
Sample ID:   SL-608-SA5C-SB-2.0-3.0            Date Analyzed: 06/08/12 00:52
Lab Samp ID: E267-05                            Dilution Factor: 1
Lab File ID: SF07030A                          Matrix          : SOIL
Ext Btch ID: CPF004S                            % Moisture     : 5.6
Calib. Ref.: SF07027A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.32   (12.73)	14.12	87.2   (90.1)	45-120
TETRACHLORO-M-XYLENE	(11.08)   10.12	14.12	(78.5)   71.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                       Date Received: 05/31/12
Batch No.    : 12E267                             Date Extracted: 06/05/12 16:15
Sample ID    : SL-611-SA5C-SB-0.0-0.5           Date Analyzed: 06/08/12 01:26
Lab Samp ID  : E267-07                             Dilution Factor: 1
Lab File ID  : SF07031A                           Matrix          : SOIL
Ext Btch ID  : CPF004S                             % Moisture     : 8.7
Calib. Ref.  : SF07027A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	10.79   (12.14)	14.60	73.9   (83.1)	45-120
TETRACHLORO-M-XYLENE	(11.12)   10.26	14.60	(76.1)   70.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 16:15
Sample ID:   SL-611-SA5C-SB-5.0-6.0           Date Analyzed: 06/08/12 02:00
Lab Samp ID: E267-08                           Dilution Factor: 1
Lab File ID: SF07032A                          Matrix          : SOIL
Ext Btch ID: CPF004S                            % Moisture     : 11.0
Calib. Ref.: SF07027A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	10.60   (11.44)	14.98	70.8   (76.4)	45-120
TETRACHLORO-M-XYLENE	(12.26)   10.96	14.98	(81.9)   73.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 16:15
Sample ID:   SL-613-SA5C-SB-4.0-5.0           Date Analyzed: 06/08/12 02:34
Lab Samp ID: E267-10                           Dilution Factor: 1
Lab File ID: SF07033A                          Matrix          : SOIL
Ext Btch ID: CPF004S                            % Moisture     : 7.1
Calib. Ref.: SF07027A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIIPHENYL	(11.33)   11.31	14.35	(79.0)   78.8	45-120
TETRACHLORO-M-XYLENE	(8.607)   7.603	14.35	(60.0)   53.0	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/31/12
Project     : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.   : 12E267                           Date Extracted: 06/05/12 16:15
Sample ID:  SL-613-SA5C-SB-7.5-8.5           Date Analyzed: 06/08/12 03:09
Lab Samp ID: E267-11                           Dilution Factor: 1
Lab File ID: SF07034A                          Matrix          : SOIL
Ext Btch ID: CPF004S                            % Moisture     : 10.2
Calib. Ref.: SF07027A                          Instrument ID  : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.09   (12.20)	14.84	81.4   (82.2)	45-120
TETRACHLORO-M-XYLENE	(11.54)   10.39	14.84	(77.7)   70.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 16:15
Sample ID    : SL-614-SA5C-SB-0.0-0.5          Date Analyzed: 06/08/12 03:43
Lab Samp ID  : E267-12                           Dilution Factor: 1
Lab File ID  : SF07035A                          Matrix          : SOIL
Ext Btch ID  : CPF004S                            % Moisture      : 3.7
Calib. Ref.  : SF07027A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	9.574   (10.56)	13.84	69.2   (76.3)	45-120
TETRACHLORO-M-XYLENE	(11.55)   10.69	13.84	(83.4)   77.2	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 16:15
Sample ID    : SL-614-SA5C-SB-3.0-4.0          Date Analyzed: 06/08/12 04:17
Lab Samp ID  : E267-13                           Dilution Factor: 1
Lab File ID  : SF07036A                          Matrix          : SOIL
Ext Btch ID  : CPF004S                            % Moisture     : 8.0
Calib. Ref.  : SF07027A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.56   (11.87)	14.49	79.8   (81.9)	45-120
TETRACHLORO-M-XYLENE	(11.22)   9.799	14.49	(77.5)   67.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 16:15
Sample ID    : SL-610-SA5C-SB-0.0-0.5          Date Analyzed: 06/08/12 04:51
Lab Samp ID  : E267-14                           Dilution Factor: 1
Lab File ID  : SF07037A                         Matrix          : SOIL
Ext Btch ID  : CPF004S                           % Moisture     : 4.6
Calib. Ref.  : SF07027A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	9.397   (10.55)	13.97	67.3   (75.5)	45-120
TETRACHLORO-M-XYLENE	(11.36)   10.80	13.97	(81.3)   77.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/31/12
Project    : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.  : 12E267                           Date Extracted: 06/05/12 16:15
Sample ID  : SL-609-SA5C-SB-3.0-4.0          Date Analyzed: 06/08/12 05:25
Lab Samp ID: E267-16                           Dilution Factor: 1
Lab File ID: SF07038A                          Matrix          : SOIL
Ext Btch ID: CPF004S                            % Moisture     : 10.0
Calib. Ref.: SF07027A                          Instrument ID  : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(11.80)   11.52	14.81	(79.7)   77.8	45-120
TETRACHLORO-M-XYLENE	(10.69)   9.533	14.81	(72.2)   64.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 16:15
Sample ID    : SL-612-SA5C-SB-4.0-5.0          Date Analyzed: 06/08/12 06:00
Lab Samp ID  : E267-18                           Dilution Factor: 1
Lab File ID  : SF07039A                         Matrix          : SOIL
Ext Btch ID  : CPF004S                           % Moisture     : 7.2
Calib. Ref.  : SF07027A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.73   (11.99)	14.36	81.7   (83.5)	45-120
TETRACHLORO-M-XYLENE	(10.91)   10.01	14.36	(75.9)   69.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 16:15
Sample ID    : SL-912-SA5C-SB-4.0-5.0          Date Analyzed: 06/08/12 07:42
Lab Samp ID  : E267-20                          Dilution Factor: 1
Lab File ID  : SF07042A                         Matrix          : SOIL
Ext Btch ID  : CPF004S                          % Moisture     : 6.5
Calib. Ref.  : SF07027A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.76   (12.10)	14.26	82.5   (84.9)	45-120
TETRACHLORO-M-XYLENE	(10.57)   9.671	14.26	(74.1)   67.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
Batch No.    : 12E267                           Date Extracted: 06/05/12 16:15
Sample ID    : SL-612-SA5C-SB-7.0-8.0          Date Analyzed: 06/08/12 08:17
Lab Samp ID  : E267-22                           Dilution Factor: 1
Lab File ID  : SF07043A                          Matrix          : SOIL
Ext Btch ID  : CPF004S                            % Moisture     : 10.0
Calib. Ref.  : SF07027A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.87   (12.19)	14.81	80.2   (82.3)	45-120
TETRACHLORO-M-XYLENE	(10.32)   8.944	14.81	(69.7)   60.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12E267                             Date Extracted: 06/05/12 16:15
Sample ID    : MBLK1S                             Date Analyzed: 06/07/12 16:53
Lab Samp ID  : 60F004SB                           Dilution Factor: 1
Lab File ID  : SF07016A                           Matrix          : SOIL
Ext Btch ID  : CPF004S                             % Moisture      : NA
Calib. Ref.  : SF07008A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.75   (12.08)	13.33	88.1   (90.6)	45-120
TETRACHLORO-M-XYLENE	(11.70)   10.63	13.33	(87.8)   79.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F004SB 60F004SL 60F004SC  
LAB FILE ID: SF07016A SF07017A SF07018A  
DATE EXTRACTED: 06/05/1216:15 06/05/1216:15 06/05/1216:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1216:53 06/07/1217:27 06/07/1218:01 DATE RECEIVED: 06/05/12  
PREP. BATCH: CPF004S CPF004S CPF004S  
CALIB. REF: SF07008A SF07008A SF07008A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(138)   138	(83)   83	167	(138)   136	(83)   82	(0)   1	50-130	50
Aroclor 1260	(ND)   ND	167	(155)   151	(93)   91	167	(159)   152	(95)   91	(3)   1	60-150	50
Aroclor 5460	(ND)   ND	83.3	(90.0)   86.3	(108)   104	83.3	(87.1)   83.5	(104)   100	(3)   4	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	10.89   (11.42)	81.7   (85.7)	13.33	10.73   (11.24)	80.5   (84.3)	45-120
Tetrachloro-m-xylene	13.33	(10.37)   9.708	(77.8)   72.8	13.33	(9.992)   9.220	(75.0)   69.2	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: 7.2  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-612-SA5C-SB-4.0-5.0  
LAB SAMP ID: E267-18 E267-18M E267-18S  
LAB FILE ID: SF07039A SF07040A SF07041A  
DATE EXTRACTED: 06/05/1216:15 06/05/1216:15 06/05/1216:15 DATE COLLECTED: 05/31/12  
DATE ANALYZED: 06/08/1206:00 06/08/1206:34 06/08/1207:08 DATE RECEIVED: 05/31/12  
PREP. BATCH: CPF004S CPF004S CPF004S  
CALIB. REF: SF07027A SF07027A SF07027A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	180	157   (164)	87   (91)	180	149   (157)	83   (87)	5   (4)	20-160	50
Aroclor 1260	(ND)   ND	180	(174)   164	(97)   91	180	(171)   160	(95)   89	(2)   2	20-160	50
Aroclor 5460	(ND)   ND	89.8	(95.4)   89.2	(106)   99	89.8	(96.4)   89.9	(107)   100	(1)   1	20-160	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.36	12.12   (12.64)	84.4   (88.0)	14.36	12.09   (12.60)	84.2   (87.7)	45-120
Tetrachloro-m-xylene	14.36	(11.19)   10.33	(77.9)   71.9	14.36	(11.32)   10.39	(78.8)   72.3	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/31/12
Project    : SSFL PHASE 3                     Date Received: 05/31/12
SDG NO.    : 12E267                           Date Extracted: 06/05/12 11:00
Sample ID: EB-053112                          Date Analyzed: 06/06/12 17:38
Lab Samp ID: E267-01                          Dilution Factor: 1
Lab File ID: 98F03057                         Matrix          : WATER
Ext Btch ID: IMF009W                          % Moisture     : NA
Calib. Ref.: 98F03049                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	0.0374J	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	0.000502J	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00549J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.00139	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	0.000249J	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	0.0526J	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12E267                           Date Extracted: 06/05/12 11:00
Sample ID   : MBLK1W                           Date Analyzed: 06/06/12 17:10
Lab Samp ID: IMF009WB                         Dilution Factor: 1
Lab File ID: 98F03051                        Matrix          : WATER
Ext Btch ID: IMF009W                          % Moisture     : NA
Calib. Ref.: 98F03049                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E267  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMF009WB IMF009WL IMF009WC  
LAB FILE ID: 98F03051 98F03052 98F03053  
DATIME EXTRACTD: 06/05/1211:00 06/05/1211:00 06/05/1211:00 DATE COLLECTED: NA  
DATIME ANALYZD: 06/06/1217:10 06/06/1217:15 06/06/1217:19 DATE RECEIVED: 06/05/12  
PREP. BATCH: IMF009W IMF009W IMF009W  
CALIB. REF: 98F03049 98F03049 98F03049

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.68	107	2.50	2.61	104	3	80-120	20
Antimony	ND	0.0250	0.0257	103	0.0250	0.0249	100	3	80-120	20
Arsenic	ND	0.0250	0.0257	103	0.0250	0.0252	101	2	80-120	20
Barium	ND	0.0250	0.0256	102	0.0250	0.0251	100	2	80-120	20
Beryllium	ND	0.0250	0.0247	99	0.0250	0.0246	98	1	80-120	20
Boron	ND	0.0250	0.0256	102	0.0250	0.0254	102	1	80-120	20
Cadmium	ND	0.0250	0.0251	101	0.0250	0.0245	98	2	80-120	20
Calcium	ND	2.50	2.73	109	2.50	2.72	109	0	80-120	20
Chromium	ND	0.0250	0.0245	98	0.0250	0.0240	96	2	80-120	20
Cobalt	ND	0.0250	0.0251	100	0.0250	0.0243	97	3	80-120	20
Copper	ND	0.0250	0.0243	97	0.0250	0.0240	96	1	80-120	20
Iron	ND	2.50	2.55	102	2.50	2.55	102	0	80-120	20
Lead	ND	0.0250	0.0245	98	0.0250	0.0241	97	2	80-120	20
Magnesium	ND	2.50	2.72	109	2.50	2.62	105	4	80-120	20
Manganese	ND	0.0250	0.0257	103	0.0250	0.0246	98	5	80-120	20
Molybdenum	ND	0.0250	0.0251	100	0.0250	0.0245	98	2	80-120	20
Nickel	ND	0.0250	0.0245	98	0.0250	0.0239	96	2	80-120	20
Potassium	ND	2.50	2.66	107	2.50	2.63	105	1	80-120	20
Selenium	ND	0.0250	0.0252	101	0.0250	0.0244	98	3	80-120	20
Silver	ND	0.0250	0.0257	103	0.0250	0.0249	100	3	80-120	20
Sodium	ND	2.50	2.65	106	2.50	2.62	105	1	80-120	20
Strontium	ND	0.0250	0.0255	102	0.0250	0.0250	100	2	80-120	20
Thallium	ND	0.0250	0.0251	101	0.0250	0.0250	100	1	80-120	20
Tin	ND	0.0250	0.0258	103	0.0250	0.0252	101	2	80-120	20
Titanium	ND	0.0250	0.0264	106	0.0250	0.0255	102	4	80-120	20
Vanadium	ND	0.0250	0.0247	99	0.0250	0.0242	97	2	80-120	20
Zinc	ND	0.0500	0.0504	101	0.0500	0.0498	100	1	80-120	20
Lithium	ND	0.0250	0.0246	98	0.0250	0.0245	98	0	80-120	20
Phosphorus	ND	0.250	0.289	115	0.250	0.261	104	10	80-120	20
Zirconium	ND	0.0250	0.0251	101	0.0250	0.0246	98	2	80-120	20

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/30/12
Project    : SSFL PHASE 3                     Date Received: 05/31/12
SDG NO.    : 12E267                           Date Extracted: 06/07/12 10:30
Sample ID: SL-619-SA5C-SB-0.0-0.5           Date Analyzed: 06/08/12 16:37
Lab Samp ID: E267-02                          Dilution Factor: 0.990
Lab File ID: 98F05027                         Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : 5.5
Calib. Ref.: 98F05017                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8390	105	12.6
Antimony	0.236J	0.524	0.105
Arsenic	4.83	0.524	0.210
Barium	61.0	0.524	0.210
Beryllium	0.369J	0.524	0.0524
Boron	ND	5.24	2.62
Cadmium	0.183J	0.524	0.0524
Calcium	5550	21.0	10.5
Chromium	16.3	0.524	0.210
Cobalt	4.15	0.524	0.0524
Copper	8.10	0.524	0.210
Iron	17100	105	10.5
Lead	3.62	0.524	0.105
Magnesium	3830	10.5	5.24
Manganese	192	0.524	0.262
Molybdenum	2.98	0.524	0.0524
Nickel	9.81	0.524	0.210
Potassium	1960	105	31.4
Selenium	ND	0.524	0.210
Silver	ND	0.524	0.0524
Sodium	124	105	52.4
Strontium	28.8	0.524	0.262
Thallium	0.207J	0.419	0.0524
Tin	ND	10.5	5.24
Titanium	703	1.05	0.524
Vanadium	30.7	0.524	0.0524
Zinc	45.2	5.24	1.57
Lithium	19.5	2.10	1.05
Phosphorus	701	12.6	6.29
Zirconium	ND	5.24	2.62

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/30/12
Project     : SSFL PHASE 3                     Date Received: 05/31/12
SDG NO.    : 12E267                           Date Extracted: 06/07/12 10:30
Sample ID:  SL-618-SA5C-SB-0.0-1.0           Date Analyzed: 06/08/12 17:04
Lab Samp ID: E267-03                          Dilution Factor: 0.995
Lab File ID: 98F05033                         Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : 4.5
Calib. Ref.: 98F05029                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8010	104	12.5
Antimony	0.207J	0.521	0.104
Arsenic	4.53	0.521	0.208
Barium	86.6	0.521	0.208
Beryllium	0.331J	0.521	0.0521
Boron	ND	5.21	2.60
Cadmium	0.0950J	0.521	0.0521
Calcium	2680	20.8	10.4
Chromium	15.6	0.521	0.208
Cobalt	4.45	0.521	0.0521
Copper	6.51	0.521	0.208
Iron	15900	104	10.4
Lead	3.24	0.521	0.104
Magnesium	3640	10.4	5.21
Manganese	192	0.521	0.260
Molybdenum	0.455J	0.521	0.0521
Nickel	8.76	0.521	0.208
Potassium	2320	104	31.3
Selenium	ND	0.521	0.208
Silver	ND	0.521	0.0521
Sodium	109	104	52.1
Strontium	17.4	0.521	0.260
Thallium	0.211J	0.417	0.0521
Tin	ND	10.4	5.21
Titanium	760	1.04	0.521
Vanadium	28.9	0.521	0.0521
Zinc	44.6	5.21	1.56
Lithium	20.1	2.08	1.04
Phosphorus	431	12.5	6.25
Zirconium	ND	5.21	2.60

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/31/12
Project     : SSFL PHASE 3                     Date Received: 05/31/12
SDG NO.    : 12E267                            Date Extracted: 06/07/12 10:30
Sample ID:  SL-608-SA5C-SB-2.0-3.0           Date Analyzed: 06/08/12 17:09
Lab Samp ID: E267-05                          Dilution Factor: 0.971
Lab File ID: 98F05034                         Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : 5.6
Calib. Ref.: 98F05029                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10100	103	12.3
Antimony	0.209J	0.514	0.103
Arsenic	3.24	0.514	0.206
Barium	76.6	0.514	0.206
Beryllium	0.453J	0.514	0.0514
Boron	ND	5.14	2.57
Cadmium	0.0907J	0.514	0.0514
Calcium	2420	20.6	10.3
Chromium	15.3	0.514	0.206
Cobalt	5.06	0.514	0.0514
Copper	5.96	0.514	0.206
Iron	18600	103	10.3
Lead	3.66	0.514	0.103
Magnesium	4440	10.3	5.14
Manganese	247	0.514	0.257
Molybdenum	0.228J	0.514	0.0514
Nickel	8.06	0.514	0.206
Potassium	2450	103	30.9
Selenium	ND	0.514	0.206
Silver	ND	0.514	0.0514
Sodium	157	103	51.4
Strontium	16.9	0.514	0.257
Thallium	0.237J	0.411	0.0514
Tin	ND	10.3	5.14
Titanium	997	1.03	0.514
Vanadium	29.6	0.514	0.0514
Zinc	50.7	5.14	1.54
Lithium	17.6	2.06	1.03
Phosphorus	307	12.3	6.17
Zirconium	ND	5.14	2.57

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
SDG NO.     : 12E267                           Date Extracted: 06/07/12 10:30
Sample ID   : SL-611-SA5C-SB-0.0-0.5          Date Analyzed: 06/08/12 17:13
Lab Samp ID : E267-07                           Dilution Factor: 0.980
Lab File ID : 98F05035                         Matrix          : SOIL
Ext Btch ID : IMF015S                          % Moisture     : 8.7
Calib. Ref. : 98F05029                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10200	107	12.9
Antimony	0.229J	0.537	0.107
Arsenic	3.65	0.537	0.215
Barium	85.7	0.537	0.215
Beryllium	0.437J	0.537	0.0537
Boron	ND	5.37	2.68
Cadmium	0.207J	0.537	0.0537
Calcium	5280	21.5	10.7
Chromium	14.8	0.537	0.215
Cobalt	5.04	0.537	0.0537
Copper	9.13	0.537	0.215
Iron	16900	107	10.7
Lead	5.45	0.537	0.107
Magnesium	3440	10.7	5.37
Manganese	240	0.537	0.268
Molybdenum	4.69	0.537	0.0537
Nickel	10.7	0.537	0.215
Potassium	2580	107	32.2
Selenium	0.569	0.537	0.215
Silver	ND	0.537	0.0537
Sodium	91.8J	107	53.7
Strontium	29.7	0.537	0.268
Thallium	0.189J	0.429	0.0537
Tin	ND	10.7	5.37
Titanium	614	1.07	0.537
Vanadium	29.9	0.537	0.0537
Zinc	41.1	5.37	1.61
Lithium	12.0	2.15	1.07
Phosphorus	488	12.9	6.44
Zirconium	ND	5.37	2.68

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/31/12
Project      : SSFL PHASE 3                     Date Received: 05/31/12
SDG NO.     : 12E267                           Date Extracted: 06/07/12 10:30
Sample ID   : SL-611-SA5C-SB-5.0-6.0          Date Analyzed: 06/08/12 17:18
Lab Samp ID : E267-08                           Dilution Factor: 0.966
Lab File ID : 98F05036                         Matrix          : SOIL
Ext Btch ID : IMF015S                          % Moisture     : 11.0
Calib. Ref. : 98F05029                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13500	109	13.0
Antimony	0.197J	0.543	0.109
Arsenic	4.37	0.543	0.217
Barium	57.3	0.543	0.217
Beryllium	0.542J	0.543	0.0543
Boron	ND	5.43	2.71
Cadmium	0.0770J	0.543	0.0543
Calcium	2280	21.7	10.9
Chromium	16.2	0.543	0.217
Cobalt	3.16	0.543	0.0543
Copper	5.75	0.543	0.217
Iron	19500	109	10.9
Lead	5.08	0.543	0.109
Magnesium	3910	10.9	5.43
Manganese	114	0.543	0.271
Molybdenum	0.371J	0.543	0.0543
Nickel	6.18	0.543	0.217
Potassium	1350	109	32.6
Selenium	ND	0.543	0.217
Silver	0.0670J	0.543	0.0543
Sodium	116	109	54.3
Strontium	23.1	0.543	0.271
Thallium	0.216J	0.434	0.0543
Tin	ND	10.9	5.43
Titanium	889	1.09	0.543
Vanadium	33.7	0.543	0.0543
Zinc	36.3	5.43	1.63
Lithium	17.0	2.17	1.09
Phosphorus	116	13.0	6.51
Zirconium	ND	5.43	2.71

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/31/12
Project     : SSFL PHASE 3                     Date Received: 05/31/12
SDG NO.    : 12E267                           Date Extracted: 06/07/12 10:30
Sample ID:  SL-610-SA5C-SB-0.0-0.5           Date Analyzed: 06/08/12 17:23
Lab Samp ID: E267-14                          Dilution Factor: 0.952
Lab File ID: 98F05037                         Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : 4.6
Calib. Ref.: 98F05029                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8970	99.8	12.0
Antimony	1.30	0.499	0.0998
Arsenic	2.85	0.499	0.200
Barium	109	0.499	0.200
Beryllium	0.319J	0.499	0.0499
Boron	3.00J	4.99	2.49
Cadmium	0.598	0.499	0.0499
Calcium	13400	20.0	9.98
Chromium	17.5	0.499	0.200
Cobalt	5.30	0.499	0.0499
Copper	13.4	0.499	0.200
Iron	16500	99.8	9.98
Lead	47.6	0.499	0.0998
Magnesium	4310	9.98	4.99
Manganese	232	0.499	0.249
Molybdenum	1.37	0.499	0.0499
Nickel	9.94	0.499	0.200
Potassium	3710	99.8	29.9
Selenium	ND	0.499	0.200
Silver	0.0832J	0.499	0.0499
Sodium	149	99.8	49.9
Strontium	40.0	0.499	0.249
Thallium	0.192J	0.399	0.0499
Tin	ND	9.98	4.99
Titanium	971	0.998	0.499
Vanadium	29.4	0.499	0.0499
Zinc	84.4	4.99	1.50
Lithium	13.6	2.00	0.998
Phosphorus	560	12.0	5.99
Zirconium	ND	4.99	2.49

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/31/12
Project     : SSFL PHASE 3                     Date Received: 05/31/12
SDG NO.    : 12E267                           Date Extracted: 06/07/12 10:30
Sample ID:  SL-609-SA5C-SB-3.0-4.0           Date Analyzed: 06/08/12 17:27
Lab Samp ID: E267-16                          Dilution Factor: 0.962
Lab File ID: 98F05038                         Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : 10.0
Calib. Ref.: 98F05029                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14700	107	12.8
Antimony	0.236J	0.534	0.107
Arsenic	4.64	0.534	0.214
Barium	89.7	0.534	0.214
Beryllium	0.662	0.534	0.0534
Boron	ND	5.34	2.67
Cadmium	0.0976J	0.534	0.0534
Calcium	3060	21.4	10.7
Chromium	20.7	0.534	0.214
Cobalt	5.85	0.534	0.0534
Copper	8.78	0.534	0.214
Iron	22200	107	10.7
Lead	5.95	0.534	0.107
Magnesium	5480	10.7	5.34
Manganese	185	0.534	0.267
Molybdenum	0.599	0.534	0.0534
Nickel	11.3	0.534	0.214
Potassium	2350	107	32.1
Selenium	ND	0.534	0.214
Silver	ND	0.534	0.0534
Sodium	326	107	53.4
Strontium	24.3	0.534	0.267
Thallium	0.257J	0.428	0.0534
Tin	ND	10.7	5.34
Titanium	1080	1.07	0.534
Vanadium	37.4	0.534	0.0534
Zinc	58.8	5.34	1.60
Lithium	22.0	2.14	1.07
Phosphorus	376	12.8	6.41
Zirconium	ND	5.34	2.67

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/31/12
Project     : SSFL PHASE 3                     Date Received: 05/31/12
SDG NO.    : 12E267                           Date Extracted: 06/07/12 10:30
Sample ID:  SL-612-SA5C-SB-4.0-5.0           Date Analyzed: 06/08/12 16:28
Lab Samp ID: E267-18                          Dilution Factor: 0.939
Lab File ID: 98F05025                         Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : 7.2
Calib. Ref.: 98F05017                         Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11700	101	12.1
Antimony	0.331J	0.506	0.101
Arsenic	6.20	0.506	0.202
Barium	113	0.506	0.202
Beryllium	0.822	0.506	0.0506
Boron	ND	5.06	2.53
Cadmium	0.227J	0.506	0.0506
Calcium	6370	20.2	10.1
Chromium	20.4	0.506	0.202
Cobalt	8.11	0.506	0.0506
Copper	12.1	0.506	0.202
Iron	23300	101	10.1
Lead	13.1	0.506	0.101
Magnesium	4750	10.1	5.06
Manganese	220	0.506	0.253
Molybdenum	0.453J	0.506	0.0506
Nickel	13.6	0.506	0.202
Potassium	2100	101	30.4
Selenium	ND	0.506	0.202
Silver	ND	0.506	0.0506
Sodium	314	101	50.6
Strontium	33.6	0.506	0.253
Thallium	0.269J	0.405	0.0506
Tin	ND	10.1	5.06
Titanium	783	1.01	0.506
Vanadium	37.2	0.506	0.0506
Zinc	74.5	5.06	1.52
Lithium	24.0	2.02	1.01
Phosphorus	355	12.1	6.07
Zirconium	ND	5.06	2.53

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/31/12
Project     : SSFL PHASE 3                     Date Received: 05/31/12
SDG NO.    : 12E267                           Date Extracted: 06/07/12 10:30
Sample ID:  SL-912-SA5C-SB-4.0-5.0           Date Analyzed: 06/08/12 17:50
Lab Samp ID: E267-20                          Dilution Factor: 0.985
Lab File ID: 98F05043                         Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : 6.5
Calib. Ref.: 98F05041                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12900	105	12.6
Antimony	0.210J	0.527	0.105
Arsenic	6.91	0.527	0.211
Barium	117	0.527	0.211
Beryllium	0.868	0.527	0.0527
Boron	ND	5.27	2.63
Cadmium	0.136J	0.527	0.0527
Calcium	5540	21.1	10.5
Chromium	21.6	0.527	0.211
Cobalt	6.58	0.527	0.0527
Copper	13.5	0.527	0.211
Iron	25200	105	10.5
Lead	8.06	0.527	0.105
Magnesium	5140	10.5	5.27
Manganese	174	0.527	0.263
Molybdenum	0.276J	0.527	0.0527
Nickel	14.1	0.527	0.211
Potassium	1470	105	31.6
Selenium	ND	0.527	0.211
Silver	ND	0.527	0.0527
Sodium	428	105	52.7
Strontium	37.4	0.527	0.263
Thallium	0.246J	0.421	0.0527
Tin	ND	10.5	5.27
Titanium	680	1.05	0.527
Vanadium	37.9	0.527	0.0527
Zinc	61.9	5.27	1.58
Lithium	26.7	2.11	1.05
Phosphorus	329	12.6	6.32
Zirconium	ND	5.27	2.63

METHOD 6020  
 METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/31/12
Project     : SSFL PHASE 3                     Date Received: 05/31/12
SDG NO.    : 12E267                            Date Extracted: 06/07/12 10:30
Sample ID   : SL-612-SA5C-SB-7.0-8.0         Date Analyzed: 06/08/12 17:55
Lab Samp ID: E267-22                           Dilution Factor: 0.995
Lab File ID: 98F05044                          Matrix          : SOIL
Ext Btch ID: IMF015S                           % Moisture     : 10.0
Calib. Ref.: 98F05041                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15400	111	13.3
Antimony	0.276J	0.553	0.111
Arsenic	9.84	0.553	0.221
Barium	110	0.553	0.221
Beryllium	1.14	0.553	0.0553
Boron	ND	5.53	2.76
Cadmium	0.174J	0.553	0.0553
Calcium	5250	22.1	11.1
Chromium	26.1	0.553	0.221
Cobalt	12.8	0.553	0.0553
Copper	19.5	0.553	0.221
Iron	35500	111	11.1
Lead	9.17	0.553	0.111
Magnesium	6150	11.1	5.53
Manganese	389	0.553	0.276
Molybdenum	0.446J	0.553	0.0553
Nickel	20.1	0.553	0.221
Potassium	1900	111	33.2
Selenium	ND	0.553	0.221
Silver	ND	0.553	0.0553
Sodium	932	111	55.3
Strontium	46.9	0.553	0.276
Thallium	0.283J	0.442	0.0553
Tin	ND	11.1	5.53
Titanium	721	1.11	0.553
Vanadium	49.0	0.553	0.0553
Zinc	73.2	5.53	1.66
Lithium	31.2	2.21	1.11
Phosphorus	489	13.3	6.63
Zirconium	ND	5.53	2.76

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12E267                           Date Extracted: 06/07/12 10:30
Sample ID:  MBLK1S                             Date Analyzed: 06/08/12 16:01
Lab Samp ID: IMF015SB                         Dilution Factor: 1
Lab File ID: 98F05019                        Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : NA
Calib. Ref.: 98F05017                        Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E267  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF015SB IMF015SL IMF015SC  
LAB FILE ID: 98F05019 98F05031 98F05032  
DATIME EXTRACTD: 06/07/1210:30 06/07/1210:30 06/07/1210:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/08/1216:01 06/08/1216:55 06/08/1217:00 DATE RECEIVED: 06/07/12  
PREP. BATCH: IMF015S IMF015S IMF015S  
CALIB. REF: 98F05017 98F05029 98F05029

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2460	98	2500	2420	97	2	80-120	20
Antimony	ND	25.0	25.0	100	25.0	24.9	100	0	80-120	20
Arsenic	ND	25.0	24.3	97	25.0	24.2	97	0	80-120	20
Barium	ND	25.0	24.8	99	25.0	24.6	99	1	80-120	20
Beryllium	ND	25.0	25.8	103	25.0	25.5	102	1	80-120	20
Boron	ND	25.0	26.7	107	25.0	26.2	105	2	80-120	20
Cadmium	ND	25.0	24.3	97	25.0	24.2	97	1	80-120	20
Calcium	ND	2500	2630	105	2500	2640	106	0	80-120	20
Chromium	ND	25.0	24.4	98	25.0	24.5	98	0	80-120	20
Cobalt	ND	25.0	24.7	99	25.0	24.4	98	1	80-120	20
Copper	ND	25.0	24.2	97	25.0	24.2	97	0	80-120	20
Iron	ND	2500	2550	102	2500	2570	103	1	80-120	20
Lead	ND	25.0	24.9	100	25.0	24.5	98	2	80-120	20
Magnesium	ND	2500	2440	98	2500	2410	96	2	80-120	20
Manganese	ND	25.0	24.9	100	25.0	24.7	99	1	80-120	20
Molybdenum	ND	25.0	24.1	96	25.0	24.2	97	0	80-120	20
Nickel	ND	25.0	24.2	97	25.0	24.2	97	0	80-120	20
Potassium	ND	2500	2630	105	2500	2630	105	0	80-120	20
Selenium	ND	25.0	23.9	96	25.0	24.0	96	0	80-120	20
Silver	ND	25.0	24.3	97	25.0	24.2	97	0	80-120	20
Sodium	ND	2500	2540	102	2500	2560	102	1	80-120	20
Strontium	ND	25.0	24.9	100	25.0	24.7	99	1	80-120	20
Thallium	ND	25.0	24.8	99	25.0	24.5	98	1	80-120	20
Tin	ND	25.0	26.7	107	25.0	26.8	107	0	80-120	20
Titanium	ND	25.0	24.7	99	25.0	24.6	98	0	80-120	20
Vanadium	ND	25.0	24.4	98	25.0	24.3	97	0	80-120	20
Zinc	ND	50.0	47.6	95	50.0	47.9	96	1	80-120	20
Lithium	ND	25.0	25.2	101	25.0	25.4	101	1	80-120	20
Phosphorus	ND	250	235	94	250	232	93	1	80-120	20
Zirconium	ND	25.0	23.0	92	25.0	23.5	94	2	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E267  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.2  
DILTN FACTR: 0.939 0.995 0.957  
SAMPLE ID: SL-612-SA5C-SB-4.0-5.0  
CONTROL NO.: E267-18 E267-18M E267-18S  
LAB FILE ID: 98F05025 98F05022 98F05023  
DATIME EXTRACTD: 06/07/1210:30 06/07/1210:30 06/07/1210:30 DATE COLLECTED: 05/31/12  
DATIME ANALYZD: 06/08/1216:28 06/08/1216:15 06/08/1216:19 DATE RECEIVED: 05/31/12  
PREP. BATCH: IMF015S IMF015S IMF015S  
CALIB. REF: 98F05017 98F05017 98F05017

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	11700	2680	13400	65*	2580	13900	84	3	75-125	20
Antimony	0.331J	26.8	21.6	79	25.8	22.8	87	6	75-125	20
Arsenic	6.20	26.8	28.9	85	25.8	29.9	92	4	75-125	20
Barium	113	26.8	132	71*	25.8	135	85	2	75-125	20
Beryllium	0.822	26.8	26.7	97	25.8	27.6	104	3	75-125	20
Boron	ND	26.8	27.3	102	25.8	28.3	110	3	75-125	20
Cadmium	0.227J	26.8	24.5	90	25.8	25.0	96	2	75-125	20
Calcium	6370	2680	8620	84	2580	8810	95	2	75-125	20
Chromium	20.4	26.8	41.6	79	25.8	43.4	89	4	75-125	20
Cobalt	8.11	26.8	30.9	85	25.8	31.0	89	1	75-125	20
Copper	12.1	26.8	33.7	80	25.8	34.8	88	3	75-125	20
Iron	23300	2680	24500	48*	2580	25100	70*	2	75-125	20
Lead	13.1	26.8	36.7	88	25.8	38.0	96	3	75-125	20
Magnesium	4750	2680	6630	70*	2580	6910	84	4	75-125	20
Manganese	220	26.8	247	102	25.8	242	85	2	75-125	20
Molybdenum	0.453J	26.8	24.2	89	25.8	25.3	96	4	75-125	20
Nickel	13.6	26.8	35.4	81	25.8	36.7	89	4	75-125	20
Potassium	2100	2680	4430	87	2580	4690	100	6	75-125	20
Selenium	ND	26.8	23.8	89	25.8	24.4	95	3	75-125	20
Silver	ND	26.8	24.1	90	25.8	24.9	96	3	75-125	20
Sodium	314	2680	2600	85	2580	2640	90	2	75-125	20
Strontium	33.6	26.8	55.3	81	25.8	57.4	92	4	75-125	20
Thallium	0.269J	26.8	24.6	91	25.8	25.6	98	4	75-125	20
Tin	ND	26.8	27.6	103	25.8	28.7	111	4	75-125	20
Titanium	783	26.8	804	78	25.8	845	242*	5	75-125	20
Vanadium	37.2	26.8	57.9	77	25.8	60.3	90	4	75-125	20
Zinc	74.5	53.6	121	87	51.6	125	98	3	75-125	20
Lithium	24.0	26.8	48.5	91	25.8	50.6	103	4	75-125	20
Phosphorus	355	268	557	75	258	580	87	4	75-125	20
Zirconium	ND	26.8	18.0	67*	25.8	16.0	62*	12	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E267  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 7.2  
DILTN FACTR: 0.939 0.939  
SAMPLE ID: SL-612-SA5C-SB-4.0-5.0  
CONTROL NO.: E267-18 E267-18A  
LAB FILE ID: 98F05025 98F05024  
DATIME EXTRACTD: 06/07/1210:30 06/07/1210:30 DATE COLLECTED: 05/31/12  
DATIME ANALYZD: 06/08/1216:28 06/08/1216:23 DATE RECEIVED: 05/31/12  
PREP. BATCH: IMF015S IMF015S  
CALIB. REF: 98F05017 98F05017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	11700	2530	14100	95	75-125
Antimony	0.331J	25.3	25.4	99	75-125
Arsenic	6.20	25.3	29.1	91	75-125
Barium	113	25.3	137	94	75-125
Beryllium	0.822	25.3	26.9	103	75-125
Boron	ND	25.3	28.3	112	75-125
Cadmium	0.227J	25.3	24.4	96	75-125
Calcium	6370	2530	8940	102	75-125
Chromium	20.4	25.3	42.9	89	75-125
Cobalt	8.11	25.3	31.3	92	75-125
Copper	12.1	25.3	34.1	87	75-125
Iron	23300	2530	25400	86	75-125
Lead	13.1	25.3	37.5	97	75-125
Magnesium	4750	2530	7060	91	75-125
Manganese	220	25.3	244	95	75-125
Molybdenum	0.453J	25.3	24.9	97	75-125
Nickel	13.6	25.3	35.7	87	75-125
Potassium	2100	2530	4620	99	75-125
Selenium	ND	25.3	23.8	94	75-125
Silver	ND	25.3	24.0	95	75-125
Sodium	314	2530	2640	92	75-125
Strontium	33.6	25.3	57.5	95	75-125
Thallium	0.269J	25.3	24.4	95	75-125
Tin	ND	25.3	27.8	110	75-125
Titanium	783	25.3	811	112	75-125
Vanadium	37.2	25.3	59.8	89	75-125
Zinc	74.5	50.6	123	95	75-125
Lithium	24.0	25.3	49.7	101	75-125
Phosphorus	355	253	584	91	75-125
Zirconium	ND	25.3	24.2	95	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E267  
 METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 7.2  
 DILUTION FACTOR: 0.939 4.69  
 SAMPLE ID: SL-612-SA5C-SB SL-612-SA5C-SB  
 EMAX SAMP ID: E267-18 E267-18J  
 LAB FILE ID: 98F05025 98F05026  
 DATE EXTRACTED: 06/07/1210:30 06/07/1210:30 DATE COLLECTED: 05/31/12  
 DATE ANALYZED: 06/08/1216:28 06/08/1216:32 DATE RECEIVED: 05/31/12  
 PREP. BATCH: IMF015S IMF015S  
 CALIB. REF: 98F05017 98F05017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	11700	12400	6	10
Antimony	0.331J	ND	NA	10
Arsenic	6.20	6.56	6	10
Barium	113	107	5	10
Beryllium	0.822	0.832J	NA	10
Boron	ND	ND	0	10
Cadmium	0.227J	ND	NA	10
Calcium	6370	6710	5	10
Chromium	20.4	21.6	6	10
Cobalt	8.11	8.72	7	10
Copper	12.1	13.1	8	10
Iron	23300	24700	6	10
Lead	13.1	13.2	1	10
Magnesium	4750	5010	5	10
Manganese	220	237	8	10
Molybdenum	0.453J	0.462J	NA	10
Nickel	13.6	14.6	7	10
Potassium	2100	2180	4	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	314	334J	NA	10
Strontium	33.6	32.7	3	10
Thallium	0.269J	0.275J	NA	10
Tin	ND	ND	0	10
Titanium	783	808	3	10
Vanadium	37.2	38.8	4	10
Zinc	74.5	76.9	3	10
Lithium	24.0	22.9	5	10
Phosphorus	355	347	2	10
Zirconium	ND	ND	0	10

METHOD 7470A  
 MERCURY BY COLD VAPOR

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E267  
 =====

Matrix : WATER  
 Instrument ID : TI047  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGF004WB	ND	1	NA	0.000500	0.000100	06/05/1219:05	06/05/1215:45	M47F003010	M47F003008	HGF004W	NA	06/05/12
LCS1W	HGF004WL	0.00508	1	NA	0.000500	0.000100	06/05/1219:07	06/05/1215:45	M47F003011	M47F003008	HGF004W	NA	06/05/12
LCD1W	HGF004WC	0.00504	1	NA	0.000500	0.000100	06/05/1219:09	06/05/1215:45	M47F003012	M47F003008	HGF004W	NA	06/05/12
EB-053112	E267-01	ND	1	NA	0.000500	0.000100	06/05/1219:33	06/05/1215:45	M47F003023	M47F003020	HGF004W	05/31/12	05/31/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E267  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGF004WB HGF004WL HGF004WC  
LAB FILE ID: M47F003010 M47F003011 M47F003012  
DATIME EXTRCTD: 06/05/1215:45 06/05/1215:45 06/05/1215:45 DATE COLLECTED: NA  
DATIME ANALYZD: 06/05/1219:05 06/05/1219:07 06/05/1219:09 DATE RECEIVED: 06/05/12  
PREP. BATCH: HGF004W HGF004W HGF004W  
CALIB. REF: M47F003008 M47F003008 M47F003008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00508	102	.005	.00504	101	1	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E267

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGF005SB	ND	1	NA	0.100	0.0500	06/06/1216:34	06/06/1212:30	M47F004010	M47F004008	HGF005S	NA	06/06/12
LCS1S	HGF005SL	0.833	1	NA	0.100	0.0500	06/06/1216:36	06/06/1212:30	M47F004011	M47F004008	HGF005S	NA	06/06/12
LCD1S	HGF005SC	0.827	1	NA	0.100	0.0500	06/06/1216:38	06/06/1212:30	M47F004012	M47F004008	HGF005S	NA	06/06/12
SL-612-SA5C-SB-4.0-5.0AS	E267-18A	0.911	1.00	7.2	0.108	0.0539	06/06/1216:40	06/06/1212:30	M47F004013	M47F004008	HGF005S	05/31/12	05/31/12
SL-612-SA5C-SB-4.0-5.0	E267-18	ND	1.00	7.2	0.108	0.0539	06/06/1216:42	06/06/1212:30	M47F004014	M47F004008	HGF005S	05/31/12	05/31/12
SL-612-SA5C-SB-4.0-5.0DL	E267-18J	ND	5.02	7.2	0.541	0.270	06/06/1216:44	06/06/1212:30	M47F004015	M47F004008	HGF005S	05/31/12	05/31/12
SL-612-SA5C-SB-4.0-5.0MS	E267-18M	0.936	0.998	7.2	0.108	0.0538	06/06/1216:47	06/06/1212:30	M47F004016	M47F004008	HGF005S	05/31/12	05/31/12
SL-612-SA5C-SB-4.0-5.0MSDE	E267-18S	0.911	1.00	7.2	0.108	0.0539	06/06/1216:49	06/06/1212:30	M47F004017	M47F004008	HGF005S	05/31/12	05/31/12
SL-619-SA5C-SB-0.0-0.5	E267-02	ND	0.998	5.5	0.106	0.0528	06/06/1216:51	06/06/1212:30	M47F004018	M47F004008	HGF005S	05/30/12	05/31/12
SL-618-SA5C-SB-0.0-1.0	E267-03	ND	0.988	4.5	0.103	0.0517	06/06/1216:53	06/06/1212:30	M47F004019	M47F004008	HGF005S	05/30/12	05/31/12
SL-608-SA5C-SB-2.0-3.0	E267-05	ND	0.992	5.6	0.105	0.0525	06/06/1217:00	06/06/1212:30	M47F004022	M47F004020	HGF005S	05/31/12	05/31/12
SL-611-SA5C-SB-0.0-0.5	E267-07	ND	1.00	8.7	0.110	0.0548	06/06/1217:02	06/06/1212:30	M47F004023	M47F004020	HGF005S	05/31/12	05/31/12
SL-611-SA5C-SB-5.0-6.0	E267-08	ND	0.997	11.0	0.112	0.0560	06/06/1217:04	06/06/1212:30	M47F004024	M47F004020	HGF005S	05/31/12	05/31/12
SL-610-SA5C-SB-0.0-0.5	E267-14	ND	0.997	4.6	0.105	0.0523	06/06/1217:07	06/06/1212:30	M47F004025	M47F004020	HGF005S	05/31/12	05/31/12
SL-609-SA5C-SB-3.0-4.0	E267-16	ND	0.985	10.0	0.109	0.0547	06/06/1217:09	06/06/1212:30	M47F004026	M47F004020	HGF005S	05/31/12	05/31/12
SL-912-SA5C-SB-4.0-5.0	E267-20	ND	0.987	6.5	0.106	0.0528	06/06/1217:11	06/06/1212:30	M47F004027	M47F004020	HGF005S	05/31/12	05/31/12
SL-612-SA5C-SB-7.0-8.0	E267-22	ND	0.997	10.0	0.111	0.0554	06/06/1217:13	06/06/1212:30	M47F004028	M47F004020	HGF005S	05/31/12	05/31/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E267  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF005SB HGF005SL HGF005SC  
LAB FILE ID: M47F004010 M47F004011 M47F004012  
DATIME EXTRCTD: 06/06/1212:30 06/06/1212:30 06/06/1212:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/06/1216:34 06/06/1216:36 06/06/1216:38 DATE RECEIVED: 06/06/12  
PREP. BATCH: HGF005S HGF005S HGF005S  
CALIB. REF: M47F004008 M47F004008 M47F004008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.833	100	.833	.827	99	1	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E267  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 7.2  
DILTN FACTR: 1.00 0.998 1.00  
SAMPLE ID: SL-612-SA5C-SB-4.0-5.0  
CONTROL NO.: E267-18 E267-18M E267-18S  
LAB FILE ID: M47F004014 M47F004016 M47F004017  
DATIME EXTRCTD: 06/06/1212:30 06/06/1212:30 06/06/1212:30 DATE COLLECTED: 05/31/12  
DATIME ANALYZD: 06/06/1216:42 06/06/1216:47 06/06/1216:49 DATE RECEIVED: 05/31/12  
PREP. BATCH: HGF005S HGF005S HGF005S  
CALIB. REF: M47F004008 M47F004008 M47F004008

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.896	.936	104	.898	.911	101	3	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E267  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 7.2  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-612-SA5C-SB-4.0-5.0  
CONTROL NO.: E267-18 E267-18A  
LAB FILE ID: M47F004014 M47F004013  
DATIME EXTRCTD: 06/06/1212:30 06/06/1212:30 DATE COLLECTED: 05/31/12  
DATIME ANALYZD: 06/06/1216:42 06/06/1216:40 DATE RECEIVED: 05/31/12  
PREP. BATCH: HGF005S HGF005S  
CALIB. REF: M47F004008 M47F004008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.898	.911	101	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E267  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	7.2
DILUTION FACTOR:	1.00	5.02		
SAMPLE ID:	SL-612-SA5C-SB-4.0-	SL-612-SA5C-SB-4.0-		
EMAX SAMP ID:	E267-18	E267-18J		
LAB FILE ID:	M47F004014	M47F004015		
DATE EXTRACTED:	06/06/1212:30	06/06/1212:30	DATE COLLECTED:	05/31/12
DATE ANALYZED:	06/06/1216:42	06/06/1216:44	DATE RECEIVED:	05/31/12
PREP. BATCH:	HGF005S	HGF005S		
CALIB. REF:	M47F004008	M47F004008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 314.0  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E267  
 =====

Matrix : SOIL  
 Instrument ID : I57  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PCF001SB	ND	1	NA	20.0	10.0	06/06/1218:04	06/06/1213:00	JF06002	JF06001	PCF001S	NA	06/06/12
LCS1S	PCF001SL	223	1	NA	20.0	10.0	06/06/1218:46	06/06/1213:00	JF06004	JF06001	PCF001S	NA	06/06/12
LCD1S	PCF001SC	225	1	NA	20.0	10.0	06/06/1219:07	06/06/1213:00	JF06005	JF06001	PCF001S	NA	06/06/12
SL-618-SA5C-SB-0.0-1.0	E267-03	ND	1	4.5	20.9	10.5	06/06/1219:28	06/06/1213:00	JF06006	JF06001	PCF001S	05/30/1214:48	05/31/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 314.0

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PCF001SB PCF001SL PCF001SC  
LAB FILE ID: JF06002 JF06004 JF06005  
DATE EXTRACTED: 06/06/1213:00 06/06/1213:00 06/06/1213:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1218:04 06/06/1218:46 06/06/1219:07 DATE RECEIVED: 06/06/12  
PREP. BATCH: PCF001S PCF001S PCF001S  
CALIB. REF: JF06001 JF06001 JF06001

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	250	223	89	250	225	90	1	85-115	15

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E267  
=====

Matrix : WATER  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLF001WB	ND	1	NA	0.200	0.100	06/05/1216:32	NA	NF05022	NF05014	PLF001W	NA	NA
LCS1W	PLF001WL	1.04	1	NA	0.200	0.100	06/05/1216:46	NA	NF05023	NF05014	PLF001W	NA	NA
LCD1W	PLF001WC	1.10	1	NA	0.200	0.100	06/05/1217:00	NA	NF05024	NF05014	PLF001W	NA	NA
EB-053112	E267-01	ND	1	NA	0.200	0.100	06/05/1217:57	NA	NF05028	NF05025	PLF001W	05/31/1215:15	05/31/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLF001WB PLF001WL PLF001WC  
LAB FILE ID: NF05022 NF05023 NF05024  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1216:32 06/05/1216:46 06/05/1217:00 DATE RECEIVED: NA  
PREP. BATCH: PLF001W PLF001W PLF001W  
CALIB. REF: NF05014 NF05014 NF05014

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	1.04	104	1.00	1.10	110	6	85-115	20

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E267  
=====

Matrix : SOIL  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLF001SB	ND	1	NA	5.00	2.50	06/05/1211:42	06/05/1210:02	NF05004	NF05003	PLF001S	NA	06/05/12
LCS1S	PLF001SL	26.0	1	NA	5.00	2.50	06/05/1212:31	06/05/1210:02	NF05005	NF05003	PLF001S	NA	06/05/12
LCD1S	PLF001SC	25.0	1	NA	5.00	2.50	06/05/1212:45	06/05/1210:02	NF05006	NF05003	PLF001S	NA	06/05/12
SL-611-SA5C-SB-0.0-0.5	E267-07	ND	1	8.7	5.48	2.74	06/05/1214:10	06/05/1210:02	NF05012	NF05003	PLF001S	05/31/1211:29	05/31/12
SL-611-SA5C-SB-5.0-6.0	E267-08	ND	1	11.0	5.62	2.81	06/05/1214:24	06/05/1210:02	NF05013	NF05003	PLF001S	05/31/1211:33	05/31/12
SL-612-SA5C-SB-4.0-5.0	E267-18	ND	1	7.2	5.39	2.69	06/05/1214:53	06/05/1210:02	NF05015	NF05014	PLF001S	05/31/1214:54	05/31/12
SL-912-SA5C-SB-4.0-5.0	E267-20	ND	1	6.5	5.35	2.67	06/05/1215:35	06/05/1210:02	NF05018	NF05014	PLF001S	05/31/1214:58	05/31/12
SL-612-SA5C-SB-7.0-8.0	E267-22	ND	1	10.0	5.56	2.78	06/05/1215:49	06/05/1210:02	NF05019	NF05014	PLF001S	05/31/1215:08	05/31/12
SL-612-SA5C-SB-4.0-5.0MS	E267-18M	27.1	1	7.2	5.39	2.69	06/05/1216:03	06/05/1210:02	NF05020	NF05014	PLF001S	05/31/1214:54	05/31/12
SL-612-SA5C-SB-4.0-5.0MSDE	E267-18S	29.3	1	7.2	5.39	2.69	06/05/1216:18	06/05/1210:02	NF05021	NF05014	PLF001S	05/31/1214:54	05/31/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLF001SB PLF001SL PLF001SC  
LAB FILE ID: NF05004 NF05005 NF05006  
DATE EXTRACTED: 06/05/1210:02 06/05/1210:02 06/05/1210:02 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1211:42 06/05/1212:31 06/05/1212:45 DATE RECEIVED: 06/05/12  
PREP. BATCH: PLF001S PLF001S PLF001S  
CALIB. REF: NF05003 NF05003 NF05003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	26.0	104	25.0	25.0	100	4	85-115	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: 7.2  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-612-SA5C-SB-4.0-5.0  
LAB SAMP ID: E267-18 E267-18M E267-18S  
LAB FILE ID: NF05015 NF05020 NF05021  
DATE EXTRACTED: 06/05/1210:02 06/05/1210:02 06/05/1210:02 DATE COLLECTED: 05/31/12 14:54  
DATE ANALYZED: 06/05/1214:53 06/05/1216:03 06/05/1216:18 DATE RECEIVED: 05/31/12  
PREP. BATCH: PLF001S PLF001S PLF001S  
CALIB. REF: NF05014 NF05014 NF05014

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	26.9	27.1	101	26.9	29.3	109	8	80-120	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E267  
 =====

Matrix : WATER  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCF001WB	ND	1	NA	0.200	0.100	06/01/1210:02	NA	IF01003	IF01001	HCF001W	NA	NA
MBLK1W	HCF001WQ	ND	1	NA	0.200	0.100	06/01/1210:12	NA	IF01004	IF01001	HCF001W	NA	NA
LCS1W	HCF001WL	1.94	1	NA	0.200	0.100	06/01/1210:54	NA	IF01007	IF01001	HCF001W	NA	NA
LCS1W	HCF001WX	2.10	1	NA	0.200	0.100	06/01/1211:04	NA	IF01008	IF01001	HCF001W	NA	NA
LCD1W	HCF001WC	1.80	1	NA	0.200	0.100	06/01/1211:14	NA	IF01009	IF01001	HCF001W	NA	NA
LCD1W	HCF001WY	1.96	1	NA	0.200	0.100	06/01/1211:25	NA	IF01010	IF01001	HCF001W	NA	NA
EB-053112	E267-01	ND	1	NA	0.200	0.100	06/01/1210:22	NA	IF01005	IF01001	HCF001W	05/31/1215:15	05/31/12
EB-053112	E267-01R	ND	1	NA	0.200	0.100	06/01/1210:33	NA	IF01006	IF01001	HCF001W	05/31/1215:15	05/31/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCF001WB HCF001WL HCF001WC  
LAB FILE ID: IF01003 IF01007 IF01009  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/01/1210:02 06/01/1210:54 06/01/1211:14 DATE RECEIVED: NA  
PREP. BATCH: HCF001W HCF001W HCF001W  
CALIB. REF: IF01001 IF01001 IF01001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.94	97	2.00	1.80	90	7	80-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E267  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCF001WQ HCF001WX HCF001WY  
LAB FILE ID: IF01004 IF01008 IF01010  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/01/1210:12 06/01/1211:04 06/01/1211:25 DATE RECEIVED: NA  
PREP. BATCH: HCF001W HCF001W HCF001W  
CALIB. REF: IF01001 IF01001 IF01001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	2.10	105	2.00	1.96	98	7	80-120	20

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E267  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB-053112	E267-01	5.84	1	NA	NA	05/31/1218:52	NA	12PHE036W01	PHE036W	PHE036W	05/31/1215:15	05/31/12
EB-053112DUP	E267-01D	5.85	1	NA	NA	05/31/1218:54	NA	12PHE036W02	PHE036W	PHE036W	05/31/1215:15	05/31/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.:	12E267	DATE RECEIVED:	05/31/12
SAMPLE ID:	EB-053112DUP	DATE EXTRACTED:	NA
CONTROL NO.:	E267-01D	DATE ANALYZED:	05/31/1218:54

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	5.84	5.85	-0.01	0.10

METHOD 9045D  
PH

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E267

Matrix : SOIL  
Instrument ID : 53

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-619-SA5C-SB-0.0-0.5	E267-02	8.81	1	NA	NA	NA	06/01/1218:22	06/01/1217:37	12PHF001S01	PHF001S	PHF001S	05/30/1215:20	05/31/12
SL-618-SA5C-SB-0.0-1.0	E267-03	8.33	1	NA	NA	NA	06/01/1218:23	06/01/1217:37	12PHF001S02	PHF001S	PHF001S	05/30/1214:48	05/31/12
SL-608-SA5C-SB-2.0-3.0	E267-05	7.95	1	NA	NA	NA	06/01/1218:24	06/01/1217:37	12PHF001S03	PHF001S	PHF001S	05/31/1211:07	05/31/12
SL-611-SA5C-SB-0.0-0.5	E267-07	7.80	1	NA	NA	NA	06/01/1218:25	06/01/1217:37	12PHF001S04	PHF001S	PHF001S	05/31/1211:29	05/31/12
SL-611-SA5C-SB-5.0-6.0	E267-08	6.72	1	NA	NA	NA	06/01/1218:30	06/01/1217:37	12PHF001S05	PHF001S	PHF001S	05/31/1211:33	05/31/12
SL-613-SA5C-SB-4.0-5.0	E267-10	7.66	1	NA	NA	NA	06/01/1218:31	06/01/1217:37	12PHF001S06	PHF001S	PHF001S	05/31/1210:15	05/31/12
SL-613-SA5C-SB-7.5-8.5	E267-11	7.95	1	NA	NA	NA	06/01/1218:32	06/01/1217:37	12PHF001S07	PHF001S	PHF001S	05/31/1210:21	05/31/12
SL-614-SA5C-SB-0.0-0.5	E267-12	7.96	1	NA	NA	NA	06/01/1218:34	06/01/1217:37	12PHF001S08	PHF001S	PHF001S	05/31/1208:56	05/31/12
SL-614-SA5C-SB-3.0-4.0	E267-13	8.18	1	NA	NA	NA	06/01/1218:37	06/01/1217:37	12PHF001S09	PHF001S	PHF001S	05/31/1209:20	05/31/12
SL-610-SA5C-SB-0.0-0.5	E267-14	8.12	1	NA	NA	NA	06/01/1218:38	06/01/1217:37	12PHF001S10	PHF001S	PHF001S	05/31/1214:08	05/31/12
SL-609-SA5C-SB-3.0-4.0	E267-16	7.91	1	NA	NA	NA	06/01/1218:40	06/01/1217:37	12PHF001S11	PHF001S	PHF001S	05/31/1213:31	05/31/12
SL-612-SA5C-SB-4.0-5.0	E267-18	8.80	1	NA	NA	NA	06/01/1218:41	06/01/1217:37	12PHF001S12	PHF001S	PHF001S	05/31/1214:54	05/31/12
SL-612-SA5C-SB-4.0-5.0DUPE267-18D		8.80	1	NA	NA	NA	06/01/1218:45	06/01/1217:37	12PHF001S13	PHF001S	PHF001S	05/31/1214:54	05/31/12
SL-912-SA5C-SB-4.0-5.0	E267-20	8.92	1	NA	NA	NA	06/01/1218:47	06/01/1217:37	12PHF001S14	PHF001S	PHF001S	05/31/1214:58	05/31/12
SL-612-SA5C-SB-7.0-8.0	E267-22	8.63	1	NA	NA	NA	06/01/1218:49	06/01/1217:37	12PHF001S15	PHF001S	PHF001S	05/31/1215:08	05/31/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E267	DATE RECEIVED:	05/31/12
SAMPLE ID:	SL-612-SA5C-SB-4.0-5.0DUP	DATE EXTRACTED:	06/01/1217:37
CONTROL NO.:	E267-18D	DATE ANALYZED:	06/01/1218:45

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
----- pH	8.80	8.80	0	0.10

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/06/12 14:41
Sample ID    : EB-060112                        Date Analyzed: 06/06/12 14:41
Lab Samp ID  : F020-01                          Dilution Factor: 1
Lab File ID  : RFV058                           Matrix          : WATER
Ext Btch ID  : VO01F03                          % Moisture     : NA
Calib. Ref.  : RBV366                           Instrument ID   : T-001
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	1.8	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	9.92	10.00	99.2	80-120
4-BROMOFLUOROBENZENE	9.74	10.00	97.4	86-115
TOLUENE-D8	9.51	10.00	95.1	88-110
DIBROMOFLUOROMETHANE	9.32	10.00	93.2	86-118

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F020                           Date Extracted: 06/06/12 12:47
Sample ID    : MBLK1W                           Date Analyzed: 06/06/12 12:47
Lab Samp ID  : VO01F03B                         Dilution Factor: 1
Lab File ID  : RFV054                           Matrix          : WATER
Ext Btch ID  : VO01F03                          % Moisture     : NA
Calib. Ref.  : RBV366                           Instrument ID   : T-001
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	9.53	10.00	95.3	80-120
4-BROMOFLUOROBENZENE	9.31	10.00	93.1	86-115
TOLUENE-D8	9.48	10.00	94.8	88-110
DIBROMOFLUOROMETHANE	9.28	10.00	92.8	86-118

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F020  
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VO01F03B VO01F03L VO01F03C  
LAB FILE ID: RFV054 RFV052 RFV053  
DATE EXTRACTED: 06/06/1212:47 06/06/1211:49 06/06/1212:19 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1212:47 06/06/1211:49 06/06/1212:19 DATE RECEIVED: 06/06/12  
PREP. BATCH: VO01F03 VO01F03 VO01F03  
CALIB. REF: RBV366 RBV366 RBV366

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	10.0	9.61	96	10.0	9.48	95	1	70-130	30
1,1,1-Trichloroethane	ND	10.0	10.2	102	10.0	9.77	98	4	70-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.62	96	10.0	8.95	90	7	70-130	30
1,1,2-Trichloroethane	ND	10.0	9.52	95	10.0	9.15	91	4	70-130	30
1,1-Dichloroethane	ND	10.0	9.57	96	10.0	9.22	92	4	70-130	30
1,1-Dichloroethene	ND	10.0	8.90	89	10.0	8.49	85	5	60-130	30
1,1-Dichloropropene	ND	10.0	9.70	97	10.0	9.72	97	0	70-140	30
1,2,3-Trichlorobenzene	ND	10.0	10.2	102	10.0	9.70	97	5	60-130	30
1,2,3-Trichloropropane	ND	10.0	10.1	101	10.0	9.56	96	6	70-140	30
1,2,4-Trichlorobenzene	ND	10.0	10.4	104	10.0	10.1	101	3	60-140	30
1,2,4-Trimethylbenzene	ND	10.0	10.5	105	10.0	10.3	103	2	70-130	30
1,2-Dibromo-3-chloropropane	ND	10.0	8.14	81	10.0	7.81	78	4	60-130	30
1,2-Dichlorobenzene	ND	10.0	9.90	99	10.0	9.72	97	2	70-130	30
1,2-Dichloroethane	ND	10.0	10.3	103	10.0	9.83	98	4	70-130	30
1,2-Dichloropropane	ND	10.0	9.45	95	10.0	9.27	93	2	70-130	30
1,2-Dibromoethane (EDB)	ND	10.0	9.18	92	10.0	8.90	89	3	70-140	30
1,3,5-Trimethylbenzene	ND	10.0	10.4	104	10.0	10.3	103	1	70-130	30
1,3-Dichlorobenzene	ND	10.0	10.0	100	10.0	9.70	97	3	70-130	30
1,3-Dichloropropane	ND	10.0	8.97	90	10.0	8.64	86	4	70-130	30
1,4-Dichlorobenzene	ND	10.0	9.97	100	10.0	9.61	96	4	70-130	30
2,2-Dichloropropane	ND	10.0	9.80	98	10.0	9.56	96	2	50-140	30
2-Chlorotoluene	ND	10.0	9.94	99	10.0	9.68	97	3	70-130	30
4-Chlorotoluene	ND	10.0	10.3	103	10.0	9.96	100	3	70-130	30
Benzene	ND	10.0	9.32	93	10.0	9.05	90	3	70-130	30
Bromobenzene	ND	10.0	10.1	101	10.0	9.79	98	3	70-130	30
Bromochloromethane	ND	10.0	9.40	94	10.0	8.97	90	5	70-130	30
Bromodichloromethane	ND	10.0	9.08	91	10.0	8.93	89	2	70-130	30
Bromoform	ND	10.0	9.82	98	10.0	9.35	94	5	60-140	30
Bromomethane	ND	10.0	9.98	100	10.0	9.27	93	7	50-140	30
Carbon Tetrachloride	ND	10.0	10.2	102	10.0	10.1	101	0	70-130	30
Chlorobenzene	ND	10.0	9.82	98	10.0	9.69	97	1	70-120	30
Chloroethane	ND	10.0	10.3	103	10.0	9.51	95	8	70-140	30
Chloroform	ND	10.0	9.77	98	10.0	9.45	95	3	70-130	30
Chloromethane	ND	10.0	8.79	88	10.0	8.18	82	7	60-130	30
cis-1,2-Dichloroethene	ND	10.0	8.49	85	10.0	8.17	82	4	70-130	30
cis-1,3-Dichloropropene	ND	10.0	9.17	92	10.0	8.95	89	2	70-130	30
Dibromochloromethane	ND	10.0	9.44	94	10.0	9.17	92	3	70-130	30
Dibromomethane	ND	10.0	9.67	97	10.0	9.44	94	2	70-140	30
Dichlorodifluoromethane	ND	10.0	9.93	99	10.0	9.18	92	8	50-140	30
Ethylbenzene	ND	10.0	9.77	98	10.0	9.68	97	1	70-130	30
Hexachlorobutadiene	ND	10.0	11.5	115	10.0	11.4	114	1	60-140	30
Isopropyl Benzene	ND	10.0	11.5	115	10.0	11.4	114	1	70-150	30
m,p-Xylene	ND	20.0	19.1	95	20.0	18.9	94	1	70-130	30
Methyl tert-butyl Ether (MTBE)	ND	10.0	9.22	92	10.0	8.47	85	8	70-140	30
Methylene Chloride	ND	10.0	9.36	94	10.0	8.77	88	7	70-130	30
n-Butylbenzene	ND	10.0	10.9	109	10.0	10.9	109	0	60-130	30
n-Propylbenzene	ND	10.0	10.3	103	10.0	10.2	102	1	70-140	30
o-Xylene	ND	10.0	9.41	94	10.0	9.28	93	1	70-130	30

p-Isopropyltoluene	ND	10.0	11.2	112	10.0	11.1	111	1	70-140	30
Sec-Butylbenzene	ND	10.0	10.6	106	10.0	10.5	105	1	70-130	30
Styrene	ND	10.0	10.1	101	10.0	9.81	98	3	70-130	30
Tert-Butylbenzene	ND	10.0	10.1	101	10.0	10.1	101	0	70-130	30
Tetrachloroethene	ND	10.0	9.42	94	10.0	9.50	95	1	70-130	30
Toluene	ND	10.0	9.42	94	10.0	9.30	93	1	70-130	30
Trans-1,2-Dichloroethene	ND	10.0	8.81	88	10.0	8.53	85	3	70-130	30
Trans-1,3-Dichloropropene	ND	10.0	9.15	91	10.0	8.92	89	2	70-140	30
Trichloroethene	ND	10.0	9.51	95	10.0	9.46	95	1	70-130	30
Trichlorofluoromethane	ND	10.0	11.4	114	10.0	10.3	103	10	70-140	30
Vinyl Chloride	ND	10.0	9.64	96	10.0	8.97	90	7	60-150	30
Acetone	ND	50.0	42.3	85	50.0	39.2	78	8	50-150	30
2-Butanone (MEK)	ND	50.0	46.4	93	50.0	43.8	88	6	60-140	30
2-Hexanone	ND	50.0	46.5	93	50.0	44.3	89	5	70-140	30
4-Methyl-2-Pentanone (MIBK)	ND	50.0	46.9	94	50.0	45.5	91	3	60-140	30
Freon113	ND	10.0	10.4	104	10.0	10.0	100	4	70-140	30
2-Chloroethyl Vinyl Ether	ND	10.0	10.2	102	10.0	9.59	96	6	30-160	30
2-Chloro-1,1,1-trifluoroethane	ND	10.0	11.1	111	10.0	10.6	106	5	50-150	30
Chlorotrifluoroethylene	ND	10.0	8.25	82	10.0	8.01	80	3	50-150	30
1-Chlorohexane	ND	10.0	9.58	96	10.0	9.64	96	1	50-150	30
Carbon Disulfide	ND	10.0	8.36	84	10.0	8.64	86	3	40-150	30
Ethyl tertiary butyl Ether (ETBE)	ND	10.0	9.31	93	10.0	8.67	87	7	40-160	30
Iodomethane	ND	10.0	10.4	104	10.0	9.98	100	4	40-150	30
Tertiary Amyl Methyl Ether (TAME)	ND	10.0	9.12	91	10.0	8.58	86	6	50-150	30
Tertiary butyl Alcohol	ND	50.0	40.6	81	50.0	36.6	73	10	20-160	30
Vinyl Acetate	ND	10.0	10.2	102	10.0	8.49	85	18	10-160	30
Acrolein	ND	50.0	47.9	96	50.0	46.1	92	4	30-160	30
Acrylonitrile	ND	50.0	40.9	82	50.0	40.0	80	2	50-150	30
Diisopropyl Ether	ND	10.0	9.59	96	10.0	9.08	91	5	50-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	10.0	9.84	98	10.0	9.46	95	80-120
4-Bromofluorobenzene	10.0	8.99	90	10.0	8.99	90	86-115
Toluene-d8	10.0	9.10	91	10.0	9.45	95	88-110
Dibromofluoromethane	10.0	9.38	94	10.0	9.15	92	86-118

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/07/12 13:32
Sample ID    : EB-060112                        Date Analyzed: 06/07/12 13:32
Lab Samp ID  : F020-01                          Dilution Factor: 1
Lab File ID  : RPY062                           Matrix          : WATER
Ext Btch ID  : VOF5F06                          % Moisture     : NA
Calib. Ref.  : RKY092                           Instrument ID   : TOF5
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	3.95	5.000	79.0	50-150

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F020                           Date Extracted: 06/07/12 12:00
Sample ID    : MBLK1W                           Date Analyzed: 06/07/12 12:00
Lab Samp ID  : VOF5F06B                         Dilution Factor: 1
Lab File ID  : RPY059                           Matrix          : WATER
Ext Btch ID  : VOF5F06                          % Moisture      : NA
Calib. Ref.  : RKY092                           Instrument ID   : TOF5
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
1,4-DIOXANE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	4.83	5.000	96.6	50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F020  
METHOD: 5030B/8260B SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VOF5F06B VOF5F06L VOF5F06C  
LAB FILE ID: RFY059 RFY056 RFY057  
DATE EXTRACTED: 06/07/1212:00 06/07/1210:27 06/07/1210:58 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1212:00 06/07/1210:27 06/07/1210:58 DATE RECEIVED: 06/07/12  
PREP. BATCH: VOF5F06 VOF5F06 VOF5F06  
CALIB. REF: RKY092 RKY092 RKY092

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,4-Dioxane	ND	50.0	46.4	93	50.0	47.5	95	3	50-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	5.00	4.39	88	5.00	4.44	89	50-150

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/15/12 15:00
Sample ID:   SL-563-SA5C-SB-0.0-0.5            Date Analyzed: 06/18/12 17:43
Lab Samp ID: F020-09R                           Dilution Factor: 1
Lab File ID: RFL253                              Matrix          : SOIL
Ext Btch ID: SVF033S                            % Moisture     : 17.5
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	3.0
ACENAPHTHYLENE	ND	12	3.0
ANTHRACENE	ND	12	3.0
BENZO (A) ANTHRACENE	ND	12	3.0
BENZO (A) PYRENE	ND	12	3.0
BENZO (B) FLUORANTHENE	ND	12	3.0
BENZO (K) FLUORANTHENE	ND	12	3.0
BENZO (G, H, I) PERYLENE	ND	12	3.0
CHRYSENE	ND	12	3.0
DIBENZO (A, H) ANTHRACENE	ND	12	3.0
FLUORANTHENE	ND	12	3.0
FLUORENE	ND	12	3.0
INDENO (1, 2, 3-CD) PYRENE	ND	12	3.0
NAPHTHALENE	ND	12	3.0
PHENANTHRENE	ND	12	3.0
2-METHYLNAPHTHALENE	ND	12	3.0
1-METHYLNAPHTHALENE	ND	12	3.0
N-NITROSODIMETHYLAMINE	ND	12	3.0
PYRENE	ND	12	3.0
AZOBENZENE	ND	6.1	3.0
BENZO (E) PYRENE	ND	6.1	3.0
BIPHENYL	ND	6.1	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	226	404.0	56.1	40-130
2-FLUOROBIPHENYL	182	404.0	45.0	45-130
TERPHENYL-D14	311	404.0	77.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/15/12 15:00
Sample ID    : SL-563-SA5C-SB-4.0-5.0          Date Analyzed: 06/18/12 18:09
Lab Samp ID  : F020-10R                         Dilution Factor: 1
Lab File ID  : RFL254                           Matrix          : SOIL
Ext Btch ID  : SVF033S                          % Moisture     : 13.3
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	245	384.4	63.9	40-130
2-FLUOROBIPHENYL	219	384.4	57.0	45-130
TERPHENYL-D14	366	384.4	95.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/07/12 16:04
Sample ID:   SL-563-SA5C-SB-9.0-10.0           Date Analyzed: 06/07/12 21:21
Lab Samp ID: F020-12                            Dilution Factor: 1
Lab File ID: RFJ141                             Matrix          : SOIL
Ext Btch ID: SVF019S                            % Moisture      : 11.9
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	205	378.3	54.2	40-130
2-FLUOROBIPHENYL	180	378.3	47.6	45-130
TERPHENYL-D14	276	378.3	73.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/07/12 16:04
Sample ID:   SL-536-SA5C-SB-4.0-5.0            Date Analyzed: 06/07/12 21:40
Lab Samp ID: F020-15                             Dilution Factor: 1
Lab File ID: RFJ142                              Matrix          : SOIL
Ext Btch ID: SVF019S                             % Moisture      : 7.4
Calib. Ref.: RAJ290                              Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	193	359.9	53.6	40-130
2-FLUOROBIPHENYL	188	359.9	52.3	45-130
TERPHENYL-D14	293	359.9	81.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/15/12 15:00
Sample ID    : SL-536-SA5C-SB-9.0-10.0         Date Analyzed: 06/18/12 18:35
Lab Samp ID  : F020-17R                         Dilution Factor: 1
Lab File ID  : RFL255                           Matrix          : SOIL
Ext Btch ID  : SVF033S                          % Moisture     : 9.5
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	3.4J	11	2.8
BENZO (A) PYRENE	2.8J	11	2.8
BENZO (B) FLUORANTHENE	3.0J	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	3.0J	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	6.0J	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	3.8J	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	6.2J	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	236	368.3	64.1	40-130
2-FLUOROBIPHENYL	222	368.3	60.3	45-130
TERPHENYL-D14	363	368.3	98.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/07/12 16:04
Sample ID:   SL-562-SA5C-SB-0.0-0.5            Date Analyzed: 06/07/12 22:18
Lab Samp ID: F020-19                           Dilution Factor: 1
Lab File ID: RFJ144                             Matrix          : SOIL
Ext Btch ID: SVF019S                           % Moisture      : 15.3
Calib. Ref.: RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	3.0
ACENAPHTHYLENE	ND	12	3.0
ANTHRACENE	ND	12	3.0
BENZO (A) ANTHRACENE	ND	12	3.0
BENZO (A) PYRENE	ND	12	3.0
BENZO (B) FLUORANTHENE	ND	12	3.0
BENZO (K) FLUORANTHENE	ND	12	3.0
BENZO (G, H, I) PERYLENE	ND	12	3.0
CHRYSENE	ND	12	3.0
DIBENZO (A, H) ANTHRACENE	ND	12	3.0
FLUORANTHENE	ND	12	3.0
FLUORENE	ND	12	3.0
INDENO (1, 2, 3-CD) PYRENE	ND	12	3.0
NAPHTHALENE	ND	12	3.0
PHENANTHRENE	ND	12	3.0
2-METHYLNAPHTHALENE	ND	12	3.0
1-METHYLNAPHTHALENE	ND	12	3.0
N-NITROSODIMETHYLAMINE	ND	12	3.0
PYRENE	ND	12	3.0
AZOBENZENE	ND	5.9	3.0
BENZO (E) PYRENE	ND	5.9	3.0
BIPHENYL	ND	5.9	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	233	393.5	59.3	40-130
2-FLUOROBIPHENYL	186	393.5	47.3	45-130
TERPHENYL-D14	309	393.5	78.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/15/12 15:00
Sample ID    : SL-562-SA5C-SB-4.0-5.0          Date Analyzed: 06/18/12 19:01
Lab Samp ID  : F020-20R                         Dilution Factor: 1
Lab File ID  : RFL256                           Matrix          : SOIL
Ext Btch ID  : SVF033S                          % Moisture     : 14.7
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.9	2.9
BENZO (E) PYRENE	ND	5.9	2.9
BIPHENYL	ND	5.9	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	277	390.7	71.0	40-130
2-FLUOROBIPHENYL	250	390.7	63.9	45-130
TERPHENYL-D14	385	390.7	98.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/15/12 15:00
Sample ID    : SL-562-SA5C-SB-9.0-10.0         Date Analyzed: 06/18/12 19:27
Lab Samp ID  : F020-22R                         Dilution Factor: 1
Lab File ID  : RFL257                           Matrix          : SOIL
Ext Btch ID  : SVF033S                          % Moisture     : 13.9
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	220	387.1	56.8	40-130
2-FLUOROBIPHENYL	185	387.1	47.9	45-130
TERPHENYL-D14	372	387.1	96.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F020                           Date Extracted: 06/07/12 16:04
Sample ID    : MBLK1S                           Date Analyzed: 06/07/12 19:09
Lab Samp ID  : SVF019SB                        Dilution Factor: 1
Lab File ID  : RFJ134                          Matrix          : SOIL
Ext Btch ID  : SVF019S                         % Moisture     : NA
Calib. Ref.  : RAJ290                          Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	238	333.3	71.5	40-130
2-FLUOROBIPHENYL	211	333.3	63.4	45-130
TERPHENYL-D14	249	333.3	74.7	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F020                           Date Extracted: 06/15/12 15:00
Sample ID    : MBLK2S                            Date Analyzed: 06/18/12 15:34
Lab Samp ID  : SVF033SB                         Dilution Factor: 1
Lab File ID  : RFL248                           Matrix          : SOIL
Ext Btch ID  : SVF033S                          % Moisture      : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	250	333.3	75.1	40-130
2-FLUOROBIPHENYL	241	333.3	72.3	45-130
TERPHENYL-D14	323	333.3	96.8	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F020  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF019SB SVF019SL SVF019SC  
LAB FILE ID: RFJ134 RFJ135 RFJ136  
DATE EXTRACTED: 06/07/1216:04 06/07/1216:04 06/07/1216:04 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1219:09 06/07/1219:28 06/07/1219:47 DATE RECEIVED: 06/07/12  
PREP. BATCH: SVF019S SVF019S SVF019S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	292	88	333	255	77	13	10-130	50
Acenaphthylene	ND	333	325	97	333	287	86	12	20-130	50
Anthracene	ND	333	277	83	333	243	73	13	20-130	50
Benzo (a) anthracene	ND	333	288	86	333	240	72	18	30-130	50
Benzo (a) pyrene	ND	333	319	96	333	298	89	7	30-130	50
Benzo (b) fluoranthene	ND	333	330	99	333	301	90	9	40-130	50
Benzo (k) fluoranthene	ND	333	329	99	333	310	93	6	30-140	50
Benzo (g, h, i) perylene	ND	333	337	101	333	321	96	5	30-140	50
Chrysene	ND	333	293	88	333	245	74	18	30-140	50
Dibenzo (a, h) anthracene	ND	333	334	100	333	316	95	6	40-140	50
Fluoranthene	ND	333	310	93	333	270	81	14	30-130	50
Fluorene	ND	333	296	89	333	258	77	14	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	332	100	333	314	94	6	20-160	50
Naphthalene	ND	333	281	84	333	241	72	15	10-130	50
Phenanthrene	ND	333	284	85	333	248	74	14	20-130	50
2-Methylnaphthalene	ND	333	296	89	333	255	76	15	30-150	50
1-Methylnaphthalene	ND	333	304	91	333	263	79	14	30-150	50
N-Nitrosodimethylamine	ND	333	265	80	333	224	67	17	30-150	50
Pyrene	ND	333	299	90	333	256	77	15	20-150	50
Azobenzene	ND	333	286	86	333	240	72	17	30-150	50
Benzo (e) pyrene	ND	333	292	88	333	282	85	4	30-150	50
Biphenyl	ND	333	238	71	333	215	65	10	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	264	79	333	243	73	40-130
2-Fluorobiphenyl	333	236	71	333	213	64	45-130
Terphenyl-d14	333	278	83	333	248	74	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F020  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2S  
LAB SAMP ID: SVF033SB SVF033SL SVF033SC  
LAB FILE ID: RFL248 RFL249 RFL250  
DATE EXTRACTED: 06/15/1215:00 06/15/1215:00 06/15/1215:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/18/1215:34 06/18/1216:00 06/18/1216:26 DATE RECEIVED: 06/15/12  
PREP. BATCH: SVF033S SVF033S SVF033S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	264	79	333	290	87	10	10-130	50
Acenaphthylene	ND	333	266	80	333	308	92	15	20-130	50
Anthracene	ND	333	279	84	333	310	93	11	20-130	50
Benzo (a) anthracene	ND	333	290	87	333	337	101	15	30-130	50
Benzo (a) pyrene	ND	333	321	96	333	355	107	10	30-130	50
Benzo (b) fluoranthene	ND	333	330	99	333	384	115	15	40-130	50
Benzo (k) fluoranthene	ND	333	333	100	333	350	105	5	30-140	50
Benzo (g, h, i) perylene	ND	333	300	90	333	328	98	9	30-140	50
Chrysene	ND	333	298	89	333	344	103	14	30-140	50
Dibenzo (a, h) anthracene	ND	333	317	95	333	345	103	8	40-140	50
Fluoranthene	ND	333	312	94	333	350	105	11	30-130	50
Fluorene	ND	333	265	80	333	292	88	10	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	321	96	333	340	102	6	20-160	50
Naphthalene	ND	333	258	77	333	291	87	12	10-130	50
Phenanthrene	ND	333	294	88	333	323	97	10	20-130	50
2-Methylnaphthalene	ND	333	258	78	333	289	87	11	30-150	50
1-Methylnaphthalene	ND	333	273	82	333	305	92	11	30-150	50
N-Nitrosodimethylamine	ND	333	348	104	333	397	119	13	30-150	50
Pyrene	ND	333	314	94	333	348	105	10	20-150	50
Azobenzene	ND	333	256	77	333	289	87	12	30-150	50
Benzo (e) pyrene	ND	333	346	104	333	356	107	3	30-150	50
Biphenyl	ND	333	260	78	333	268	80	3	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	262	78	333	256	77	40-130
2-Fluorobiphenyl	333	255	76	333	244	73	45-130
Terphenyl-d14	333	338	102	333	326	98	45-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/01/12
Project     : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.   : 12F020                           Date Extracted: 06/07/12 01:04
Sample ID:  SL-563-SA5C-SB-5.0                Date Analyzed: 06/07/12 01:04
Lab Samp ID: F020-11                          Dilution Factor: 0.82
Lab File ID: EF06015A                         Matrix          : SOIL
Ext Btch ID: GMF002S                           % Moisture     : 14.8
Calib. Ref.: EF06014A                         Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.96	0.48
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.48	1.925	77.0 70-140

RL : Reporting Limit

Methanol Extraction Date : 06/04/12 14:56

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/07/12 01:48
Sample ID:   SL-563-SA5C-SB-10.0               Date Analyzed: 06/07/12 01:48
Lab Samp ID: F020-13                           Dilution Factor: 0.78
Lab File ID: EF06016A                          Matrix          : SOIL
Ext Btch ID: GMF002S                            % Moisture     : 11.4
Calib. Ref.: EF06014A                          Instrument ID  : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.88	0.44
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.40	1.761	79.7 70-140

RL : Reporting Limit

Methanol Extraction Date : 06/04/12 14:56

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                       Date Received: 06/01/12
Batch No.    : 12F020                             Date Extracted: 06/07/12 02:31
Sample ID   : SL-536-SA5C-SB-5.0                 Date Analyzed: 06/07/12 02:31
Lab Samp ID : F020-16                             Dilution Factor: 0.94
Lab File ID : EF06017A                            Matrix          : SOIL
Ext Btch ID : GMF002S                             % Moisture     : 8.1
Calib. Ref. : EF06014A                            Instrument ID  : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.69	2.046	82.6 70-140

RL : Reporting Limit

Methanol Extraction Date : 06/04/12 14:56

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/07/12 03:14
Sample ID:   SL-536-SA5C-SB-10.0               Date Analyzed: 06/07/12 03:14
Lab Samp ID: F020-18                           Dilution Factor: 0.81
Lab File ID: EF06018A                          Matrix          : SOIL
Ext Btch ID: GMF002S                            % Moisture     : 10.5
Calib. Ref.: EF06014A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.91	0.45
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.43	1.810	79.1 70-140

RL : Reporting Limit

Methanol Extraction Date : 06/04/12 14:56

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/07/12 03:57
Sample ID:   SL-562-SA5C-SB-5.0                Date Analyzed: 06/07/12 03:57
Lab Samp ID: F020-21                           Dilution Factor: 0.85
Lab File ID: EF06019A                          Matrix          : SOIL
Ext Btch ID: GMF002S                            % Moisture     : 14.5
Calib. Ref.: EF06014A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.99	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.62	1.988	81.5	70-140

RL : Reporting Limit

Methanol Extraction Date : 06/04/12 14:56

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/07/12 04:40
Sample ID:   SL-562-SA5C-SB-10.0               Date Analyzed: 06/07/12 04:40
Lab Samp ID: F020-23                           Dilution Factor: 0.8
Lab File ID: EF06020A                          Matrix          : SOIL
Ext Btch ID: GMF002S                            % Moisture     : 12.4
Calib. Ref.: EF06014A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.91	0.46
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.38	1.826	75.8 70-140

RL : Reporting Limit

Methanol Extraction Date : 06/04/12 14:56

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F020                           Date Extracted: 06/06/12 17:53
Sample ID    : MBLK1S                            Date Analyzed: 06/06/12 17:53
Lab Samp ID  : GMF002SB                          Dilution Factor: 1
Lab File ID  : EF06005A                          Matrix          : SOIL
Ext Btch ID  : GMF002S                            % Moisture     : NA
Calib. Ref.  : EF06002A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.74	2.000	86.9 60-130

RL : Reporting Limit

Methanol Extraction Date : 06/04/12 14:56

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F020  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF002SB GMF002SL GMF002SC  
LAB FILE ID: EF06005A EF06006A EF06007A  
DATE EXTRACTED: 06/06/1217:53 06/06/1218:36 06/06/1219:20 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1217:53 06/06/1218:36 06/06/1219:20 DATE RECEIVED: 06/06/12  
PREP. BATCH: GMF002S GMF002S GMF002S  
CALIB. REF: EF06002A EF06002A EF06002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	20.4	81	25.0	21.0	84	3	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.16	108	2.00	2.15	107	60-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/01/12
Project    : SSFL PHASE 3                       Date Received: 06/01/12
Batch No.  : 12F020                             Date Extracted: 06/05/12 09:16
Sample ID  : TB-060112                          Date Analyzed: 06/05/12 09:16
Lab Samp ID: F020-14                             Dilution Factor: 1
Lab File ID: EF04038A                           Matrix          : WATER
Ext Btch ID: VG39F02                             % Moisture     : NA
Calib. Ref.: EF04028A                           Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	29J	50	10
SURROGATE PARAMETERS			
4-BROMOFLUOROBENZENE	34.9	40.00	60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.   : 12F020                           Date Extracted: 06/05/12 00:38
Sample ID   : MBLK1W                           Date Analyzed: 06/05/12 00:38
Lab Samp ID: VG39F02B                          Dilution Factor: 1
Lab File ID: EF04026A                          Matrix          : WATER
Ext Btch ID: VG39F02                           % Moisture     : NA
Calib. Ref.: EF04017A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	35.3	40.00	88.3 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F020  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F02B VG39F02L VG39F02C  
LAB FILE ID: EF04026A EF04024A EF04025A  
DATE EXTRACTED: 06/05/1200:38 06/04/1223:12 06/04/1223:55 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1200:38 06/04/1223:12 06/04/1223:55 DATE RECEIVED: 06/04/12  
PREP. BATCH: VG39F02 VG39F02 VG39F02  
CALIB. REF: EF04017A EF04017A EF04017A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	438	88	500	445	89	2	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	43.3	108	40.0	40.9	102	60-130

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/04/12 08:50
Sample ID    : SL-536-SA5C-SB-4.0-5.0          Date Analyzed: 06/04/12 10:42
Lab Samp ID  : F020-15                          Dilution Factor: 1
Lab File ID  : BF04006A                        Matrix          : SOIL
Ext Btch ID  : MEF002S                          % Moisture     : 7.4
Calib. Ref. : BF04002A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	540	270
ISOPROPANOL	ND	540	270
METHANOL	ND	540	270

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/04/12 08:50
Sample ID:   SL-536-SA5C-SB-9.0-10.0           Date Analyzed: 06/04/12 11:00
Lab Samp ID: F020-17                            Dilution Factor: 1
Lab File ID: BF04007A                          Matrix          : SOIL
Ext Btch ID: MEF002S                            % Moisture     : 9.5
Calib. Ref.: BF04002A                          Instrument ID  : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	550	280
ISOPROPANOL	ND	550	280
METHANOL	ND	550	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/04/12
Batch No.  : 12F020                             Date Extracted: 06/04/12 08:50
Sample ID  : MBLK1S                             Date Analyzed: 06/04/12 09:32
Lab Samp ID: MEF002SB                           Dilution Factor: 1
Lab File ID: BF04003A                           Matrix          : SOIL
Ext Btch ID: MEF002S                             % Moisture     : NA
Calib. Ref.: BF04002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F020  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEF002SB MEF002SL MEF002SC  
LAB FILE ID: BF04003A BF04004A BF04005A  
DATE EXTRACTED: 06/04/1208:50 06/04/1208:50 06/04/1208:50 DATE COLLECTED: NA  
DATE ANALYZED: 06/04/1209:32 06/04/1209:50 06/04/1210:14 DATE RECEIVED: 06/04/12  
PREP. BATCH: MEF002S MEF002S MEF002S  
CALIB. REF: BF04002A BF04002A BF04002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	11500	115	10000	10400	104	11	50-150	50
Isopropanol	ND	10000	10400	104	10000	9270	93	12	50-150	50
Methanol	ND	10000	11400	114	10000	8550	86	28	50-150	50

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/04/12 08:50
Sample ID    : SL-536-SA5C-SB-4.0-5.0          Date Analyzed: 06/05/12 14:40
Lab Samp ID  : F020-15                          Dilution Factor: 1
Lab File ID  : TF05012A                        Matrix          : SOIL
Ext Btch ID  : PEF002S                          % Moisture     : 7.4
Calib. Ref.  : TF05007A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	8.1
ETHYLENE GLYCOL	ND	11	5.4
PROPYLENE GLYCOL	ND	11	5.4

METHOD 8015M  
GLYCOLS

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/04/12 08:50
Sample ID    : SL-536-SA5C-SB-9.0-10.0         Date Analyzed: 06/05/12 15:09
Lab Samp ID  : F020-17                           Dilution Factor: 1
Lab File ID  : TF05013A                         Matrix          : SOIL
Ext Btch ID  : PEF002S                          % Moisture     : 9.5
Calib. Ref.  : TF05007A                         Instrument ID   : GCT050
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.3
ETHYLENE GLYCOL	ND	11	5.5
PROPYLENE GLYCOL	ND	11	5.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.   : 12F020                           Date Extracted: 06/04/12 08:50
Sample ID   : MBLK1S                           Date Analyzed: 06/05/12 14:26
Lab Samp ID: PEF002SQ                          Dilution Factor: 1
Lab File ID: TF05011A                         Matrix          : SOIL
Ext Btch ID: PEF002S                          % Moisture     : NA
Calib. Ref.: TF05007A                         Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F020  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEF002SQ PEF002SL PEF002SC  
LAB FILE ID: TF05011A TF05008A TF05009A  
DATE EXTRACTED: 06/04/1208:50 06/04/1208:50 06/04/1208:50 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1214:26 06/05/1212:24 06/05/1213:20 DATE RECEIVED: 06/04/12  
PREP. BATCH: PEF002S PEF002S PEF002S  
CALIB. REF: TF05007A TF05007A TF05007A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	41.6	83	50.0	55.8	112	29	50-150	50
Ethylene Glycol	ND	50.0	49.4	99	50.0	53.6	107	8	50-150	50
Propylene Glycol	ND	25.0	26.8	107	25.0	29.5	118	9	50-150	50

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/08/12 16:45
Sample ID    : SL-563-SA5C-SB-0.0-0.5          Date Analyzed: 06/12/12 00:24
Lab Samp ID  : F020-09                           Dilution Factor: 1
Lab File ID  : LF11055A                         Matrix          : SOIL
Ext Btch ID  : DSF012S                           % Moisture     : 17.5
Calib. Ref. : LF11051A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	6.1	3.0
EFH(C12-C14)	ND	6.1	3.0
EFH(C15-C20)	ND	6.1	3.0
EFH(C21-C30)	ND	6.1	3.0
EFH(C30-C40)	ND	12	6.1
TOTAL EFH(C8-C40)	ND	6.1	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	70.9	121.2	58.5	50-150
HEXACOSANE	20.9	30.30	69.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/08/12 16:45
Sample ID    : SL-563-SA5C-SB-4.0-5.0          Date Analyzed: 06/11/12 21:35
Lab Samp ID  : F020-10                          Dilution Factor: 1
Lab File ID  : LF11045A                         Matrix          : SOIL
Ext Btch ID  : DSF012S                          % Moisture     : 13.3
Calib. Ref.  : LF11039A                         Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.9	115.3	60.6	50-150
HEXACOSANE	20.2	28.84	70.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/08/12 16:45
Sample ID    : SL-563-SA5C-SB-9.0-10.0         Date Analyzed: 06/11/12 21:52
Lab Samp ID  : F020-12                          Dilution Factor: 1
Lab File ID  : LF11046A                        Matrix          : SOIL
Ext Btch ID  : DSF012S                         % Moisture     : 11.9
Calib. Ref. : LF11039A                         Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.5	113.5	64.8	50-150
HEXACOSANE	20.6	28.38	72.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/08/12 16:45
Sample ID    : SL-536-SA5C-SB-4.0-5.0          Date Analyzed: 06/12/12 00:41
Lab Samp ID  : F020-15                          Dilution Factor: 1
Lab File ID  : LF11056A                        Matrix          : SOIL
Ext Btch ID  : DSF012S                         % Moisture     : 7.4
Calib. Ref.  : LF11051A                       Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.0	108.0	63.9	50-150
HEXACOSANE	19.5	27.00	72.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                       Date Received: 06/01/12
Batch No.    : 12F020                             Date Extracted: 06/08/12 16:45
Sample ID    : SL-536-SA5C-SB-9.0-10.0           Date Analyzed: 06/11/12 22:09
Lab Samp ID  : F020-17                            Dilution Factor: 1
Lab File ID  : LF11047A                           Matrix          : SOIL
Ext Btch ID  : DSF012S                             % Moisture      : 9.5
Calib. Ref.  : LF11039A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.6	110.5	65.7	50-150
HEXACOSANE	21.2	27.62	76.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/08/12 16:45
Sample ID:   SL-562-SA5C-SB-0.0-0.5            Date Analyzed: 06/11/12 22:25
Lab Samp ID: F020-19                            Dilution Factor: 1
Lab File ID: LF11048A                           Matrix          : SOIL
Ext Btch ID: DSF012S                             % Moisture     : 15.3
Calib. Ref.: LF11039A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.9	3.0
EFH(C12-C14)	ND	5.9	3.0
EFH(C15-C20)	ND	5.9	3.0
EFH(C21-C30)	ND	5.9	3.0
EFH(C30-C40)	ND	12	5.9
TOTAL EFH(C8-C40)	ND	5.9	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.0	118.1	61.8	50-150
HEXACOSANE	21.9	29.52	74.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                          Date Extracted: 06/08/12 16:45
Sample ID:   SL-562-SA5C-SB-4.0-5.0           Date Analyzed: 06/11/12 22:42
Lab Samp ID: F020-20                          Dilution Factor: 1
Lab File ID: LF11049A                        Matrix          : SOIL
Ext Btch ID: DSF012S                        % Moisture     : 14.7
Calib. Ref.: LF11039A                       Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.9	2.9
EFH(C12-C14)	ND	5.9	2.9
EFH(C15-C20)	ND	5.9	2.9
EFH(C21-C30)	ND	5.9	2.9
EFH(C30-C40)	ND	12	5.9
TOTAL EFH(C8-C40)	ND	5.9	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.8	117.2	62.1	50-150
HEXACOSANE	21.8	29.31	74.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/08/12 16:45
Sample ID    : SL-562-SA5C-SB-9.0-10.0         Date Analyzed: 06/11/12 22:59
Lab Samp ID  : F020-22                           Dilution Factor: 1
Lab File ID  : LF11050A                         Matrix          : SOIL
Ext Btch ID  : DSF012S                          % Moisture     : 13.9
Calib. Ref.  : LF11039A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	67.2	116.1	57.9	50-150
HEXACOSANE	20.1	29.04	69.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/08/12
Batch No.    : 12F020                           Date Extracted: 06/08/12 16:45
Sample ID    : MBLK1S                            Date Analyzed: 06/11/12 20:27
Lab Samp ID  : DSF012SB                         Dilution Factor: 1
Lab File ID  : LF11041A                        Matrix          : SOIL
Ext Btch ID  : DSF012S                          % Moisture     : NA
Calib. Ref.  : LF11039A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.7	100.0	69.7	50-150
HEXACOSANE	18.4	25.00	73.5	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F020  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF012SB DSF012SL DSF012SC  
LAB FILE ID: LF11041A LF11042A LF11043A  
DATE EXTRACTED: 06/08/1216:45 06/08/1216:45 06/08/1216:45 DATE COLLECTED: NA  
DATE ANALYZED: 06/11/1220:27 06/11/1220:44 06/11/1221:01 DATE RECEIVED: 06/08/12  
PREP. BATCH: DSF012S DSF012S DSF012S  
CALIB. REF: LF11039A LF11039A LF11039A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	424	85	500	420	84	1	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	76.1	76	100	71.9	72	50-150
Hexacosane	25.0	19.8	79	25.0	18.3	73	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/12/12 15:21
Sample ID    : SL-558A-SA5C-SB-0.0-0.5         Date Analyzed: 06/13/12 19:34
Lab Samp ID  : F020-02                           Dilution Factor: 1
Lab File ID  : SF13013A                          Matrix          : SOIL
Ext Btch ID  : CPF013S                            % Moisture     : 10.7
Calib. Ref.  : SF13003A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.95   (12.74)	14.93	80.1   (85.4)	45-120
TETRACHLORO-M-XYLENE	12.05   (13.04)	14.93	80.7   (87.4)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/01/12
Project    : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.  : 12F020                           Date Extracted: 06/12/12 15:21
Sample ID  : SL-558A-SA5C-SB-2.0-3.0         Date Analyzed: 06/13/12 20:09
Lab Samp ID: F020-03                          Dilution Factor: 1
Lab File ID: SF13014A                         Matrix          : SOIL
Ext Btch ID: CPF013S                          % Moisture     : 12.5
Calib. Ref.: SF13003A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.67)   12.15	15.23	(83.2)   79.8	45-120
TETRACHLORO-M-XYLENE	12.44   (13.18)	15.23	81.6   (86.5)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/12/12 15:21
Sample ID:   SL-558B-SA5C-SB-0.0-0.5           Date Analyzed: 06/13/12 20:44
Lab Samp ID: F020-04                             Dilution Factor: 1
Lab File ID: SF13015A                           Matrix          : SOIL
Ext Btch ID: CPF013S                             % Moisture     : 15.6
Calib. Ref.: SF13003A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	47	24   24	
AROCLOR 5442	(ND)   ND	47	24   24	
AROCLOR 5460	(ND)   ND	47	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.38)   12.79	15.79	(84.7)   81.0	45-120
TETRACHLORO-M-XYLENE	12.80   (13.63)	15.79	81.1   (86.3)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/12/12 15:21
Sample ID    : SL-558B-SA5C-SB-2.0-3.0         Date Analyzed: 06/13/12 21:19
Lab Samp ID  : F020-05                           Dilution Factor: 1
Lab File ID  : SF13016A                         Matrix          : SOIL
Ext Btch ID  : CPF013S                          % Moisture     : 16.1
Calib. Ref.  : SF13003A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	48	24   24	
AROCLOR 5442	(ND)   ND	48	24   24	
AROCLOR 5460	(ND)   ND	48	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.86)   13.29	15.89	(87.2)   83.7	45-120
TETRACHLORO-M-XYLENE	13.18   (14.19)	15.89	82.9   (89.3)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/01/12
Project    : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.  : 12F020                           Date Extracted: 06/12/12 15:21
Sample ID: SL-558C-SA5C-SB-0.0-0.5           Date Analyzed: 06/13/12 21:55
Lab Samp ID: F020-06                          Dilution Factor: 1
Lab File ID: SF13017A                        Matrix          : SOIL
Ext Btch ID: CPF013S                          % Moisture     : 16.7
Calib. Ref.: SF13003A                        Instrument ID  : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	48	24   24	
AROCLOR 5442	(ND)   ND	48	24   24	
AROCLOR 5460	(ND)   ND	48	24   24	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.07)   13.55	16.00	(87.9)   84.7	45-120
TETRACHLORO-M-XYLENE	12.93   (12.96)	16.00	80.8   (81.0)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/12/12 15:21
Sample ID    : SL-558C-SA5C-SB-2.0-3.0         Date Analyzed: 06/13/12 22:30
Lab Samp ID  : F020-07                          Dilution Factor: 1
Lab File ID  : SF13018A                        Matrix          : SOIL
Ext Btch ID  : CPF013S                         % Moisture      : 16.8
Calib. Ref.  : SF13003A                       Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	48	24   24	
AROCLOR 5442	(ND)   ND	48	24   24	
AROCLOR 5460	(ND)   ND	48	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.15)   13.59	16.02	(88.3)   84.8	45-120
TETRACHLORO-M-XYLENE	13.50   (14.48)	16.02	84.2   (90.4)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/01/12
Project     : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.   : 12F020                           Date Extracted: 06/12/12 15:21
Sample ID:  SL-558D-SA5C-SB-0.0-0.5           Date Analyzed: 06/13/12 23:05
Lab Samp ID: F020-08                           Dilution Factor: 1
Lab File ID: SF13019A                         Matrix          : SOIL
Ext Btch ID: CPF013S                           % Moisture     : 14.5
Calib. Ref.: SF13003A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.83)   13.15	15.59	(88.7)   84.4	45-120
TETRACHLORO-M-XYLENE	13.85   (14.58)	15.59	88.8   (93.5)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/01/12
Project    : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.  : 12F020                           Date Extracted: 06/12/12 15:21
Sample ID  : SL-536-SA5C-SB-4.0-5.0          Date Analyzed: 06/13/12 23:40
Lab Samp ID: F020-15                          Dilution Factor: 1
Lab File ID: SF13020A                        Matrix          : SOIL
Ext Btch ID: CPF013S                         % Moisture     : 7.4
Calib. Ref.: SF13003A                       Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.26)   12.98	14.40	(92.1)   90.2	45-120
TETRACHLORO-M-XYLENE	11.70   (11.96)	14.40	81.3   (83.1)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/01/12
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12F020                           Date Extracted: 06/12/12 15:21
Sample ID    : SL-536-SA5C-SB-9.0-10.0         Date Analyzed: 06/14/12 02:36
Lab Samp ID  : F020-17                          Dilution Factor: 1
Lab File ID  : SF13025A                        Matrix          : SOIL
Ext Btch ID  : CPF013S                          % Moisture     : 9.5
Calib. Ref.  : SF13022A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.54   (13.57)	14.73	91.9   (92.1)	45-120
TETRACHLORO-M-XYLENE	12.01   (12.83)	14.73	81.6   (87.1)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/12/12
Batch No.    : 12F020                             Date Extracted: 06/12/12 15:21
Sample ID    : MBLK1S                             Date Analyzed: 06/13/12 17:48
Lab Samp ID  : 60F013SB                           Dilution Factor: 1
Lab File ID  : SF13010A                           Matrix          : SOIL
Ext Btch ID  : CPF013S                             % Moisture      : NA
Calib. Ref.  : SF13003A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.41   (13.51)	13.33	93.1   (101)	45-120
TETRACHLORO-M-XYLENE	9.619   (13.24)	13.33	72.2   (99.3)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F020  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F013SB 60F013SL 60F013SC  
LAB FILE ID: SF13010A SF13011A SF13012A  
DATE EXTRACTED: 06/12/1215:21 06/12/1215:21 06/12/1215:21 DATE COLLECTED: NA  
DATE ANALYZED: 06/13/1217:48 06/13/1218:23 06/13/1218:58 DATE RECEIVED: 06/12/12  
PREP. BATCH: CPF013S CPF013S CPF013S  
CALIB. REF: SF13003A SF13003A SF13003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	144   (184)	86   (110)	167	145   (169)	87   (101)	1   (8)	50-130	50
Aroclor 1260	(ND)   ND	167	171   (179)	103   (107)	167	162   (175)	97   (105)	5   (2)	60-150	50
Aroclor 5460	(ND)   ND	83.3	88.4   (89.6)	106   (108)	83.3	86.7   (87.7)	104   (105)	2   (2)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(12.85)   12.02	(96.4)   90.2	13.33	(12.82)   12.00	(96.2)   90.0	45-120
Tetrachloro-m-xylene	13.33	12.21   (12.85)	91.6   (96.4)	13.33	12.53   (13.03)	94.0   (97.8)	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/01/12
Project     : SSFL PHASE 3                     Date Received: 06/01/12
SDG NO.    : 12F020                           Date Extracted: 06/07/12 10:30
Sample ID:  SL-536-SA5C-SB-4.0-5.0           Date Analyzed: 06/08/12 18:47
Lab Samp ID: F020-15                          Dilution Factor: 0.957
Lab File ID: 98F05055                         Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : 7.4
Calib. Ref.: 98F05053                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13600	103	12.4
Antimony	0.233J	0.517	0.103
Arsenic	5.27	0.517	0.207
Barium	94.0	0.517	0.207
Beryllium	0.699	0.517	0.0517
Boron	ND	5.17	2.58
Cadmium	0.144J	0.517	0.0517
Calcium	3170	20.7	10.3
Chromium	19.4	0.517	0.207
Cobalt	3.99	0.517	0.0517
Copper	9.67	0.517	0.207
Iron	21200	103	10.3
Lead	7.00	0.517	0.103
Magnesium	3940	10.3	5.17
Manganese	143	0.517	0.258
Molybdenum	0.301J	0.517	0.0517
Nickel	8.75	0.517	0.207
Potassium	1730	103	31.0
Selenium	ND	0.517	0.207
Silver	ND	0.517	0.0517
Sodium	430	103	51.7
Strontium	30.7	0.517	0.258
Thallium	0.249J	0.413	0.0517
Tin	ND	10.3	5.17
Titanium	784	1.03	0.517
Vanadium	37.8	0.517	0.0517
Zinc	40.2	5.17	1.55
Lithium	16.8	2.07	1.03
Phosphorus	160	12.4	6.20
Zirconium	ND	5.17	2.58

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/01/12
Project    : SSFL PHASE 3                     Date Received: 06/01/12
SDG NO.    : 12F020                           Date Extracted: 06/07/12 10:30
Sample ID  : SL-536-SA5C-SB-9.0-10.0         Date Analyzed: 06/08/12 18:52
Lab Samp ID: F020-17                           Dilution Factor: 0.985
Lab File ID: 98F05056                           Matrix          : SOIL
Ext Btch ID: IMF015S                             % Moisture      : 9.5
Calib. Ref.: 98F05053                           Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13900	109	13.1
Antimony	0.243J	0.544	0.109
Arsenic	5.34	0.544	0.218
Barium	71.6	0.544	0.218
Beryllium	0.715	0.544	0.0544
Boron	ND	5.44	2.72
Cadmium	0.231J	0.544	0.0544
Calcium	5450	21.8	10.9
Chromium	18.5	0.544	0.218
Cobalt	6.02	0.544	0.0544
Copper	9.33	0.544	0.218
Iron	21000	109	10.9
Lead	5.93	0.544	0.109
Magnesium	4180	10.9	5.44
Manganese	242	0.544	0.272
Molybdenum	0.448J	0.544	0.0544
Nickel	12.6	0.544	0.218
Potassium	2360	109	32.7
Selenium	ND	0.544	0.218
Silver	0.0972J	0.544	0.0544
Sodium	436	109	54.4
Strontium	31.2	0.544	0.272
Thallium	0.277J	0.435	0.0544
Tin	ND	10.9	5.44
Titanium	748	1.09	0.544
Vanadium	34.2	0.544	0.0544
Zinc	47.5	5.44	1.63
Lithium	20.4	2.18	1.09
Phosphorus	197	13.1	6.53
Zirconium	ND	5.44	2.72

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12F020                           Date Extracted: 06/07/12 10:30
Sample ID  : MBLK1S                            Date Analyzed: 06/08/12 16:01
Lab Samp ID: IMF015SB                         Dilution Factor: 1
Lab File ID: 98F05019                        Matrix          : SOIL
Ext Btch ID: IMF015S                          % Moisture     : NA
Calib. Ref.: 98F05017                        Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F020  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF015SB IMF015SL IMF015SC  
LAB FILE ID: 98F05019 98F05031 98F05032  
DATIME EXTRACTD: 06/07/1210:30 06/07/1210:30 06/07/1210:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/08/1216:01 06/08/1216:55 06/08/1217:00 DATE RECEIVED: 06/07/12  
PREP. BATCH: IMF015S IMF015S IMF015S  
CALIB. REF: 98F05017 98F05029 98F05029

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2460	98	2500	2420	97	2	80-120	20
Antimony	ND	25.0	25.0	100	25.0	24.9	100	0	80-120	20
Arsenic	ND	25.0	24.3	97	25.0	24.2	97	0	80-120	20
Barium	ND	25.0	24.8	99	25.0	24.6	99	1	80-120	20
Beryllium	ND	25.0	25.8	103	25.0	25.5	102	1	80-120	20
Boron	ND	25.0	26.7	107	25.0	26.2	105	2	80-120	20
Cadmium	ND	25.0	24.3	97	25.0	24.2	97	1	80-120	20
Calcium	ND	2500	2630	105	2500	2640	106	0	80-120	20
Chromium	ND	25.0	24.4	98	25.0	24.5	98	0	80-120	20
Cobalt	ND	25.0	24.7	99	25.0	24.4	98	1	80-120	20
Copper	ND	25.0	24.2	97	25.0	24.2	97	0	80-120	20
Iron	ND	2500	2550	102	2500	2570	103	1	80-120	20
Lead	ND	25.0	24.9	100	25.0	24.5	98	2	80-120	20
Magnesium	ND	2500	2440	98	2500	2410	96	2	80-120	20
Manganese	ND	25.0	24.9	100	25.0	24.7	99	1	80-120	20
Molybdenum	ND	25.0	24.1	96	25.0	24.2	97	0	80-120	20
Nickel	ND	25.0	24.2	97	25.0	24.2	97	0	80-120	20
Potassium	ND	2500	2630	105	2500	2630	105	0	80-120	20
Selenium	ND	25.0	23.9	96	25.0	24.0	96	0	80-120	20
Silver	ND	25.0	24.3	97	25.0	24.2	97	0	80-120	20
Sodium	ND	2500	2540	102	2500	2560	102	1	80-120	20
Strontium	ND	25.0	24.9	100	25.0	24.7	99	1	80-120	20
Thallium	ND	25.0	24.8	99	25.0	24.5	98	1	80-120	20
Tin	ND	25.0	26.7	107	25.0	26.8	107	0	80-120	20
Titanium	ND	25.0	24.7	99	25.0	24.6	98	0	80-120	20
Vanadium	ND	25.0	24.4	98	25.0	24.3	97	0	80-120	20
Zinc	ND	50.0	47.6	95	50.0	47.9	96	1	80-120	20
Lithium	ND	25.0	25.2	101	25.0	25.4	101	1	80-120	20
Phosphorus	ND	250	235	94	250	232	93	1	80-120	20
Zirconium	ND	25.0	23.0	92	25.0	23.5	94	2	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F020  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.2  
DILTN FACTR: 0.939 0.939  
SAMPLE ID: SL-612-SA5C-SB-4.0-5.0  
CONTROL NO.: E267-18 E267-18A  
LAB FILE ID: 98F05025 98F05024  
DATIME EXTRACTD: 06/07/1210:30 06/07/1210:30 DATE COLLECTED: 05/31/12  
DATIME ANALYZD: 06/08/1216:28 06/08/1216:23 DATE RECEIVED: 05/31/12  
PREP. BATCH: IMF015S IMF015S  
CALIB. REF: 98F05017 98F05017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	11700	2530	14100	95	75-125
Antimony	0.331J	25.3	25.4	99	75-125
Arsenic	6.20	25.3	29.1	91	75-125
Barium	113	25.3	137	94	75-125
Beryllium	0.822	25.3	26.9	103	75-125
Boron	ND	25.3	28.3	112	75-125
Cadmium	0.227J	25.3	24.4	96	75-125
Calcium	6370	2530	8940	102	75-125
Chromium	20.4	25.3	42.9	89	75-125
Cobalt	8.11	25.3	31.3	92	75-125
Copper	12.1	25.3	34.1	87	75-125
Iron	23300	2530	25400	86	75-125
Lead	13.1	25.3	37.5	97	75-125
Magnesium	4750	2530	7060	91	75-125
Manganese	220	25.3	244	95	75-125
Molybdenum	0.453J	25.3	24.9	97	75-125
Nickel	13.6	25.3	35.7	87	75-125
Potassium	2100	2530	4620	99	75-125
Selenium	ND	25.3	23.8	94	75-125
Silver	ND	25.3	24.0	95	75-125
Sodium	314	2530	2640	92	75-125
Strontium	33.6	25.3	57.5	95	75-125
Thallium	0.269J	25.3	24.4	95	75-125
Tin	ND	25.3	27.8	110	75-125
Titanium	783	25.3	811	112	75-125
Vanadium	37.2	25.3	59.8	89	75-125
Zinc	74.5	50.6	123	95	75-125
Lithium	24.0	25.3	49.7	101	75-125
Phosphorus	355	253	584	91	75-125
Zirconium	ND	25.3	24.2	95	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F020  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.2  
 DILUTION FACTOR: 0.939 4.69  
 SAMPLE ID: SL-612-SA5C-SB SL-612-SA5C-SB  
 EMAX SAMP ID: E267-18 E267-18J  
 LAB FILE ID: 98F05025 98F05026  
 DATE EXTRACTED: 06/07/1210:30 06/07/1210:30 DATE COLLECTED: 05/31/12  
 DATE ANALYZED: 06/08/1216:28 06/08/1216:32 DATE RECEIVED: 05/31/12  
 PREP. BATCH: IMF015S IMF015S  
 CALIB. REF: 98F05017 98F05017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	11700	12400	6	10
Antimony	0.331J	ND	NA	10
Arsenic	6.20	6.56	6	10
Barium	113	107	5	10
Beryllium	0.822	0.832J	NA	10
Boron	ND	ND	0	10
Cadmium	0.227J	ND	NA	10
Calcium	6370	6710	5	10
Chromium	20.4	21.6	6	10
Cobalt	8.11	8.72	7	10
Copper	12.1	13.1	8	10
Iron	23300	24700	6	10
Lead	13.1	13.2	1	10
Magnesium	4750	5010	5	10
Manganese	220	237	8	10
Molybdenum	0.453J	0.462J	NA	10
Nickel	13.6	14.6	7	10
Potassium	2100	2180	4	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	314	334J	NA	10
Strontium	33.6	32.7	3	10
Thallium	0.269J	0.275J	NA	10
Tin	ND	ND	0	10
Titanium	783	808	3	10
Vanadium	37.2	38.8	4	10
Zinc	74.5	76.9	3	10
Lithium	24.0	22.9	5	10
Phosphorus	355	347	2	10
Zirconium	ND	ND	0	10

METHOD 7471A  
 MERCURY BY COLD VAPOR

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F020  
 =====

Matrix : SOIL  
 Instrument ID : TI047  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGF006SB	ND	1	NA	0.100	0.0500	06/06/1217:15	06/06/1213:00	M47F004029	M47F004020	HGF006S	NA	06/06/12
LCS1S	HGF006SL	0.843	1	NA	0.100	0.0500	06/06/1217:17	06/06/1213:00	M47F004030	M47F004020	HGF006S	NA	06/06/12
LCD1S	HGF006SC	0.847	1	NA	0.100	0.0500	06/06/1217:19	06/06/1213:00	M47F004031	M47F004020	HGF006S	NA	06/06/12
SL-536-SA5C-SB-4.0-5.0	F020-15	ND	0.995	7.4	0.107	0.0537	06/06/1218:19	06/06/1213:00	M47F004059	M47F004056	HGF006S	06/01/12	06/01/12
SL-536-SA5C-SB-9.0-10.0	F020-17	ND	0.997	9.5	0.110	0.0551	06/06/1218:22	06/06/1213:00	M47F004060	M47F004056	HGF006S	06/01/12	06/01/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F020  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF006SB HGF006SL HGF006SC  
LAB FILE ID: M47F004029 M47F004030 M47F004031  
DATIME EXTRCTD: 06/06/1213:00 06/06/1213:00 06/06/1213:00 DATE COLLECTED: NA  
DATIME ANALYZD: 06/06/1217:15 06/06/1217:17 06/06/1217:19 DATE RECEIVED: 06/06/12  
PREP. BATCH: HGF006S HGF006S HGF006S  
CALIB. REF: M47F004020 M47F004020 M47F004020

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.843	101	.833	.847	102	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F020  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 2.1  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: 216-SB09-SS2.5  
CONTROL NO.: F007-11 F007-11A  
LAB FILE ID: M47F004052 M47F004051  
DATIME EXTRCTD: 06/06/1213:00 06/06/1213:00 DATE COLLECTED: 05/31/12  
DATIME ANALYZD: 06/06/1218:05 06/06/1218:03 DATE RECEIVED: 06/01/12  
PREP. BATCH: HGF006S HGF006S  
CALIB. REF: M47F004044 M47F004044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.851	.875	103	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F020  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	2.1
DILUTION FACTOR:	1.00	5.01		
SAMPLE ID:	216-SB09-SS2.5	216-SB09-SS2.5DL		
EMAX SAMP ID:	F007-11	F007-11J		
LAB FILE ID:	M47F004052	M47F004053		
DATE EXTRACTED:	06/06/1213:00	06/06/1213:00	DATE COLLECTED:	05/31/12
DATE ANALYZED:	06/06/1218:05	06/06/1218:07	DATE RECEIVED:	06/01/12
PREP. BATCH:	HGF006S	HGF006S		
CALIB. REF:	M47F004044	M47F004044		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F020  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-536-SA5C-SB-4.0-5.0	F020-15	8.78	1	NA	NA	NA	06/04/1217:36	06/04/1216:56	PHF00401	NA	PHF004S	06/01/1214:27	06/01/12
SL-536-SA5C-SB-4.0-5.0	F020-15D	8.81	1	NA	NA	NA	06/04/1217:37	06/04/1216:56	PHF00402	NA	PHF004S	06/01/1214:27	06/01/12
SL-536-SA5C-SB-9.0-10.0	F020-17	8.64	1	NA	NA	NA	06/04/1217:38	06/04/1216:56	PHF00403	NA	PHF004S	06/01/1214:33	06/01/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12F020	DATE RECEIVED:	06/01/12
SAMPLE ID:	SL-536-SA5C-SB-4.0-5.0	DATE EXTRACTED:	06/04/12 16:56
CONTROL NO.:	F020-15D	DATE ANALYZED:	06/04/12 17:37

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	OC LIMIT (pH Unit)
pH	8.78	8.81	-0.03	0.1

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-564-SA5C-SB-0.0-0.5            Date Analyzed: 06/15/12 20:39
Lab Samp ID: F029-01                            Dilution Factor: 2
Lab File ID: RFL235                             Matrix          : SOIL
Ext Btch ID: SVF028S                            % Moisture     : 14.8
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	23	5.9
ACENAPHTHYLENE	ND	23	5.9
ANTHRACENE	ND	23	5.9
BENZO (A) ANTHRACENE	ND	23	5.9
BENZO (A) PYRENE	ND	23	5.9
BENZO (B) FLUORANTHENE	ND	23	5.9
BENZO (K) FLUORANTHENE	7.5J	23	5.9
BENZO (G, H, I) PERYLENE	ND	23	5.9
CHRYSENE	ND	23	5.9
DIBENZO (A, H) ANTHRACENE	ND	23	5.9
FLUORANTHENE	ND	23	5.9
FLUORENE	ND	23	5.9
INDENO (1, 2, 3-CD) PYRENE	ND	23	5.9
NAPHTHALENE	ND	23	5.9
PHENANTHRENE	ND	23	5.9
2-METHYLNAPHTHALENE	ND	23	5.9
1-METHYLNAPHTHALENE	ND	23	5.9
N-NITROSODIMETHYLAMINE	ND	23	5.9
PYRENE	ND	23	5.9
AZOBENZENE	ND	12	5.9
BENZO (E) PYRENE	8.8J	12	5.9
BIPHENYL	ND	12	5.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	202	391.2	51.8	40-130
2-FLUOROBIPHENYL	183	391.2	46.7	45-130
TERPHENYL-D14	344	391.2	88.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-564-SA5C-SB-4.0-5.0           Date Analyzed: 06/18/12 22:30
Lab Samp ID: F029-02W                           Dilution Factor: 1
Lab File ID: RFL264                               Matrix          : SOIL
Ext Btch ID: SVF028S                             % Moisture     : 11.6
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	230	377.0	61.1	40-130
2-FLUOROBIPHENYL	205	377.0	54.4	45-130
TERPHENYL-D14	346	377.0	91.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/14/12 13:36
Sample ID    : SL-564-SA5C-SB-9.0-10.0         Date Analyzed: 06/15/12 21:05
Lab Samp ID  : F029-03                          Dilution Factor: 2
Lab File ID  : RFL236                           Matrix          : SOIL
Ext Btch ID  : SVF028S                          % Moisture     : 8.8
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	ND	22	5.5
BENZO (A) ANTHRACENE	8.7J	22	5.5
BENZO (A) PYRENE	6.3J	22	5.5
BENZO (B) FLUORANTHENE	7.3J	22	5.5
BENZO (K) FLUORANTHENE	9.0J	22	5.5
BENZO (G, H, I) PERYLENE	ND	22	5.5
CHRYSENE	ND	22	5.5
DIBENZO (A, H) ANTHRACENE	ND	22	5.5
FLUORANTHENE	ND	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	6.7J	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	ND	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	7.3J	11	5.5
BIPHENYL	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	203	365.5	55.4	40-130
2-FLUOROBIPHENYL	194	365.5	53.0	45-130
TERPHENYL-D14	308	365.5	84.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-565-SA5C-SB-0.0-0.5            Date Analyzed: 06/15/12 15:02
Lab Samp ID: F029-07                            Dilution Factor: 1
Lab File ID: RFL222                              Matrix          : SOIL
Ext Btch ID: SVF028S                            % Moisture     : 7.1
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	3.0J	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	4.6J	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	3.1J	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	4.1J	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	136	358.8	37.9*	40-130
2-FLUOROBIPHENYL	131	358.8	36.4*	45-130
TERPHENYL-D14	260	358.8	72.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-565-SA5C-SB-4.0-5.0           Date Analyzed: 06/15/12 15:27
Lab Samp ID: F029-08                           Dilution Factor: 1
Lab File ID: RFL223                            Matrix          : SOIL
Ext Btch ID: SVF028S                          % Moisture     : 7.3
Calib. Ref.: REL181                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	144	359.5	40.0	40-130
2-FLUOROBIPHENYL	132	359.5	36.7*	45-130
TERPHENYL-D14	208	359.5	57.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-565-SA5C-SB-9.0-10.0           Date Analyzed: 06/15/12 15:52
Lab Samp ID: F029-09                             Dilution Factor: 1
Lab File ID: RFL224                              Matrix          : SOIL
Ext Btch ID: SVF028S                             % Moisture     : 9.5
Calib. Ref.: REL181                              Instrument ID  : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	2.8J	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	192	368.3	52.2	40-130
2-FLUOROBIPHENYL	179	368.3	48.6	45-130
TERPHENYL-D14	298	368.3	80.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/18/12 15:00
Sample ID    : SL-566-SA5C-SB-4.0-5.0          Date Analyzed: 06/20/12 04:49
Lab Samp ID  : F029-10R                         Dilution Factor: 1
Lab File ID  : RFL295                           Matrix          : SOIL
Ext Btch ID  : SVF036S                          % Moisture     : 9.9
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	220	369.9	59.6	40-130
2-FLUOROBIPHENYL	175	369.9	47.3	45-130
TERPHENYL-D14	239	369.9	64.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/14/12 13:36
Sample ID    : SL-566-SA5C-SB-9.0-10.0         Date Analyzed: 06/20/12 05:15
Lab Samp ID  : F029-11W                         Dilution Factor: 3
Lab File ID  : RFL296                           Matrix          : SOIL
Ext Btch ID  : SVF028S                          % Moisture     : 10.9
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	34	8.4
ACENAPHTHYLENE	ND	34	8.4
ANTHRACENE	ND	34	8.4
BENZO (A) ANTHRACENE	19J	34	8.4
BENZO (A) PYRENE	44	34	8.4
BENZO (B) FLUORANTHENE	59	34	8.4
BENZO (K) FLUORANTHENE	31J	34	8.4
BENZO (G, H, I) PERYLENE	20J	34	8.4
CHRYSENE	38	34	8.4
DIBENZO (A, H) ANTHRACENE	ND	34	8.4
FLUORANTHENE	58	34	8.4
FLUORENE	ND	34	8.4
INDENO (1, 2, 3-CD) PYRENE	13J	34	8.4
NAPHTHALENE	ND	34	8.4
PHENANTHRENE	38	34	8.4
2-METHYLNAPHTHALENE	ND	34	8.4
1-METHYLNAPHTHALENE	ND	34	8.4
N-NITROSODIMETHYLAMINE	ND	34	8.4
PYRENE	61	34	8.4
AZOBENZENE	ND	17	8.4
BENZO (E) PYRENE	47	17	8.4
BIPHENYL	ND	17	8.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	252	374.1	67.4	40-130
2-FLUOROBIPHENYL	203	374.1	54.4	45-130
TERPHENYL-D14	285	374.1	76.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/14/12
Batch No.    : 12F029                           Date Extracted: 06/14/12 13:36
Sample ID    : MBLK1S                           Date Analyzed: 06/15/12 10:45
Lab Samp ID  : SVF028SB                         Dilution Factor: 1
Lab File ID  : RFL213                           Matrix          : SOIL
Ext Btch ID  : SVF028S                          % Moisture      : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	238	333.3	71.3	40-130
2-FLUOROBIPHENYL	220	333.3	66.0	45-130
TERPHENYL-D14	323	333.3	96.9	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F029                           Date Extracted: 06/18/12 15:00
Sample ID    : MBLK2S                            Date Analyzed: 06/19/12 19:40
Lab Samp ID  : SVF036SB                         Dilution Factor: 1
Lab File ID  : RFL274                           Matrix          : SOIL
Ext Btch ID  : SVF036S                          % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	242	333.3	72.5	40-130
2-FLUOROBIPHENYL	202	333.3	60.5	45-130
TERPHENYL-D14	266	333.3	79.8	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F029  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF028SB SVF028SL SVF028SC  
LAB FILE ID: RFL213 RFL211 RFL212  
DATE EXTRACTED: 06/14/1213:36 06/14/1213:36 06/14/1213:36 DATE COLLECTED: NA  
DATE ANALYZED: 06/15/1210:45 06/15/1209:56 06/15/1210:19 DATE RECEIVED: 06/14/12  
PREP. BATCH: SVF028S SVF028S SVF028S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	287	86	333	286	86	0	10-130	50
Acenaphthylene	ND	333	302	91	333	297	89	2	20-130	50
Anthracene	ND	333	300	90	333	314	94	5	20-130	50
Benzo (a) anthracene	ND	333	301	90	333	339	102	12	30-130	50
Benzo (a) pyrene	ND	333	333	100	333	365	109	9	30-130	50
Benzo (b) fluoranthene	ND	333	366	110	333	377	113	3	40-130	50
Benzo (k) fluoranthene	ND	333	334	100	333	371	111	11	30-140	50
Benzo (g, h, i) perylene	ND	333	298	89	333	331	99	11	30-140	50
Chrysene	ND	333	315	94	333	344	103	9	30-140	50
Dibenzo (a, h) anthracene	ND	333	319	96	333	352	106	10	40-140	50
Fluoranthene	ND	333	333	100	333	358	107	7	30-130	50
Fluorene	ND	333	288	86	333	290	87	1	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	311	93	333	346	104	11	20-160	50
Naphthalene	ND	333	251	75	333	252	76	0	10-130	50
Phenanthrene	ND	333	310	93	333	326	98	5	20-130	50
2-Methylnaphthalene	ND	333	268	81	333	272	82	1	30-150	50
1-Methylnaphthalene	ND	333	284	85	333	283	85	0	30-150	50
N-Nitrosodimethylamine	ND	333	366	110	333	366	110	0	30-150	50
Pyrene	ND	333	317	95	333	352	106	11	20-150	50
Azobenzene	ND	333	278	84	333	285	85	2	30-150	50
Benzo (e) pyrene	ND	333	326	98	333	324	97	1	30-150	50
Biphenyl	ND	333	250	75	333	230	69	8	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	260	78	333	248	75	40-130
2-Fluorobiphenyl	333	245	74	333	228	68	45-130
Terphenyl-d14	333	331	99	333	329	99	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F029  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2S  
LAB SAMP ID: SVF036SB SVF036SL SVF036SC  
LAB FILE ID: RFL274 RFL275 RFL276  
DATE EXTRACTED: 06/18/1215:00 06/18/1215:00 06/18/1215:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/19/1219:40 06/19/1220:06 06/19/1220:32 DATE RECEIVED: 06/18/12  
PREP. BATCH: SVF036S SVF036S SVF036S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	271	81	333	256	77	5	10-130	50
Acenaphthylene	ND	333	276	83	333	272	81	2	20-130	50
Anthracene	ND	333	275	83	333	262	78	5	20-130	50
Benzo (a) anthracene	ND	333	265	80	333	285	86	7	30-130	50
Benzo (a) pyrene	ND	333	315	95	333	323	97	3	30-130	50
Benzo (b) fluoranthene	ND	333	331	99	333	350	105	5	40-130	50
Benzo (k) fluoranthene	ND	333	345	103	333	349	105	1	30-140	50
Benzo (g, h, i) perylene	ND	333	318	96	333	339	102	6	30-140	50
Chrysene	ND	333	272	82	333	294	88	8	30-140	50
Dibenzo (a, h) anthracene	ND	333	341	102	333	362	108	6	40-140	50
Fluoranthene	ND	333	328	99	333	339	102	3	30-130	50
Fluorene	ND	333	257	77	333	243	73	5	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	332	100	333	360	108	8	20-160	50
Naphthalene	ND	333	298	89	333	276	83	8	10-130	50
Phenanthrene	ND	333	292	87	333	282	85	3	20-130	50
2-Methylnaphthalene	ND	333	264	79	333	251	75	5	30-150	50
1-Methylnaphthalene	ND	333	277	83	333	263	79	5	30-150	50
N-Nitrosodimethylamine	ND	333	406	122	333	354	106	14	30-150	50
Pyrene	ND	333	323	97	333	333	100	3	20-150	50
Azobenzene	ND	333	232	70	333	225	67	3	30-150	50
Benzo (e) pyrene	ND	333	304	91	333	320	96	5	30-150	50
Biphenyl	ND	333	232	70	333	233	70	0	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	269	81	333	256	77	40-130
2-Fluorobiphenyl	333	226	68	333	216	65	45-130
Terphenyl-d14	333	257	77	333	275	83	45-130

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/12/12 15:21
Sample ID    : SL-564-SA5C-SB-0.0-0.5          Date Analyzed: 06/14/12 09:04
Lab Samp ID  : F029-01                           Dilution Factor: 1
Lab File ID  : SF13036A                         Matrix          : SOIL
Ext Btch ID  : CPF013S                          % Moisture     : 14.8
Calib. Ref.  : SF13022A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	10.38   (11.04)	15.65	66.4   (70.6)	45-120
TETRACHLORO-M-XYLENE	14.11   (15.16)	15.65	90.2   (96.9)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/12/12 15:21
Sample ID    : SL-564-SA5C-SB-4.0-5.0          Date Analyzed: 06/14/12 03:12
Lab Samp ID  : F029-02                          Dilution Factor: 1
Lab File ID  : SF13026A                        Matrix          : SOIL
Ext Btch ID  : CPF013S                         % Moisture     : 11.6
Calib. Ref.  : SF13022A                       Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	12.35   (12.84)	15.08	81.9   (85.2)	45-120
TETRACHLORO-M-XYLENE	12.27   (13.37)	15.08	81.4   (88.7)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/12/12 15:21
Sample ID   : SL-564-SA5C-SB-9.0-10.0          Date Analyzed: 06/14/12 04:57
Lab Samp ID : F029-03                           Dilution Factor: 1
Lab File ID : SF13029A                          Matrix          : SOIL
Ext Btch ID : CPF013S                            % Moisture     : 8.8
Calib. Ref. : SF13022A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	9.238   (9.390)	14.62	63.2   (64.2)	45-120
TETRACHLORO-M-XYLENE	12.44   (13.60)	14.62	85.1   (93.0)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/12/12 15:21
Sample ID    : SL-573-SA5C-SB-0.0-0.5          Date Analyzed: 06/14/12 05:32
Lab Samp ID  : F029-04                           Dilution Factor: 1
Lab File ID  : SF13030A                          Matrix          : SOIL
Ext Btch ID  : CPF013S                            % Moisture     : 10.7
Calib. Ref.  : SF13022A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.52   (11.63)	14.93	77.2   (77.9)	45-120
TETRACHLORO-M-XYLENE	(14.09)   14.06	14.93	(94.4)   94.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/12/12 15:21
Sample ID:   SL-573-SA5C-SB-4.0-5.0            Date Analyzed: 06/14/12 06:08
Lab Samp ID: F029-05                            Dilution Factor: 1
Lab File ID: SF13031A                          Matrix          : SOIL
Ext Btch ID: CPF013S                            % Moisture     : 12.2
Calib. Ref.: SF13022A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.79   (12.16)	15.18	77.6   (80.1)	45-120
TETRACHLORO-M-XYLENE	13.97   (14.25)	15.18	92.0   (93.9)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/12/12 15:21
Sample ID    : SL-573-SA5C-SB-9.0-10.0         Date Analyzed: 06/14/12 09:39
Lab Samp ID  : F029-06                          Dilution Factor: 1
Lab File ID  : SF13037A                        Matrix          : SOIL
Ext Btch ID  : CPF013S                          % Moisture     : 11.3
Calib. Ref.  : SF13022A                        Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	8.964   (9.060)	15.03	59.6   (60.3)	45-120
TETRACHLORO-M-XYLENE	12.47   (13.17)	15.03	83.0   (87.6)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/12/12 15:21
Sample ID:   SL-565-SA5C-SB-0.0-0.5            Date Analyzed: 06/14/12 06:43
Lab Samp ID: F029-07                            Dilution Factor: 1
Lab File ID: SF13032A                           Matrix          : SOIL
Ext Btch ID: CPF013S                             % Moisture     : 7.1
Calib. Ref.: SF13022A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	12.38   (12.46)	14.35	86.3   (86.8)	45-120
TETRACHLORO-M-XYLENE	11.71   (12.22)	14.35	81.6   (85.2)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/12/12 15:21
Sample ID:   SL-565-SA5C-SB-4.0-5.0           Date Analyzed: 06/14/12 07:18
Lab Samp ID: F029-08                           Dilution Factor: 1
Lab File ID: SF13033A                          Matrix          : SOIL
Ext Btch ID: CPF013S                            % Moisture     : 7.3
Calib. Ref.: SF13022A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIIPHENYL	(13.77)   13.61	14.38	(95.8)   94.7	45-120
TETRACHLORO-M-XYLENE	11.16   (12.52)	14.38	77.6   (87.1)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/12/12 15:21
Sample ID    : SL-565-SA5C-SB-9.0-10.0         Date Analyzed: 06/14/12 07:53
Lab Samp ID  : F029-09                          Dilution Factor: 1
Lab File ID  : SF13034A                        Matrix          : SOIL
Ext Btch ID  : CPF013S                          % Moisture     : 9.5
Calib. Ref.  : SF13022A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.66)   13.53	14.73	(92.7)   91.8	45-120
TETRACHLORO-M-XYLENE	12.55   (13.30)	14.73	85.2   (90.3)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/12/12 15:21
Sample ID    : SL-566-SA5C-SB-4.0-5.0          Date Analyzed: 06/14/12 08:28
Lab Samp ID  : F029-10                          Dilution Factor: 1
Lab File ID  : SF13035A                         Matrix          : SOIL
Ext Btch ID  : CPF013S                           % Moisture     : 9.9
Calib. Ref.  : SF13022A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.78   (12.08)	14.79	79.6   (81.6)	45-120
TETRACHLORO-M-XYLENE	(12.51)   12.31	14.79	(84.6)   83.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/12/12 15:21
Sample ID    : SL-566-SA5C-SB-9.0-10.0         Date Analyzed: 06/14/12 10:14
Lab Samp ID  : F029-11                           Dilution Factor: 1
Lab File ID  : SF13038A                         Matrix          : SOIL
Ext Btch ID  : CPF013S                          % Moisture     : 10.9
Calib. Ref.  : SF13022A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(8.992)   8.832	14.96	(60.1)   59.0	45-120
TETRACHLORO-M-XYLENE	13.63   (14.14)	14.96	91.1   (94.5)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/12/12
Batch No.    : 12F029                             Date Extracted: 06/12/12 15:21
Sample ID    : MBLK1S                             Date Analyzed: 06/13/12 17:48
Lab Samp ID  : 60F013SB                           Dilution Factor: 1
Lab File ID  : SF13010A                           Matrix          : SOIL
Ext Btch ID  : CPF013S                             % Moisture     : NA
Calib. Ref.  : SF13003A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	12.41   (13.51)	13.33	93.1   (101)	45-120
TETRACHLORO-M-XYLENE	9.619   (13.24)	13.33	72.2   (99.3)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F029  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F013SB 60F013SL 60F013SC  
LAB FILE ID: SF13010A SF13011A SF13012A  
DATE EXTRACTED: 06/12/1215:21 06/12/1215:21 06/12/1215:21 DATE COLLECTED: NA  
DATE ANALYZED: 06/13/1217:48 06/13/1218:23 06/13/1218:58 DATE RECEIVED: 06/12/12  
PREP. BATCH: CPF013S CPF013S CPF013S  
CALIB. REF: SF13003A SF13003A SF13003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	144   (184)	86   (110)	167	145   (169)	87   (101)	1   (8)	50-130	50
Aroclor 1260	(ND)   ND	167	171   (179)	103   (107)	167	162   (175)	97   (105)	5   (2)	60-150	50
Aroclor 5460	(ND)   ND	83.3	88.4   (89.6)	106   (108)	83.3	86.7   (87.7)	104   (105)	2   (2)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(12.85)   12.02	(96.4)   90.2	13.33	(12.82)   12.00	(96.2)   90.0	45-120
Tetrachloro-m-xylene	13.33	12.21   (12.85)	91.6   (96.4)	13.33	12.53   (13.03)	94.0   (97.8)	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F029  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 11.6  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-564-SA5C-SB-4.0-5.0  
LAB SAMP ID: F029-02 F029-02M F029-02S  
LAB FILE ID: SF13026A SF13027A SF13028A  
DATE EXTRACTED: 06/12/1215:21 06/12/1215:21 06/12/1215:21 DATE COLLECTED: 06/04/12  
DATE ANALYZED: 06/14/1203:12 06/14/1203:47 06/14/1204:22 DATE RECEIVED: 06/04/12  
PREP. BATCH: CPF013S CPF013S CPF013S  
CALIB. REF: SF13022A SF13022A SF13022A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	189	169   (185)	90   (98)	189	153   (174)	81   (92)	10   (6)	20-160	50
Aroclor 1260	(ND)   ND	189	149   (181)	79   (96)	189	148   (187)	78   (99)	1   (3)	20-160	50
Aroclor 5460	(ND)   ND	94.3	(102)   101	(108)   107	94.3	(101)   100	(107)   106	(1)   1	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	15.08	12.25   (12.88)	81.2   (85.4)	15.08	12.78   (12.92)	84.7   (85.7)	45-120
Tetrachloro-m-xylene	15.08	13.28   (14.14)	88.1   (93.8)	15.08	13.02   (13.77)	86.4   (91.3)	10-160

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 06/04/12
Project     : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.   : 12F029                           Date Extracted: 06/05/12 09:15
Sample ID   : SL-573-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 15:41
Lab Samp ID : F029-04                           Dilution Factor: 1
Lab File ID : BF06013A                          Matrix          : SOIL
Ext Btch ID : MEF003S                            % Moisture     : 10.7
Calib. Ref. : BF06007A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	560	280
ISOPROPANOL	ND	560	280
METHANOL	ND	560	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/05/12 09:15
Sample ID:   SL-573-SA5C-SB-4.0-5.0            Date Analyzed: 06/06/12 15:57
Lab Samp ID: F029-05                            Dilution Factor: 1
Lab File ID: BF06014A                          Matrix          : SOIL
Ext Btch ID: MEF003S                           % Moisture     : 12.2
Calib. Ref.: BF06007A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	570	280
ISOPROPANOL	ND	570	280
METHANOL	ND	570	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/05/12 09:15
Sample ID:   SL-573-SA5C-SB-9.0-10.0           Date Analyzed: 06/06/12 18:09
Lab Samp ID: F029-06                            Dilution Factor: 1
Lab File ID: BF06017A                          Matrix          : SOIL
Ext Btch ID: MEF003S                            % Moisture     : 11.3
Calib. Ref.: BF06007A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	560	280
ISOPROPANOL	ND	560	280
METHANOL	ND	560	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.   : 12F029                             Date Extracted: 06/05/12 09:15
Sample ID   : MBLK1S                             Date Analyzed: 06/06/12 13:59
Lab Samp ID: MEF003SB                           Dilution Factor: 1
Lab File ID: BF06008A                           Matrix          : SOIL
Ext Btch ID: MEF003S                             % Moisture      : NA
Calib. Ref.: BF06007A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F029  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEF003SB MEF003SX MEF003SY  
LAB FILE ID: BF06008A BF06011A BF06012A  
DATE EXTRACTED: 06/05/1209:15 06/05/1209:15 06/05/1209:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1213:59 06/06/1214:54 06/06/1215:11 DATE RECEIVED: 06/05/12  
PREP. BATCH: MEF003S MEF003S MEF003S  
CALIB. REF: BF06007A BF06007A BF06007A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	12100	121	10000	12000	120	0	50-150	50
Isopropanol	ND	10000	10800	108	10000	10100	101	7	50-150	50
Methanol	ND	10000	8640	86	10000	8860	89	3	50-150	50

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/04/12
Project     : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.   : 12F029                           Date Extracted: 06/05/12 09:15
Sample ID   : SL-573-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 17:19
Lab Samp ID : F029-04                           Dilution Factor: 1
Lab File ID : TF06010A                         Matrix          : SOIL
Ext Btch ID : PEF003S                          % Moisture     : 10.7
Calib. Ref. : TF06006A                         Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.4
ETHYLENE GLYCOL	ND	11	5.6
PROPYLENE GLYCOL	ND	11	5.6

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/05/12 09:15
Sample ID    : SL-573-SA5C-SB-4.0-5.0          Date Analyzed: 06/06/12 17:37
Lab Samp ID  : F029-05                           Dilution Factor: 1
Lab File ID  : TF06011A                         Matrix          : SOIL
Ext Btch ID  : PEF003S                          % Moisture     : 12.2
Calib. Ref.  : TF06006A                         Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.5
ETHYLENE GLYCOL	ND	11	5.7
PROPYLENE GLYCOL	ND	11	5.7

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/04/12
Batch No.    : 12F029                           Date Extracted: 06/05/12 09:15
Sample ID    : SL-573-SA5C-SB-9.0-10.0         Date Analyzed: 06/06/12 17:54
Lab Samp ID  : F029-06                          Dilution Factor: 1
Lab File ID  : TF06012A                        Matrix          : SOIL
Ext Btch ID  : PEF003S                          % Moisture     : 11.3
Calib. Ref.  : TF06006A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.5
ETHYLENE GLYCOL	ND	11	5.6
PROPYLENE GLYCOL	ND	11	5.6

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.   : 12F029                           Date Extracted: 06/05/12 09:15
Sample ID   : MBLK1S                           Date Analyzed: 06/06/12 16:56
Lab Samp ID: PEF003SB                         Dilution Factor: 1
Lab File ID: TF06009A                        Matrix          : SOIL
Ext Btch ID: PEF003S                          % Moisture     : NA
Calib. Ref.: TF06006A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F029  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEF003SB PEF003SL PEF003SC  
LAB FILE ID: TF06009A TF06007A TF06008A  
DATE EXTRACTED: 06/05/1209:15 06/05/1209:15 06/05/1209:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1216:56 06/06/1215:17 06/06/1215:54 DATE RECEIVED: 06/05/12  
PREP. BATCH: PEF003S PEF003S PEF003S  
CALIB. REF: TF06006A TF06006A TF06006A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	52.9	106	50.0	53.2	106	1	50-150	50
Ethylene Glycol	ND	50.0	44.0	88	50.0	44.1	88	0	50-150	50
Propylene Glycol	ND	25.0	24.6	99	25.0	24.2	97	2	50-150	50

METHOD 7199  
 HEXAVALENT CHROMIUM

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F029

Matrix : SOIL  
 Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCF003SB	ND	1	NA	1.00	0.500	06/07/1220:58	06/06/1215:35	IF08025	IF08023	HCF003S	NA	06/06/12
MBLK1S	HCF003SQ	ND	1	NA	1.00	0.500	06/07/1221:08	06/06/1215:35	IF08026	IF08023	HCF003S	NA	06/06/12
LCS1S	CSF003SL	10.9	1	NA	1.00	0.500	06/07/1221:19	06/06/1215:35	IF08027	IF08023	HCF003S	NA	06/06/12
LCS1S	CSF003SX	10.7	1	NA	1.00	0.500	06/07/1221:29	06/06/1215:35	IF08028	IF08023	HCF003S	NA	06/06/12
LCS2S	CIF003SL	238	10	NA	10.0	5.00	06/07/1221:39	06/06/1215:35	IF08029	IF08023	HCF003S	NA	06/06/12
LCS2S	CIF003SX	238	10	NA	10.0	5.00	06/07/1221:50	06/06/1215:35	IF08030	IF08023	HCF003S	NA	06/06/12
SL-573-SA5C-SB-0.0-0.5	F029-04	ND	1	10.7	1.12	0.560	06/07/1223:23	06/06/1215:35	IF08039	IF08035	HCF003S	06/04/1210:30	06/04/12
SL-573-SA5C-SB-0.0-0.5	F029-04R	ND	1	10.7	1.12	0.560	06/07/1223:34	06/06/1215:35	IF08040	IF08035	HCF003S	06/04/1210:30	06/04/12
SL-573-SA5C-SB-4.0-5.0	F029-05	ND	1	12.2	1.14	0.569	06/07/1223:44	06/06/1215:35	IF08041	IF08035	HCF003S	06/04/1210:40	06/04/12
SL-573-SA5C-SB-4.0-5.0	F029-05R	ND	1	12.2	1.14	0.569	06/07/1223:55	06/06/1215:35	IF08042	IF08035	HCF003S	06/04/1210:40	06/04/12
SL-573-SA5C-SB-9.0-10.0	F029-06	ND	1	11.3	1.13	0.564	06/08/1200:05	06/06/1215:35	IF08043	IF08035	HCF003S	06/04/1210:45	06/04/12
SL-573-SA5C-SB-9.0-10.0	F029-06R	ND	1	11.3	1.13	0.564	06/08/1200:15	06/06/1215:35	IF08044	IF08035	HCF003S	06/04/1210:45	06/04/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F029  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF003SB CSF003SL  
LAB FILE ID: 1F08025 1F08027  
DATE EXTRACTED: 06/06/1215:35 06/06/1215:35 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1220:58 06/07/1221:19 DATE RECEIVED: 06/06/12  
PREP. BATCH: HCF003S HCF003S  
CALIB. REF: 1F08023 1F08023

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	10.9	109	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F029  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF003SQ CSF003SX  
LAB FILE ID: IF08026 IF08028  
DATE EXTRACTED: 06/06/1215:35 06/06/1215:35 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1221:08 06/07/1221:29 DATE RECEIVED: 06/06/12  
PREP. BATCH: HCF003S HCF003S  
CALIB. REF: IF08023 IF08023

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	10.7	107	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F029  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF003SB CIF003SL  
LAB FILE ID: IF08025 IF08029  
DATE EXTRACTED: 06/06/1215:35 06/06/1215:35 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1220:58 06/07/1221:39 DATE RECEIVED: 06/06/12  
PREP. BATCH: HCF003S HCF003S  
CALIB. REF: IF08023 IF08023

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
----- Hexavalent Chromium	ND	255	238	93	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F029  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF003SQ CIF003SX  
LAB FILE ID: IF08026 IF08030  
DATE EXTRACTED: 06/06/1215:35 06/06/1215:35 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1221:08 06/07/1221:50 DATE RECEIVED: 06/06/12  
PREP. BATCH: HCF003S HCF003S  
CALIB. REF: IF08023 IF08023

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	255	238	93	80-120

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F029  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-573-SA5C-SB-0.0-0.5	F029-04	7.82	1	NA	NA	NA	06/05/1216:43	06/05/1216:11	PHF00501	NA	PHF005S	06/04/1210:30	06/04/12
SL-573-SA5C-SB-4.0-5.0	F029-05	8.63	1	NA	NA	NA	06/05/1216:44	06/05/1216:11	PHF00502	NA	PHF005S	06/04/1210:40	06/04/12
SL-573-SA5C-SB-9.0-10.0	F029-06	8.45	1	NA	NA	NA	06/05/1216:45	06/05/1216:11	PHF00503	NA	PHF005S	06/04/1210:45	06/04/12
SL-573-SA5C-SB-9.0-10.0	F029-06D	8.50	1	NA	NA	NA	06/05/1216:46	06/05/1216:11	PHF00504	NA	PHF005S	06/04/1210:45	06/04/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12F029	DATE RECEIVED:	06/04/12
SAMPLE ID:	SL-573-SA5C-SB-9.0-10.0	DATE EXTRACTED:	06/05/12 16:11
CONTROL NO.:	F029-06D	DATE ANALYZED:	06/05/12 16:46

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	8.45	8.50	-0.05	0.1

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 15:09
Sample ID    : FB-060512                        Date Analyzed: 06/06/12 15:09
Lab Samp ID  : F037-01                          Dilution Factor: 1
Lab File ID  : RFV059                           Matrix          : WATER
Ext Btch ID  : VO01F03                          % Moisture     : NA
Calib. Ref.  : RBV366                           Instrument ID   : T-001
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	26	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	9.77	10.00	97.7	80-120
4-BROMOFLUOROBENZENE	9.73	10.00	97.3	86-115
TOLUENE-D8	9.71	10.00	97.1	88-110
DIBROMOFLUOROMETHANE	9.16	10.00	91.6	86-118

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 12:47
Sample ID    : MBLK1W                           Date Analyzed: 06/06/12 12:47
Lab Samp ID  : VO01F03B                         Dilution Factor: 1
Lab File ID  : RFV054                           Matrix          : WATER
Ext Btch ID  : VO01F03                          % Moisture      : NA
Calib. Ref.  : RBV366                           Instrument ID   : T-001
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	9.53	10.00	95.3	80-120
4-BROMOFLUOROBENZENE	9.31	10.00	93.1	86-115
TOLUENE-D8	9.48	10.00	94.8	88-110
DIBROMOFLUOROMETHANE	9.28	10.00	92.8	86-118

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VO01F03B VO01F03L VO01F03C  
LAB FILE ID: RFV054 RFV052 RFV053  
DATE EXTRACTED: 06/06/1212:47 06/06/1211:49 06/06/1212:19 DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1212:47 06/06/1211:49 06/06/1212:19 DATE RECEIVED: 06/06/12  
PREP. BATCH: VO01F03 VO01F03 VO01F03  
CALIB. REF: RBV366 RBV366 RBV366

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	10.0	9.61	96	10.0	9.48	95	1	70-130	30
1,1,1-Trichloroethane	ND	10.0	10.2	102	10.0	9.77	98	4	70-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.62	96	10.0	8.95	90	7	70-130	30
1,1,2-Trichloroethane	ND	10.0	9.52	95	10.0	9.15	91	4	70-130	30
1,1-Dichloroethane	ND	10.0	9.57	96	10.0	9.22	92	4	70-130	30
1,1-Dichloroethene	ND	10.0	8.90	89	10.0	8.49	85	5	60-130	30
1,1-Dichloropropene	ND	10.0	9.70	97	10.0	9.72	97	0	70-140	30
1,2,3-Trichlorobenzene	ND	10.0	10.2	102	10.0	9.70	97	5	60-130	30
1,2,3-Trichloropropane	ND	10.0	10.1	101	10.0	9.56	96	6	70-140	30
1,2,4-Trichlorobenzene	ND	10.0	10.4	104	10.0	10.1	101	3	60-140	30
1,2,4-Trimethylbenzene	ND	10.0	10.5	105	10.0	10.3	103	2	70-130	30
1,2-Dibromo-3-chloropropane	ND	10.0	8.14	81	10.0	7.81	78	4	60-130	30
1,2-Dichlorobenzene	ND	10.0	9.90	99	10.0	9.72	97	2	70-130	30
1,2-Dichloroethane	ND	10.0	10.3	103	10.0	9.83	98	4	70-130	30
1,2-Dichloropropane	ND	10.0	9.45	95	10.0	9.27	93	2	70-130	30
1,2-Dibromoethane (EDB)	ND	10.0	9.18	92	10.0	8.90	89	3	70-140	30
1,3,5-Trimethylbenzene	ND	10.0	10.4	104	10.0	10.3	103	1	70-130	30
1,3-Dichlorobenzene	ND	10.0	10.0	100	10.0	9.70	97	3	70-130	30
1,3-Dichloropropane	ND	10.0	8.97	90	10.0	8.64	86	4	70-130	30
1,4-Dichlorobenzene	ND	10.0	9.97	100	10.0	9.61	96	4	70-130	30
2,2-Dichloropropane	ND	10.0	9.80	98	10.0	9.56	96	2	50-140	30
2-Chlorotoluene	ND	10.0	9.94	99	10.0	9.68	97	3	70-130	30
4-Chlorotoluene	ND	10.0	10.3	103	10.0	9.96	100	3	70-130	30
Benzene	ND	10.0	9.32	93	10.0	9.05	90	3	70-130	30
Bromobenzene	ND	10.0	10.1	101	10.0	9.79	98	3	70-130	30
Bromochloromethane	ND	10.0	9.40	94	10.0	8.97	90	5	70-130	30
Bromodichloromethane	ND	10.0	9.08	91	10.0	8.93	89	2	70-130	30
Bromoform	ND	10.0	9.82	98	10.0	9.35	94	5	60-140	30
Bromomethane	ND	10.0	9.98	100	10.0	9.27	93	7	50-140	30
Carbon Tetrachloride	ND	10.0	10.2	102	10.0	10.1	101	0	70-130	30
Chlorobenzene	ND	10.0	9.82	98	10.0	9.69	97	1	70-120	30
Chloroethane	ND	10.0	10.3	103	10.0	9.51	95	8	70-140	30
Chloroform	ND	10.0	9.77	98	10.0	9.45	95	3	70-130	30
Chloromethane	ND	10.0	8.79	88	10.0	8.18	82	7	60-130	30
cis-1,2-Dichloroethene	ND	10.0	8.49	85	10.0	8.17	82	4	70-130	30
cis-1,3-Dichloropropene	ND	10.0	9.17	92	10.0	8.95	89	2	70-130	30
Dibromochloromethane	ND	10.0	9.44	94	10.0	9.17	92	3	70-130	30
Dibromomethane	ND	10.0	9.67	97	10.0	9.44	94	2	70-140	30
Dichlorodifluoromethane	ND	10.0	9.93	99	10.0	9.18	92	8	50-140	30
Ethylbenzene	ND	10.0	9.77	98	10.0	9.68	97	1	70-130	30
Hexachlorobutadiene	ND	10.0	11.5	115	10.0	11.4	114	1	60-140	30
Isopropyl Benzene	ND	10.0	11.5	115	10.0	11.4	114	1	70-150	30
m,p-Xylene	ND	20.0	19.1	95	20.0	18.9	94	1	70-130	30
Methyl tert-butyl Ether (MTBE)	ND	10.0	9.22	92	10.0	8.47	85	8	70-140	30
Methylene Chloride	ND	10.0	9.36	94	10.0	8.77	88	7	70-130	30
n-Butylbenzene	ND	10.0	10.9	109	10.0	10.9	109	0	60-130	30
n-Propylbenzene	ND	10.0	10.3	103	10.0	10.2	102	1	70-140	30
o-Xylene	ND	10.0	9.41	94	10.0	9.28	93	1	70-130	30

p-Isopropyltoluene	ND	10.0	11.2	112	10.0	11.1	111	1	70-140	30
Sec-Butylbenzene	ND	10.0	10.6	106	10.0	10.5	105	1	70-130	30
Styrene	ND	10.0	10.1	101	10.0	9.81	98	3	70-130	30
Tert-Butylbenzene	ND	10.0	10.1	101	10.0	10.1	101	0	70-130	30
Tetrachloroethene	ND	10.0	9.42	94	10.0	9.50	95	1	70-130	30
Toluene	ND	10.0	9.42	94	10.0	9.30	93	1	70-130	30
Trans-1,2-Dichloroethene	ND	10.0	8.81	88	10.0	8.53	85	3	70-130	30
Trans-1,3-Dichloropropene	ND	10.0	9.15	91	10.0	8.92	89	2	70-140	30
Trichloroethene	ND	10.0	9.51	95	10.0	9.46	95	1	70-130	30
Trichlorofluoromethane	ND	10.0	11.4	114	10.0	10.3	103	10	70-140	30
Vinyl Chloride	ND	10.0	9.64	96	10.0	8.97	90	7	60-150	30
Acetone	ND	50.0	42.3	85	50.0	39.2	78	8	50-150	30
2-Butanone (MEK)	ND	50.0	46.4	93	50.0	43.8	88	6	60-140	30
2-Hexanone	ND	50.0	46.5	93	50.0	44.3	89	5	70-140	30
4-Methyl-2-Pentanone (MIBK)	ND	50.0	46.9	94	50.0	45.5	91	3	60-140	30
Freon113	ND	10.0	10.4	104	10.0	10.0	100	4	70-140	30
2-Chloroethyl Vinyl Ether	ND	10.0	10.2	102	10.0	9.59	96	6	30-160	30
2-Chloro-1,1,1-trifluoroethane	ND	10.0	11.1	111	10.0	10.6	106	5	50-150	30
Chlorotrifluoroethylene	ND	10.0	8.25	82	10.0	8.01	80	3	50-150	30
1-Chlorohexane	ND	10.0	9.58	96	10.0	9.64	96	1	50-150	30
Carbon Disulfide	ND	10.0	8.36	84	10.0	8.64	86	3	40-150	30
Ethyl tertiary butyl Ether (ETBE)	ND	10.0	9.31	93	10.0	8.67	87	7	40-160	30
Iodomethane	ND	10.0	10.4	104	10.0	9.98	100	4	40-150	30
Tertiary Amyl Methyl Ether (TAME)	ND	10.0	9.12	91	10.0	8.58	86	6	50-150	30
Tertiary butyl Alcohol	ND	50.0	40.6	81	50.0	36.6	73	10	20-160	30
Vinyl Acetate	ND	10.0	10.2	102	10.0	8.49	85	18	10-160	30
Acrolein	ND	50.0	47.9	96	50.0	46.1	92	4	30-160	30
Acrylonitrile	ND	50.0	40.9	82	50.0	40.0	80	2	50-150	30
Diisopropyl Ether	ND	10.0	9.59	96	10.0	9.08	91	5	50-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	10.0	9.84	98	10.0	9.46	95	80-120
4-Bromofluorobenzene	10.0	8.99	90	10.0	8.99	90	86-115
Toluene-d8	10.0	9.10	91	10.0	9.45	95	88-110
Dibromofluoromethane	10.0	9.38	94	10.0	9.15	92	86-118

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/07/12 14:03
Sample ID    : FB-060512                        Date Analyzed: 06/07/12 14:03
Lab Samp ID  : F037-01                          Dilution Factor: 1
Lab File ID  : RPY063                           Matrix          : WATER
Ext Btch ID  : VOF5F06                           % Moisture     : NA
Calib. Ref.  : RKY092                           Instrument ID   : TOF5
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
1,4-DIOXANE	ND	2.0	1.0
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	4.00	5.000	80.0 50-150

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F037                           Date Extracted: 06/07/12 12:00
Sample ID    : MBLK1W                           Date Analyzed: 06/07/12 12:00
Lab Samp ID  : VOF5F06B                         Dilution Factor: 1
Lab File ID  : RPY059                           Matrix          : WATER
Ext Btch ID  : VOF5F06                           % Moisture     : NA
Calib. Ref.  : RKY092                           Instrument ID   : TOF5
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	4.83	5.000	96.6	50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: 5030B/8260B SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VOF5F06B VOF5F06L VOF5F06C  
LAB FILE ID: RFY059 RFY056 RFY057  
DATE EXTRACTED: 06/07/1212:00 06/07/1210:27 06/07/1210:58 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1212:00 06/07/1210:27 06/07/1210:58 DATE RECEIVED: 06/07/12  
PREP. BATCH: VOF5F06 VOF5F06 VOF5F06  
CALIB. REF: RKY092 RKY092 RKY092

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,4-Dioxane	ND	50.0	46.4	93	50.0	47.5	95	3	50-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	5.00	4.39	88	5.00	4.44	89	50-150

METHOD 3520C/8270C  
SEMI VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM
Project      : SSFL PHASE 3
Batch No.    : 12F037
Sample ID    : FB-060512RE
Lab Samp ID  : F037-01R
Lab File ID  : RFH037
Ext Btch ID  : SVF030W
Calib. Ref. : REH015
Date Collected: 06/05/12
Date Received: 06/05/12
Date Extracted: 06/14/12 15:00
Date Analyzed: 06/18/12 14:34
Dilution Factor: 1.06
Matrix       : WATER
% Moisture   : NA
Instrument ID: T-OE7
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,4-TRICHLOROBENZENE	ND	11	5.3
1,2-DICHLOROBENZENE	ND	11	5.3
1,2-DIPHENYLHYDRAZINE (1)	ND	11	5.3
1,3-DICHLOROBENZENE	ND	11	5.3
1,4-DICHLOROBENZENE	ND	11	5.3
2,4,5-TRICHLOROPHENOL	ND	11	5.3
2,4,6-TRICHLOROPHENOL	ND	11	5.3
2,4-DICHLOROPHENOL	ND	11	5.3
2,4-DIMETHYLPHENOL	ND	11	5.3
2,4-DINITROPHENOL	ND	21	5.3
2-CHLORONAPHTHALENE	ND	11	5.3
2-CHLOROPHENOL	ND	11	5.3
2-METHYLPHENOL	ND	11	5.3
2-NITROANILINE	ND	11	5.3
2-NITROPHENOL	ND	11	5.3
2,6-DICHLOROPHENOL	ND	11	5.3
3,3'-DICHLOROBENZIDINE	ND	11	5.3
3,5-DIMETHYLPHENOL	ND	21	5.3
3-NITROANILINE	ND	11	5.3
4,6-DINITRO-2-METHYLPHENOL	ND	21	5.3
4-BROMOPHENYL-PHENYLETHER	ND	11	5.3
4-CHLORO-3-METHYLPHENOL	ND	11	5.3
4-CHLOROANILINE	ND	11	5.3
4-CHLOROPHENYL-PHENYLETHER	ND	11	5.3
4-METHYLPHENOL (2)	ND	11	5.3
4-NITROANILINE	ND	11	5.3
4-NITROPHENOL	ND	21	5.3
ANILINE	ND	21	5.3
BENZIDINE	ND	53	2.1
BENZOIC ACID	ND	42	2.1
BENZYL ALCOHOL	ND	11	5.3
BIS(2-CHLOROETHOXY)METHANE	ND	11	5.3
BIS(2-CHLOROETHYL)ETHER	ND	11	5.3
BIS(2-CHLOROISOPROPYL)ETHER	ND	11	5.3
BIS(2-ETHYLHEXYL)PHTHALATE	ND	21	5.3
BUTYLBENZYLPHTHALATE	ND	11	5.3
CARBAZOLE	ND	11	5.3
DIBENZOFURAN	ND	11	5.3
DIETHYLPHTHALATE	ND	11	5.3
DIMETHYLPHTHALATE	ND	11	5.3
DI-N-BUTYLPHTHALATE	ND	11	5.3
DI-N-OCTYLPHTHALATE	ND	11	5.3
HEXACHLOROBENZENE	ND	11	5.3
HEXACHLOROBUTADIENE	ND	11	5.3
HEXACHLOROCYCLOPENTADIENE	ND	21	5.3
HEXACHLOROETHANE	ND	11	5.3
ISOPHORONE	ND	11	5.3
NITROBENZENE	ND	11	5.3
N-NITROSO-DI-N-PROPYLAMINE	ND	11	5.3
PENTACHLOROPHENOL	ND	21	5.3
PHENOL	ND	11	5.3
N-NITROSODIPHENYLAMINE (3)	ND	11	5.3
TETRALIN	ND	11	5.3
2-BUTOXYETHANOL	ND	11	5.3
2-PHENOXYETHANOL	ND	11	5.3

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	41.2	63.60	64.9	30-130
2-FLUOROBIPHENYL	12.4	21.20	58.3	45-130
2-FLUOROPHENOL	30.9	63.60	48.5	20-130
NITROBENZENE-D5	11.5	21.20	54.2	40-130
PHENOL-D5	34.7	63.60	54.6	20-130
TERPHENYL-D14	18.4	21.20	86.7	45-135

(1): Cannot be separated from Azobenzene  
(2): Cannot be separated from 3-Methylphenol and m+p Cresol  
(3): Cannot be separated from Diphenylamine  
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C  
SEMI VOLATILE ORGANICS BY GC/MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/14/12
Batch No.   : 12F037                           Date Extracted: 06/14/12 15:00
Sample ID   : MBLK2W                           Date Analyzed: 06/18/12 13:38
Lab Samp ID: SVF030WB                          Dilution Factor: 1
Lab File ID: RFH034                             Matrix: WATER
Ext Btch ID: SVF030W                           % Moisture: NA
Calib. Ref.: REH015                            Instrument ID: T-OE7
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,4-TRICHLOROBENZENE	ND	10	5.0
1,2-DICHLOROBENZENE	ND	10	5.0
1,2-DIPHENYLHYDRAZINE (1)	ND	10	5.0
1,3-DICHLOROBENZENE	ND	10	5.0
1,4-DICHLOROBENZENE	ND	10	5.0
2,4,5-TRICHLOROPHENOL	ND	10	5.0
2,4,6-TRICHLOROPHENOL	ND	10	5.0
2,4-DICHLOROPHENOL	ND	10	5.0
2,4-DIMETHYLPHENOL	ND	10	5.0
2,4-DINITROPHENOL	ND	20	5.0
2-CHLORONAPHTHALENE	ND	10	5.0
2-CHLOROPHENOL	ND	10	5.0
2-METHYLPHENOL	ND	10	5.0
2-NITROANILINE	ND	10	5.0
2-NITROPHENOL	ND	10	5.0
2,6-DICHLOROPHENOL	ND	10	5.0
3,3'-DICHLOROBENZIDINE	ND	10	5.0
3,5-DIMETHYLPHENOL	ND	20	5.0
3-NITROANILINE	ND	10	5.0
4,6-DINITRO-2-METHYLPHENOL	ND	20	5.0
4-BROMOPHENYL-PHENYLETHER	ND	10	5.0
4-CHLORO-3-METHYLPHENOL	ND	10	5.0
4-CHLOROANILINE	ND	10	5.0
4-CHLOROPHENYL-PHENYLETHER	ND	10	5.0
4-METHYLPHENOL (2)	ND	10	5.0
4-NITROANILINE	ND	10	5.0
4-NITROPHENOL	ND	20	5.0
ANILINE	ND	20	10
BENZIDINE	ND	50	20
BENZOIC ACID	ND	40	20
BENZYL ALCOHOL	ND	10	5.0
BIS(2-CHLOROETHOXY)METHANE	ND	10	5.0
BIS(2-CHLOROETHYL)ETHER	ND	10	5.0
BIS(2-CHLOROISOPROPYL)ETHER	ND	10	5.0
BIS(2-ETHYLHEXYL)PHTHALATE	ND	20	5.0
BUTYLBENZYLPHTHALATE	ND	10	5.0
CARBAZOLE	ND	10	5.0
DIBENZOFURAN	ND	10	5.0
DIETHYLPHTHALATE	ND	10	5.0
DIMETHYLPHTHALATE	ND	10	5.0
DI-N-BUTYLPHTHALATE	ND	10	5.0
DI-N-OCTYLPHTHALATE	ND	10	5.0
HEXACHLOROBENZENE	ND	10	5.0
HEXACHLOROBUTADIENE	ND	10	5.0
HEXACHLOROCYCLOPENTADIENE	ND	20	5.0
HEXACHLOROETHANE	ND	10	5.0
1-SOPHORONE	ND	10	5.0
NITROBENZENE	ND	10	5.0
N-NITROSO-DI-N-PROPYLAMINE	ND	10	5.0
PENTACHLOROPHENOL	ND	20	5.0
PHENOL	ND	10	5.0
N-NITROSODIPHENYLAMINE (3)	ND	10	5.0
TETRALIN	ND	10	5.0
2-BUTOXYETHANOL	ND	10	5.0
2-PHENOXYETHANOL	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	45.7	60.00	76.2	30-130
2-FLUOROBIPHENYL	18.2	20.00	91.2	45-130
2-FLUOROPHENOL	45.0	60.00	75.1	20-130
NITROBENZENE-D5	18.4	20.00	92.1	40-130
PHENOL-D5	48.9	60.00	81.5	20-120
TERPHENYL-D14	20.5	20.00	103	45-135

(1): Cannot be separated from Azobenzene  
(2): Cannot be separated from 3-Methylphenol and m+p Cresol  
(3): Cannot be separated from Diphenylamine  
Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3520C/8270C

MATRIX: WATER  
DILUTION FACTOR: 1 1 % MOISTURE: NA  
SAMPLE ID: MBLK2W  
LAB SAMP ID: SVF030WL SVF030WC  
LAB FILE ID: RFH035 RFH036  
DATE EXTRACTED: 06/14/12 15:00 06/14/12 15:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/18/12 13:38 06/18/12 13:57 DATE RECEIVED: 06/14/12  
PREP. BATCH: SVF030W SVF030W  
CALIB. REF: REH015 REH015 REH015

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,2,4-Trichlorobenzene	ND	40.0	26.8	67	40.0	22.4	56	18	30-130	30
1,2-Dichlorobenzene	ND	40.0	28.0	70	40.0	22.9	57	20	30-130	30
1,2-Diphenylhydrazine	ND	40.0	32.3	81	40.0	31.1	78	4	30-130	30
1,3-Dichlorobenzene	ND	40.0	27.9	70	40.0	23.2	58	19	30-130	30
1,4-Dichlorobenzene	ND	40.0	28.2	70	40.0	23.1	58	20	30-130	30
2,4,5-Trichlorophenol	ND	40.0	30.5	76	40.0	28.5	71	7	30-130	30
2,4,6-Trichlorophenol	ND	40.0	32.5	81	40.0	30.9	77	5	30-130	30
2,4-Dichlorophenol	ND	40.0	31.7	79	40.0	27.4	68	15	40-130	30
2,4-Dimethylphenol	ND	40.0	32.8	82	40.0	28.3	71	15	30-130	30
2,4-Dinitrophenol	ND	40.0	35.4	89	40.0	33.9	85	5	30-130	30
2-Chloronaphthalene	ND	40.0	31.7	78	40.0	27.4	68	14	40-130	30
2-Chlorophenol	ND	40.0	29.9	75	40.0	26.3	66	13	30-130	30
2-Methylphenol	ND	40.0	28.6	71	40.0	24.6	61	15	30-130	30
2-Nitroaniline	ND	40.0	38.4	96	40.0	35.8	89	7	40-130	30
2-Nitrophenol	ND	40.0	30.9	77	40.0	26.1	65	17	40-130	30
2,6-Dichlorophenol	ND	40.0	30.3	76	40.0	25.9	65	16	30-150	30
3,1-Dichlorobenzidine	ND	40.0	36.6	92	40.0	35.0	87	5	20-140	30
3,5-Dimethylphenol	ND	40.0	37.5	69	40.0	24.4	61	12	20-150	30
3-Nitroaniline	ND	40.0	33.9	85	40.0	31.7	79	7	30-130	30
4,6-Dinitro-2-Methylphenol	ND	40.0	36.8	92	40.0	33.4	81	13	40-130	30
4-Bromophenyl-phenylether	ND	40.0	36.6	91	40.0	35.4	89	2	50-130	30
4-Chloro-3-Methylphenol	ND	40.0	34.4	86	40.0	33.1	80	8	30-130	30
4-Chloroaniline	ND	40.0	39.3	74	40.0	32.7	64	14	30-130	30
4-Chlorophenyl-phenylether	ND	40.0	37.6	94	40.0	34.4	86	9	50-130	30
4-Methylphenol	ND	40.0	30.6	76	40.0	27.3	68	12	30-130	30
4-Nitroaniline	ND	40.0	38.8	97	40.0	35.5	89	9	30-130	30
4-Nitrophenol	ND	40.0	38.1	95	40.0	33.8	85	12	30-130	30
Aniline	ND	40.0	33.3	58	40.0	19.7	49	17	10-130	30
Benzidine	ND	80.0	56.1	70	80.0	50.1	63	11	20-130	30
Benzidic Acid	ND	80.0	61.5	77	80.0	59.2	74	4	10-130	30
Benzyl Alcohol	ND	40.0	31.5	79	40.0	27.3	68	14	30-130	30
bis(2-Chloroethoxy)methane	ND	40.0	32.3	81	40.0	27.7	69	15	40-130	30
bis(2-Chloroethyl)ether	ND	40.0	33.3	83	40.0	26.8	67	22	30-130	30
bis(2-Chloroisopropyl)ether	ND	40.0	36.7	92	40.0	30.4	76	19	20-130	30
bis(2-Ethylhexyl)phthalate	ND	40.0	37.8	95	40.0	38.2	95	1	20-140	30
Butylbenzylphthalate	ND	40.0	39.3	98	40.0	39.8	100	1	40-130	30
Carbazole	ND	40.0	35.8	89	40.0	33.8	84	6	50-130	30
Dibenzofuran	ND	40.0	35.0	87	40.0	31.9	80	9	40-130	30
Diethylphthalate	ND	40.0	36.9	92	40.0	35.2	88	5	30-140	30
Dimethylphthalate	ND	40.0	34.8	87	40.0	32.8	82	6	30-130	30
Di-n-butylphthalate	ND	40.0	37.3	93	40.0	35.6	89	5	30-160	30
Di-n-octylphthalate	ND	40.0	37.9	95	40.0	38.6	96	2	20-150	30
Hexachlorobenzene	ND	40.0	32.6	82	40.0	30.9	77	5	30-130	30
Hexachlorobutadiene	ND	40.0	29.2	73	40.0	24.1	60	19	10-130	30
Hexachlorocyclopentadiene	ND	40.0	24.7	62	40.0	20.5	51	19	10-130	30
Hexachloroethane	ND	40.0	29.1	73	40.0	23.4	59	22	20-130	30
Isophorone	ND	40.0	33.0	83	40.0	31.8	80	4	40-130	30
Nitrobenzene	ND	40.0	33.9	85	40.0	28.9	72	16	30-130	30
n-Nitroso-di-n-propylamine	ND	40.0	29.4	74	40.0	25.1	63	16	30-130	30
Pentachlorophenol	ND	40.0	29.9	75	40.0	29.5	74	1	30-130	30
Phenol	ND	40.0	30.7	77	40.0	25.9	65	17	20-130	30
n-Nitrosodiphenylamine	ND	40.0	29.5	74	40.0	28.1	70	5	10-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
2,4,6-Tribromophenol	60.0	46.9	78	60.0	46.7	78	30-130
2-Fluorobiphenyl	20.0	14.2	71	20.0	12.5	63	45-130
2-Fluorophenol	60.0	34.8	58	60.0	31.2	52	20-130
Nitrobenzene-d5	20.0	14.7	74	20.0	12.5	63	40-130
Phenol-d5	60.0	40.4	67	60.0	35.5	59	20-120
Terphenyl-d14	20.0	17.1	85	20.0	17.9	89	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 11:30
Sample ID:   FB-060512                          Date Analyzed: 06/13/12 15:25
Lab Samp ID: F037-01                             Dilution Factor: 1.09
Lab File ID: RFL170                              Matrix          : WATER
Ext Btch ID: SVF023W                            % Moisture     : NA
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.22	0.11
ACENAPHTHYLENE	ND	0.22	0.11
ANTHRACENE	ND	0.22	0.11
BENZO (A) ANTHRACENE	ND	0.22	0.11
BENZO (A) PYRENE	ND	0.22	0.11
BENZO (B) FLUORANTHENE	ND	0.22	0.11
BENZO (K) FLUORANTHENE	ND	0.22	0.11
BENZO (G, H, I) PERYLENE	ND	0.22	0.11
CHRYSENE	ND	0.22	0.11
DIBENZO (A, H) ANTHRACENE	ND	0.22	0.11
FLUORANTHENE	ND	0.22	0.11
FLUORENE	ND	0.22	0.11
INDENO (1, 2, 3-CD) PYRENE	ND	0.22	0.11
NAPHTHALENE	ND	0.22	0.11
PHENANTHRENE	ND	0.22	0.11
2-METHYLNAPHTHALENE	ND	0.22	0.11
1-METHYLNAPHTHALENE	ND	0.22	0.11
N-NITROSODIMETHYLAMINE	ND	1.1	0.11
PYRENE	ND	0.22	0.11
AZOBENZENE	ND	1.1	0.11
BENZO (E) PYRENE	ND	0.22	0.11
BIPHENYL	ND	2.2	0.55

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	11.9	21.80	54.4	40-130
2-FLUOROBIPHENYL	10.2	21.80	46.6	45-130
TERPHENYL-D14	16.8	21.80	77.1	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 11:30
Sample ID    : MBLK1W                           Date Analyzed: 06/13/12 14:10
Lab Samp ID  : SVF023WB                         Dilution Factor: 1
Lab File ID  : RFL167                           Matrix          : WATER
Ext Btch ID  : SVF023W                           % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	13.8	20.00	69.1	40-130
2-FLUOROBIPHENYL	12.2	20.00	61.0	45-130
TERPHENYL-D14	19.1	20.00	95.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3520C/8270C SIM

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MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVF023WB SVF023WL SVF023WY  
LAB FILE ID: RFL167 RFL168 RFL191  
DATE EXTRACTED: 06/11/1211:30 06/11/1211:30 06/11/1211:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/13/1214:10 06/13/1214:33 06/14/1213:53 DATE RECEIVED: 06/11/12  
PREP. BATCH: SVF023W SVF023W SVF023W  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	32.0	80	40.0	26.9	67	17	20-130	30
Acenaphthylene	ND	40.0	32.7	82	40.0	26.9	67	20	30-140	30
Anthracene	ND	40.0	36.4	91	40.0	37.8	94	4	40-130	30
Benzo (a) anthracene	ND	40.0	37.2	93	40.0	39.8	100	7	50-130	30
Benzo (a) pyrene	ND	40.0	40.0	100	40.0	43.0	107	7	50-130	30
Benzo (b) fluoranthene	ND	40.0	41.3	103	40.0	42.8	107	4	50-130	30
Benzo (k) fluoranthene	ND	40.0	37.8	95	40.0	41.9	105	10	50-130	30
Benzo (g, h, i) perylene	ND	40.0	38.0	95	40.0	41.6	104	9	30-150	30
Chrysene	ND	40.0	38.6	96	40.0	39.5	99	2	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	39.8	99	40.0	44.7	112	12	40-140	30
Fluoranthene	ND	40.0	41.1	103	40.0	40.5	101	1	40-130	30
Fluorene	ND	40.0	32.7	82	40.0	29.9	75	9	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	39.8	100	40.0	44.5	111	11	40-130	30
Naphthalene	ND	40.0	28.3	71	40.0	21.3	53	28	20-130	30
Phenanthrene	ND	40.0	37.6	94	40.0	38.4	96	2	40-130	30
2-Methylnaphthalene	ND	40.0	31.1	78	40.0	23.3	58	29	30-150	30
1-Methylnaphthalene	ND	40.0	34.7	87	40.0	25.6	64	30	40-150	30
N-Nitrosodimethylamine	ND	40.0	39.1	98	40.0	31.0	78	23	20-150	30
Pyrene	ND	40.0	40.9	102	40.0	40.8	102	0	40-130	30
Azobenzene	ND	40.0	32.1	80	40.0	32.2	80	0	30-150	30
Benzo (e) pyrene	ND	40.0	37.4	93	40.0	38.7	97	3	30-150	30
Biphenyl	ND	40.0	29.3	73	40.0	23.1	58	24	30-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	13.5	67	20.0	10.5	53	40-130
2-Fluorobiphenyl	20.0	12.6	63	20.0	10.0	50	45-130
Terphenyl-d14	20.0	18.4	92	20.0	19.2	96	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 15:00
Sample ID:   SL-545-SA5C-SB-0.0-0.5            Date Analyzed: 06/13/12 22:59
Lab Samp ID: F037-02                            Dilution Factor: 1
Lab File ID: RFL186                             Matrix          : SOIL
Ext Btch ID: SVF026S                            % Moisture     : 12.2
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	25	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	47	11	2.8
BENZO (A) ANTHRACENE	110	11	2.8
BENZO (A) PYRENE	110	11	2.8
BENZO (B) FLUORANTHENE	140	11	2.8
BENZO (K) FLUORANTHENE	57	11	2.8
BENZO (G, H, I) PERYLENE	33	11	2.8
CHRYSENE	100	11	2.8
DIBENZO (A, H) ANTHRACENE	9.3J	11	2.8
FLUORANTHENE	270	11	2.8
FLUORENE	13	11	2.8
INDENO (1, 2, 3-CD) PYRENE	33	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	160	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	280	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	65	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	218	379.6	57.4	40-130
2-FLUOROBIPHENYL	211	379.6	55.5	45-130
TERPHENYL-D14	331	379.6	87.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/13/12 15:00
Sample ID:   SL-545-SA5C-SB-4.0-5.0             Date Analyzed: 06/15/12 12:02
Lab Samp ID: F037-03                             Dilution Factor: 1
Lab File ID: RFL216                               Matrix          : SOIL
Ext Btch ID: SVF026S                             % Moisture     : 12.7
Calib. Ref.: REL181                              Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	230	381.8	60.2	40-130
2-FLUOROBIPHENYL	207	381.8	54.3	45-130
TERPHENYL-D14	335	381.8	87.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 15:00
Sample ID:   SL-545-SA5C-SB-9.0-10.0           Date Analyzed: 06/15/12 12:27
Lab Samp ID: F037-05                            Dilution Factor: 1
Lab File ID: RFL217                             Matrix          : SOIL
Ext Btch ID: SVF026S                            % Moisture     : 12.2
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	4.9J	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	220	379.6	58.0	40-130
2-FLUOROBIPHENYL	195	379.6	51.3	45-130
TERPHENYL-D14	347	379.6	91.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 15:00
Sample ID:   SL-543-SA5C-SB-0.0-0.5            Date Analyzed: 06/13/12 19:31
Lab Samp ID: F037-07                           Dilution Factor: 1
Lab File ID: RFL178                             Matrix          : SOIL
Ext Btch ID: SVF026S                            % Moisture     : 9.7
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	149	369.1	40.5	40-130
2-FLUOROBIPHENYL	134	369.1	36.2*	45-130
TERPHENYL-D14	260	369.1	70.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 15:00
Sample ID:   SL-543-SA5C-SB-3.5-4.5           Date Analyzed: 06/13/12 19:58
Lab Samp ID: F037-08                           Dilution Factor: 1
Lab File ID: RFL179                            Matrix          : SOIL
Ext Btch ID: SVF026S                          % Moisture     : 6.3
Calib. Ref.: REL181                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	ND	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	119	355.7	33.3*	40-130
2-FLUOROBIPHENYL	104	355.7	29.1*	45-130
TERPHENYL-D14	204	355.7	57.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 15:00
Sample ID:   SL-552-SA5C-SB-0.0-0.5            Date Analyzed: 06/15/12 13:44
Lab Samp ID: F037-10                            Dilution Factor: 6
Lab File ID: RFL220                             Matrix          : SOIL
Ext Btch ID: SVF026S                            % Moisture     : 5.8
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	64	16
ACENAPHTHYLENE	ND	64	16
ANTHRACENE	ND	64	16
BENZO (A) ANTHRACENE	23J	64	16
BENZO (A) PYRENE	34J	64	16
BENZO (B) FLUORANTHENE	38J	64	16
BENZO (K) FLUORANTHENE	41J	64	16
BENZO (G, H, I) PERYLENE	29J	64	16
CHRYSENE	ND	64	16
DIBENZO (A, H) ANTHRACENE	ND	64	16
FLUORANTHENE	ND	64	16
FLUORENE	ND	64	16
INDENO (1, 2, 3-CD) PYRENE	ND	64	16
NAPHTHALENE	ND	64	16
PHENANTHRENE	ND	64	16
2-METHYLNAPHTHALENE	ND	64	16
1-METHYLNAPHTHALENE	ND	64	16
N-NITROSODIMETHYLAMINE	ND	64	16
PYRENE	ND	64	16
AZOBENZENE	ND	32	16
BENZO (E) PYRENE	70	32	16
BIPHENYL	ND	32	16

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	207	353.8	58.6	40-130
2-FLUOROBIPHENYL	215	353.8	60.6	45-130
TERPHENYL-D14	265	353.8	74.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 15:00
Sample ID:   SL-552-SA5C-SB-0.0-0.5            Date Analyzed: 06/18/12 23:48
Lab Samp ID: F037-10W                           Dilution Factor: 6
Lab File ID: RFL267                               Matrix          : SOIL
Ext Btch ID: SVF026S                             % Moisture     : 5.8
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	64	16
ACENAPHTHYLENE	ND	64	16
ANTHRACENE	ND	64	16
BENZO (A) ANTHRACENE	20J	64	16
BENZO (A) PYRENE	31J	64	16
BENZO (B) FLUORANTHENE	27J	64	16
BENZO (K) FLUORANTHENE	37J	64	16
BENZO (G, H, I) PERYLENE	24J	64	16
CHRYSENE	ND	64	16
DIBENZO (A, H) ANTHRACENE	ND	64	16
FLUORANTHENE	ND	64	16
FLUORENE	ND	64	16
INDENO (1, 2, 3-CD) PYRENE	ND	64	16
NAPHTHALENE	ND	64	16
PHENANTHRENE	ND	64	16
2-METHYLNAPHTHALENE	ND	64	16
1-METHYLNAPHTHALENE	ND	64	16
N-NITROSODIMETHYLAMINE	ND	64	16
PYRENE	ND	64	16
AZOBENZENE	ND	32	16
BENZO (E) PYRENE	64	32	16
BIPHENYL	ND	32	16

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	189	353.8	53.4	40-130
2-FLUOROBIPHENYL	193	353.8	54.5	45-130
TERPHENYL-D14	266	353.8	75.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 15:00
Sample ID:   SL-561-SA5C-SB-0.0-0.5           Date Analyzed: 06/15/12 12:53
Lab Samp ID: F037-11                           Dilution Factor: 1
Lab File ID: RFL218                             Matrix          : SOIL
Ext Btch ID: SVF026S                           % Moisture     : 11.8
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	194	377.9	51.4	40-130
2-FLUOROBIPHENYL	198	377.9	52.4	45-130
TERPHENYL-D14	335	377.9	88.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 15:00
Sample ID:   SL-561-SA5C-SB-5.5-6.5           Date Analyzed: 06/15/12 13:18
Lab Samp ID: F037-12                           Dilution Factor: 1
Lab File ID: RFL219                             Matrix          : SOIL
Ext Btch ID: SVF026S                            % Moisture     : 5.6
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.6
ACENAPHTHYLENE	ND	11	2.6
ANTHRACENE	ND	11	2.6
BENZO (A) ANTHRACENE	6.6J	11	2.6
BENZO (A) PYRENE	4.0J	11	2.6
BENZO (B) FLUORANTHENE	4.5J	11	2.6
BENZO (K) FLUORANTHENE	5.8J	11	2.6
BENZO (G, H, I) PERYLENE	3.0J	11	2.6
CHRYSENE	ND	11	2.6
DIBENZO (A, H) ANTHRACENE	ND	11	2.6
FLUORANTHENE	ND	11	2.6
FLUORENE	ND	11	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.6
NAPHTHALENE	ND	11	2.6
PHENANTHRENE	ND	11	2.6
2-METHYLNAPHTHALENE	ND	11	2.6
1-METHYLNAPHTHALENE	ND	11	2.6
N-NITROSODIMETHYLAMINE	ND	11	2.6
PYRENE	ND	11	2.6
AZOBENZENE	ND	5.3	2.6
BENZO (E) PYRENE	7.0	5.3	2.6
BIPHENYL	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	177	353.1	50.1	40-130
2-FLUOROBIPHENYL	180	353.1	51.1	45-130
TERPHENYL-D14	277	353.1	78.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 15:00
Sample ID:   SL-615-SA5C-SB-4.0-5.0           Date Analyzed: 06/13/12 20:24
Lab Samp ID: F037-14                           Dilution Factor: 1
Lab File ID: RFL180                             Matrix          : SOIL
Ext Btch ID: SVF026S                           % Moisture      : 13.4
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	114	384.9	29.7*	40-130
2-FLUOROBIPHENYL	102	384.9	26.4*	45-130
TERPHENYL-D14	276	384.9	71.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 15:00
Sample ID:   SL-615-SA5C-SB-9.0-10.0           Date Analyzed: 06/13/12 20:50
Lab Samp ID: F037-16                             Dilution Factor: 1
Lab File ID: RFL181                               Matrix          : SOIL
Ext Btch ID: SVF026S                             % Moisture     : 9.2
Calib. Ref.: REL181                               Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	124	367.1	33.8*	40-130
2-FLUOROBIPHENYL	107	367.1	29.1*	45-130
TERPHENYL-D14	291	367.1	79.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/18/12 15:00
Sample ID:   SL-539-SA5C-SB-0.0-0.5            Date Analyzed: 06/20/12 02:38
Lab Samp ID: F037-18R                           Dilution Factor: 1
Lab File ID: RFL290                               Matrix          : SOIL
Ext Btch ID: SVF036S                             % Moisture     : 11.7
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	249	377.5	66.1	40-130
2-FLUOROBIPHENYL	206	377.5	54.5	45-130
TERPHENYL-D14	299	377.5	79.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 15:00
Sample ID:   SL-539-SA5C-SB-6.0-7.0           Date Analyzed: 06/13/12 21:41
Lab Samp ID: F037-19                           Dilution Factor: 1
Lab File ID: RFL183                             Matrix          : SOIL
Ext Btch ID: SVF026S                           % Moisture     : 9.5
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	122	368.3	33.1*	40-130
2-FLUOROBIPHENYL	110	368.3	30.0*	45-130
TERPHENYL-D14	287	368.3	77.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/18/12 15:00
Sample ID:   SL-551-SA5C-SB-0.0-0.5           Date Analyzed: 06/20/12 03:30
Lab Samp ID: F037-21R                           Dilution Factor: 1
Lab File ID: RFL292                               Matrix          : SOIL
Ext Btch ID: SVF036S                             % Moisture      : 13.8
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	255	386.7	66.1	40-130
2-FLUOROBIPHENYL	207	386.7	53.6	45-130
TERPHENYL-D14	278	386.7	72.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 15:00
Sample ID:   SL-551-SA5C-SB-4.0-5.0            Date Analyzed: 06/13/12 22:33
Lab Samp ID: F037-22                           Dilution Factor: 1
Lab File ID: RFL185                             Matrix          : SOIL
Ext Btch ID: SVF026S                            % Moisture     : 10.6
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	146	372.8	39.0*	40-130
2-FLUOROBIPHENYL	134	372.8	35.9*	45-130
TERPHENYL-D14	270	372.8	72.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/13/12
Batch No.    : 12F037                             Date Extracted: 06/13/12 15:00
Sample ID    : MBLK1S                             Date Analyzed: 06/13/12 17:28
Lab Samp ID  : SVF026SB                           Dilution Factor: 1
Lab File ID  : RFL173                              Matrix          : SOIL
Ext Btch ID  : SVF026S                             % Moisture      : NA
Calib. Ref.  : REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	219	333.3	65.6	40-130
2-FLUOROBIPHENYL	202	333.3	60.6	45-130
TERPHENYL-D14	275	333.3	82.4	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF026SB SVF026SL SVF026SC  
LAB FILE ID: RFL173 RFL174 RFL175  
DATE EXTRACTED: 06/13/1215:00 06/13/1215:00 06/13/1215:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/13/1217:28 06/13/1217:54 06/13/1218:13 DATE RECEIVED: 06/13/12  
PREP. BATCH: SVF026S SVF026S SVF026S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	220	66	333	214	64	3	10-130	50
Acenaphthylene	ND	333	221	66	333	219	66	1	20-130	50
Anthracene	ND	333	243	73	333	230	69	5	20-130	50
Benzo (a) anthracene	ND	333	267	80	333	250	75	7	30-130	50
Benzo (a) pyrene	ND	333	277	83	333	256	77	8	30-130	50
Benzo (b) fluoranthene	ND	333	291	87	333	292	88	0	40-130	50
Benzo (k) fluoranthene	ND	333	313	94	333	272	81	14	30-140	50
Benzo (g, h, i) perylene	ND	333	261	78	333	241	72	8	30-140	50
Chrysene	ND	333	278	84	333	258	77	8	30-140	50
Dibenzo (a, h) anthracene	ND	333	281	84	333	261	78	7	40-140	50
Fluoranthene	ND	333	289	87	333	269	81	7	30-130	50
Fluorene	ND	333	226	68	333	221	66	2	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	281	84	333	252	76	11	20-160	50
Naphthalene	ND	333	203	61	333	196	59	3	10-130	50
Phenanthrene	ND	333	255	77	333	242	73	5	20-130	50
2-Methylnaphthalene	ND	333	216	65	333	212	64	2	30-150	50
1-Methylnaphthalene	ND	333	240	72	333	224	67	7	30-150	50
N-Nitrosodimethylamine	ND	333	277	83	333	263	79	5	30-150	50
Pyrene	ND	333	291	87	333	267	80	8	20-150	50
Azobenzene	ND	333	222	67	333	213	64	5	30-150	50
Benzo (e) pyrene	ND	333	287	86	333	255	76	12	30-150	50
Biphenyl	ND	333	206	62	333	193	58	6	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	212	64	333	201	60	40-130
2-Fluorobiphenyl	333	204	61	333	195	58	45-130
Terphenyl-d14	333	294	88	333	271	81	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F037                           Date Extracted: 06/18/12 15:00
Sample ID    : MBLK2S                           Date Analyzed: 06/19/12 19:40
Lab Samp ID  : SVF036SB                         Dilution Factor: 1
Lab File ID  : RFL274                           Matrix          : SOIL
Ext Btch ID  : SVF036S                          % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	242	333.3	72.5	40-130
2-FLUOROBIPHENYL	202	333.3	60.5	45-130
TERPHENYL-D14	266	333.3	79.8	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2S  
LAB SAMP ID: SVF036SB SVF036SL SVF036SC  
LAB FILE ID: RFL274 RFL275 RFL276  
DATE EXTRACTED: 06/18/1215:00 06/18/1215:00 06/18/1215:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/19/1219:40 06/19/1220:06 06/19/1220:32 DATE RECEIVED: 06/18/12  
PREP. BATCH: SVF036S SVF036S SVF036S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	271	81	333	256	77	5	10-130	50
Acenaphthylene	ND	333	276	83	333	272	81	2	20-130	50
Anthracene	ND	333	275	83	333	262	78	5	20-130	50
Benzo (a) anthracene	ND	333	265	80	333	285	86	7	30-130	50
Benzo (a) pyrene	ND	333	315	95	333	323	97	3	30-130	50
Benzo (b) fluoranthene	ND	333	331	99	333	350	105	5	40-130	50
Benzo (k) fluoranthene	ND	333	345	103	333	349	105	1	30-140	50
Benzo (g, h, i) perylene	ND	333	318	96	333	339	102	6	30-140	50
Chrysene	ND	333	272	82	333	294	88	8	30-140	50
Dibenzo (a, h) anthracene	ND	333	341	102	333	362	108	6	40-140	50
Fluoranthene	ND	333	328	99	333	339	102	3	30-130	50
Fluorene	ND	333	257	77	333	243	73	5	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	332	100	333	360	108	8	20-160	50
Naphthalene	ND	333	298	89	333	276	83	8	10-130	50
Phenanthrene	ND	333	292	87	333	282	85	3	20-130	50
2-Methylnaphthalene	ND	333	264	79	333	251	75	5	30-150	50
1-Methylnaphthalene	ND	333	277	83	333	263	79	5	30-150	50
N-Nitrosodimethylamine	ND	333	406	122	333	354	106	14	30-150	50
Pyrene	ND	333	323	97	333	333	100	3	20-150	50
Azobenzene	ND	333	232	70	333	225	67	3	30-150	50
Benzo (e) pyrene	ND	333	304	91	333	320	96	5	30-150	50
Biphenyl	ND	333	232	70	333	233	70	0	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	269	81	333	256	77	40-130
2-Fluorobiphenyl	333	226	68	333	216	65	45-130
Terphenyl-d14	333	257	77	333	275	83	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 9.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-543-SA5C-SB-0.0-0.5  
LAB SAMP ID: F037-07 F037-07M F037-07S  
LAB FILE ID: RFL178 RFL176 RFL177  
DATE EXTRACTED: 06/13/1215:00 06/13/1215:00 06/13/1215:00 DATE COLLECTED: 06/05/12  
DATE ANALYZED: 06/13/1219:31 06/13/1218:39 06/13/1219:05 DATE RECEIVED: 06/05/12  
PREP. BATCH: SVF026S SVF026S SVF026S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	369	166	45	369	150	41	10	10-130	50
Acenaphthylene	ND	369	165	45	369	150	41	10	20-130	50
Anthracene	ND	369	216	58	369	236	64	9	20-130	50
Benzo (a) anthracene	ND	369	260	70	369	297	81	14	30-130	50
Benzo (a) pyrene	ND	369	248	67	369	282	77	13	30-130	50
Benzo (b) fluoranthene	ND	369	294	80	369	331	90	12	30-130	50
Benzo (k) fluoranthene	ND	369	265	72	369	301	82	13	30-130	50
Benzo (g, h, i) perylene	ND	369	237	64	369	264	72	11	30-140	50
Chrysene	ND	369	270	73	369	305	83	12	20-130	50
Dibenzo (a, h) anthracene	ND	369	254	69	369	287	78	12	30-130	50
Fluoranthene	ND	369	276	75	369	317	86	14	30-150	50
Fluorene	ND	369	187	51	369	188	51	1	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	369	247	67	369	277	75	11	20-160	50
Naphthalene	ND	369	146	39	369	132	36	10	10-130	50
Phenanthrene	ND	369	228	62	369	253	68	10	20-130	50
2-Methylnaphthalene	ND	369	150	41	369	142	38	5	30-150	50
1-Methylnaphthalene	ND	369	160	43	369	149	40	7	30-150	50
N-Nitrosodimethylamine	ND	369	185	50	369	187	51	1	20-150	50
Pyrene	ND	369	275	74	369	314	85	13	10-160	50
Azobenzene	ND	369	180	49	369	175	47	3	30-150	50
Benzo (e) pyrene	ND	369	245	66	369	282	76	14	30-150	50
Biphenyl	ND	369	138	37	369	129	35	7	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	369	141	38*	369	131	36*	40-130
2-Fluorobiphenyl	369	140	38*	369	123	33*	45-130
Terphenyl-d14	369	274	74	369	305	83	45-135

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/05/12
Project    : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.  : 12F037                             Date Extracted: 06/07/12 17:36
Sample ID  : FB-060512                          Date Analyzed: 06/07/12 17:36
Lab Samp ID: F037-01                             Dilution Factor: 1
Lab File ID: EF06038A                           Matrix          : WATER
Ext Btch ID: VG39F04                             % Moisture     : NA
Calib. Ref.: EF06036A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	49J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	32.7	40.00	81.7 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/07/12 18:19
Sample ID    : TB-060512                        Date Analyzed: 06/07/12 18:19
Lab Samp ID  : F037-24                          Dilution Factor: 1
Lab File ID  : EF06039A                         Matrix          : WATER
Ext Btch ID  : VG39F04                           % Moisture     : NA
Calib. Ref.  : EF06036A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	41J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	35.1	40.00	87.7 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.  : 12F037                             Date Extracted: 06/07/12 12:34
Sample ID  : MBLK1W                             Date Analyzed: 06/07/12 12:34
Lab Samp ID: VG39F04B                           Dilution Factor: 1
Lab File ID: EF06031A                           Matrix          : WATER
Ext Btch ID: VG39F04                             % Moisture     : NA
Calib. Ref.: EF06024A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	34.5	40.00	86.2 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F04B VG39F04L VG39F04C  
LAB FILE ID: EF06031A EF06032A EF06033A  
DATE EXTRACTED: 06/07/1212:34 06/07/1213:17 06/07/1214:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1212:34 06/07/1213:17 06/07/1214:00 DATE RECEIVED: 06/07/12  
PREP. BATCH: VG39F04 VG39F04 VG39F04  
CALIB. REF: EF06024A EF06024A EF06024A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	428	86	500	405	81	5	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	43.3	108	40.0	43.1	108	60-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/09/12 08:01
Sample ID:   SL-545-SA5C-SB-5.0                 Date Analyzed: 06/09/12 08:01
Lab Samp ID: F037-04                             Dilution Factor: 0.87
Lab File ID: EF08018A                            Matrix          : SOIL
Ext Btch ID: GMF003S                             % Moisture     : 12.2
Calib. Ref.: EF08013A                            Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.99	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.83	1.982	92.6 70-140

RL : Reporting Limit

Methanol Extraction Date : 06/07/12 10:53

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/09/12 08:44
Sample ID:   SL-545-SA5C-SB-10.0               Date Analyzed: 06/09/12 08:44
Lab Samp ID: F037-06                           Dilution Factor: 0.87
Lab File ID: EF08019A                          Matrix          : SOIL
Ext Btch ID: GMF003S                            % Moisture     : 12.9
Calib. Ref.: EF08013A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.88	1.998	94.1	70-140

RL : Reporting Limit

Methanol Extraction Date : 06/07/12 10:53

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/09/12 09:27
Sample ID:   SL-543-SA5C-SB-4.5                  Date Analyzed: 06/09/12 09:27
Lab Samp ID: F037-09                             Dilution Factor: 0.97
Lab File ID: EF08020A                            Matrix          : SOIL
Ext Btch ID: GMF003S                              % Moisture     : 6.9
Calib. Ref.: EF08013A                            Instrument ID  : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.06	2.084	98.9 70-140

RL : Reporting Limit

Methanol Extraction Date : 06/07/12 10:53

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.   : 12F037                           Date Extracted: 06/09/12 10:10
Sample ID:  SL-561-SA5C-SB-6.5                 Date Analyzed: 06/09/12 10:10
Lab Samp ID: F037-13                           Dilution Factor: 1
Lab File ID: EF08021A                           Matrix          : SOIL
Ext Btch ID: GMF003S                            % Moisture     : 5.0
Calib. Ref.: EF08013A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.53
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.95	2.105	92.5 70-140

RL : Reporting Limit

Methanol Extraction Date : 06/07/12 10:53

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/09/12 10:53
Sample ID:   SL-615-SA5C-SB-5.0                 Date Analyzed: 06/09/12 10:53
Lab Samp ID: F037-15                             Dilution Factor: 0.94
Lab File ID: EF08022A                           Matrix          : SOIL
Ext Btch ID: GMF003S                             % Moisture     : 13.8
Calib. Ref.: EF08013A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.55
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.98	2.181	91.0 70-140

RL : Reporting Limit

Methanol Extraction Date : 06/07/12 10:53

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/09/12 11:36
Sample ID:   SL-615-SA5C-SB-10.0                Date Analyzed: 06/09/12 11:36
Lab Samp ID: F037-17                             Dilution Factor: 0.9
Lab File ID: EF08023A                            Matrix          : SOIL
Ext Btch ID: GMF003S                             % Moisture     : 8.0
Calib. Ref.: EF08013A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.98	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.82	1.957	93.0 70-140

RL : Reporting Limit

Methanol Extraction Date : 06/07/12 10:53

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/09/12 13:02
Sample ID:   SL-539-SA5C-SB-7.0                  Date Analyzed: 06/09/12 13:02
Lab Samp ID: F037-20                             Dilution Factor: 0.96
Lab File ID: EF08025A                            Matrix          : SOIL
Ext Btch ID: GMF003S                             % Moisture     : 13.7
Calib. Ref.: EF08024A                            Instrument ID   : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.56
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.98	2.225	89.2 70-140

RL : Reporting Limit

Methanol Extraction Date : 06/07/12 10:53

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/09/12 13:45
Sample ID:   SL-551-SA5C-SB-5.0                 Date Analyzed: 06/09/12 13:45
Lab Samp ID: F037-23                             Dilution Factor: 1.02
Lab File ID: EF08026A                           Matrix          : SOIL
Ext Btch ID: GMF003S                             % Moisture     : 10.0
Calib. Ref.: EF08024A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.57
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.91	2.267	84.3 70-140

RL : Reporting Limit

Methanol Extraction Date : 06/07/12 10:53

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/09/12
Batch No.   : 12F037                           Date Extracted: 06/09/12 06:34
Sample ID   : MBLK1S                           Date Analyzed: 06/09/12 06:34
Lab Samp ID : GMF003SB                         Dilution Factor: 1
Lab File ID : EF08016A                        Matrix          : SOIL
Ext Btch ID : GMF003S                          % Moisture     : NA
Calib. Ref. : EF08013A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	2.05	2.000	102	60-130

RL : Reporting Limit

Methanol Extraction Date : 06/07/12 10:53

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF003SB GMF003SL GMF003SC  
LAB FILE ID: EF08016A EF08014A EF08015A  
DATE EXTRACTED: 06/09/1206:34 06/09/1205:08 06/09/1205:51 DATE COLLECTED: NA  
DATE ANALYZED: 06/09/1206:34 06/09/1205:08 06/09/1205:51 DATE RECEIVED: 06/09/12  
PREP. BATCH: GMF003S GMF003S GMF003S  
CALIB. REF: EF08013A EF08013A EF08013A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	22.3	89	25.0	21.8	87	2	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.24	112	2.00	2.22	111	60-130

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/08/12 17:25
Sample ID    : FB-060512                        Date Analyzed: 06/08/12 17:25
Lab Samp ID  : F037-01                          Dilution Factor: 1
Lab File ID  : BF08025A                         Matrix          : WATER
Ext Btch ID  : MEF002W                           % Moisture     : NA
Calib. Ref.  : BF08021A                         Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/08/12
Batch No.   : 12F037                           Date Extracted: 06/08/12 16:21
Sample ID   : MBLK1W                           Date Analyzed: 06/08/12 16:21
Lab Samp ID: MEF002WB                         Dilution Factor: 1
Lab File ID: BF08022A                        Matrix          : WATER
Ext Btch ID: MEF002W                          % Moisture     : NA
Calib. Ref.: BF08021A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 8015B

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: MEF002WB MEF002WL MEF002WY  
LAB FILE ID: BF08022A BF08023A BF08026A  
DATE EXTRACTED: 06/08/1216:21 06/08/1216:42 06/08/1218:03 DATE COLLECTED: NA  
DATE ANALYZED: 06/08/1216:21 06/08/1216:42 06/08/1218:03 DATE RECEIVED: 06/08/12  
PREP. BATCH: MEF002W MEF002W MEF002W  
CALIB. REF: BF08021A BF08021A BF08021A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	11400	114	10000	11100	111	3	50-150	30
Isopropanol	ND	10000	12200	122	10000	11500	115	7	50-150	30
Methanol	ND	10000	10500	105	10000	11800	118	12	50-150	30

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 11:30
Sample ID:   SL-545-SA5C-SB-0.0-0.5            Date Analyzed: 06/08/12 11:45
Lab Samp ID: F037-02                            Dilution Factor: 1
Lab File ID: BF08008A                          Matrix          : SOIL
Ext Btch ID: MEF004S                            % Moisture     : 12.2
Calib. Ref.: BF08004A                          Instrument ID  : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	570	280
ISOPROPANOL	ND	570	280
METHANOL	ND	570	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 06/04/12
Project     : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.   : 12F037                             Date Extracted: 06/06/12 11:30
Sample ID   : SL-545-SA5C-SB-4.0-5.0           Date Analyzed: 06/08/12 12:05
Lab Samp ID : F037-03                           Dilution Factor: 1
Lab File ID : BF08009A                          Matrix          : SOIL
Ext Btch ID : MEF004S                            % Moisture     : 12.7
Calib. Ref. : BF08004A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	570	290
ISOPROPANOL	ND	570	290
METHANOL	ND	570	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 06/04/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.   : 12F037                           Date Extracted: 06/06/12 11:30
Sample ID:  SL-545-SA5C-SB-9.0-10.0           Date Analyzed: 06/08/12 12:37
Lab Samp ID: F037-05                           Dilution Factor: 1
Lab File ID: BF08011A                          Matrix          : SOIL
Ext Btch ID: MEF004S                            % Moisture     : 12.2
Calib. Ref.: BF08010A                          Instrument ID  : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	570	280
ISOPROPANOL	ND	570	280
METHANOL	ND	570	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 11:30
Sample ID:   SL-543-SA5C-SB-0.0-0.5            Date Analyzed: 06/08/12 13:04
Lab Samp ID: F037-07                            Dilution Factor: 1
Lab File ID: BF08012A                          Matrix          : SOIL
Ext Btch ID: MEF004S                            % Moisture      : 9.7
Calib. Ref.: BF08010A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	550	280
ISOPROPANOL	ND	550	280
METHANOL	ND	550	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 11:30
Sample ID:   SL-543-SA5C-SB-3.5-4.5           Date Analyzed: 06/08/12 13:22
Lab Samp ID: F037-08                           Dilution Factor: 1
Lab File ID: BF08013A                          Matrix          : SOIL
Ext Btch ID: MEF004S                            % Moisture     : 6.3
Calib. Ref.: BF08010A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	530	270
ISOPROPANOL	ND	530	270
METHANOL	ND	530	270

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 11:30
Sample ID    : SL-552-SA5C-SB-0.0-0.5          Date Analyzed: 06/08/12 13:39
Lab Samp ID  : F037-10                          Dilution Factor: 1
Lab File ID  : BF08014A                         Matrix          : SOIL
Ext Btch ID  : MEF004S                          % Moisture     : 5.8
Calib. Ref.  : BF08010A                         Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	530	270
ISOPROPANOL	ND	530	270
METHANOL	ND	530	270

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.   : 12F037                           Date Extracted: 06/06/12 11:30
Sample ID   : SL-561-SA5C-SB-0.0-0.5          Date Analyzed: 06/08/12 14:05
Lab Samp ID: F037-11                           Dilution Factor: 1
Lab File ID: BF08015A                          Matrix          : SOIL
Ext Btch ID: MEF004S                            % Moisture     : 11.8
Calib. Ref.: BF08010A                          Instrument ID  : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	570	280
ISOPROPANOL	ND	570	280
METHANOL	ND	570	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 11:30
Sample ID:   SL-561-SA5C-SB-5.5-6.5            Date Analyzed: 06/08/12 14:21
Lab Samp ID: F037-12                           Dilution Factor: 1
Lab File ID: BF08016A                          Matrix          : SOIL
Ext Btch ID: MEF004S                            % Moisture     : 5.6
Calib. Ref.: BF08010A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	530	260
ISOPROPANOL	ND	530	260
METHANOL	ND	530	260

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.   : 12F037                           Date Extracted: 06/06/12 11:30
Sample ID   : SL-539-SA5C-SB-0.0-0.5          Date Analyzed: 06/08/12 14:37
Lab Samp ID: F037-18                           Dilution Factor: 1
Lab File ID: BF08017A                          Matrix          : SOIL
Ext Btch ID: MEF004S                           % Moisture     : 11.7
Calib. Ref.: BF08010A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	570	280
ISOPROPANOL	ND	570	280
METHANOL	ND	570	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.   : 12F037                           Date Extracted: 06/06/12 11:30
Sample ID:  SL-539-SA5C-SB-6.0-7.0           Date Analyzed: 06/08/12 15:00
Lab Samp ID: F037-19                           Dilution Factor: 1
Lab File ID: BF08018A                          Matrix          : SOIL
Ext Btch ID: MEF004S                            % Moisture     : 9.5
Calib. Ref.: BF08010A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	550	280
ISOPROPANOL	ND	550	280
METHANOL	ND	550	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 11:30
Sample ID    : SL-551-SA5C-SB-0.0-0.5          Date Analyzed: 06/08/12 15:25
Lab Samp ID  : F037-21                           Dilution Factor: 1
Lab File ID  : BF08019A                         Matrix          : SOIL
Ext Btch ID  : MEF004S                           % Moisture     : 13.8
Calib. Ref.  : BF08010A                         Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 11:30
Sample ID:   SL-551-SA5C-SB-4.0-5.0           Date Analyzed: 06/08/12 15:42
Lab Samp ID: F037-22                           Dilution Factor: 1
Lab File ID: BF08020A                          Matrix          : SOIL
Ext Btch ID: MEF004S                            % Moisture     : 10.6
Calib. Ref.: BF08010A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	560	280
ISOPROPANOL	ND	560	280
METHANOL	ND	560	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/06/12
Batch No.  : 12F037                             Date Extracted: 06/06/12 11:30
Sample ID  : MBLK1S                             Date Analyzed: 06/08/12 10:54
Lab Samp ID: MEF004SB                           Dilution Factor: 1
Lab File ID: BF08005A                           Matrix          : SOIL
Ext Btch ID: MEF004S                             % Moisture     : NA
Calib. Ref.: BF08004A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEF004SB MEF004SL MEF004SC  
LAB FILE ID: BF08005A BF08006A BF08007A  
DATE EXTRACTED: 06/06/1211:30 06/06/1211:30 06/06/1211:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/08/1210:54 06/08/1211:09 06/08/1211:25 DATE RECEIVED: 06/06/12  
PREP. BATCH: MEF004S MEF004S MEF004S  
CALIB. REF: BF08004A BF08004A BF08004A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	9490	95	10000	9570	96	1	50-150	50
Isopropanol	ND	10000	9630	96	10000	9640	96	0	50-150	50
Methanol	ND	10000	10500	105	10000	9600	96	8	50-150	50

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.   : 12F037                           Date Extracted: 06/08/12 15:23
Sample ID   : FB-060512                       Date Analyzed: 06/08/12 15:23
Lab Samp ID: F037-01                          Dilution Factor: 1
Lab File ID: TF08018A                        Matrix          : WATER
Ext Btch ID: PEF002W                         % Moisture     : NA
Calib. Ref.: TF08014A                       Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/08/12
Batch No.   : 12F037                           Date Extracted: 06/08/12 15:09
Sample ID   : MBLK1W                           Date Analyzed: 06/08/12 15:09
Lab Samp ID: PEF002WB                         Dilution Factor: 1
Lab File ID: TF08017A                        Matrix          : WATER
Ext Btch ID: PEF002W                          % Moisture     : NA
Calib. Ref.: TF08014A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 8015M

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PEF002WB PEF002WL PEF002WC  
LAB FILE ID: TF08017A TF08015A TF08016A  
DATE EXTRACTED: 06/08/1215:09 06/08/1214:19 06/08/1214:43 DATE COLLECTED: NA  
DATE ANALYZED: 06/08/1215:09 06/08/1214:19 06/08/1214:43 DATE RECEIVED: 06/08/12  
PREP. BATCH: PEF002W PEF002W PEF002W  
CALIB. REF: TF08014A TF08014A TF08014A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	46.5	93	50.0	47.9	96	3	50-150	30
Ethylene Glycol	ND	50.0	42.5	85	50.0	40.7	81	4	50-150	30
Propylene Glycol	ND	25.0	23.5	94	25.0	23.0	92	2	50-150	30

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 11:15
Sample ID:   SL-545-SA5C-SB-0.0-0.5           Date Analyzed: 06/07/12 13:41
Lab Samp ID: F037-02                           Dilution Factor: 1
Lab File ID: TF07010A                          Matrix          : SOIL
Ext Btch ID: PEF004S                            % Moisture     : 12.2
Calib. Ref.: TF07006A                          Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.5
ETHYLENE GLYCOL	ND	11	5.7
PROPYLENE GLYCOL	ND	11	5.7

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 11:15
Sample ID:   SL-545-SA5C-SB-4.0-5.0            Date Analyzed: 06/07/12 14:01
Lab Samp ID: F037-03                            Dilution Factor: 1
Lab File ID: TF07011A                          Matrix          : SOIL
Ext Btch ID: PEF004S                            % Moisture     : 12.7
Calib. Ref.: TF07006A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.6
ETHYLENE GLYCOL	ND	11	5.7
PROPYLENE GLYCOL	ND	11	5.7

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/06/12 11:15
Sample ID:   SL-545-SA5C-SB-9.0-10.0             Date Analyzed: 06/07/12 14:14
Lab Samp ID: F037-05                             Dilution Factor: 1
Lab File ID: TF07012A                            Matrix          : SOIL
Ext Btch ID: PEF004S                             % Moisture     : 12.2
Calib. Ref.: TF07006A                            Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.5
ETHYLENE GLYCOL	ND	11	5.7
PROPYLENE GLYCOL	ND	11	5.7

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 11:15
Sample ID:   SL-543-SA5C-SB-0.0-0.5           Date Analyzed: 06/07/12 14:29
Lab Samp ID: F037-07                           Dilution Factor: 1
Lab File ID: TF07013A                         Matrix          : SOIL
Ext Btch ID: PEF004S                          % Moisture     : 9.7
Calib. Ref.: TF07006A                         Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.3
ETHYLENE GLYCOL	ND	11	5.5
PROPYLENE GLYCOL	ND	11	5.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.   : 12F037                           Date Extracted: 06/06/12 11:15
Sample ID:  SL-543-SA5C-SB-3.5-4.5           Date Analyzed: 06/07/12 14:41
Lab Samp ID: F037-08                          Dilution Factor: 1
Lab File ID: TF07014A                         Matrix          : SOIL
Ext Btch ID: PEF004S                          % Moisture     : 6.3
Calib. Ref.: TF07006A                         Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	8.0
ETHYLENE GLYCOL	ND	11	5.3
PROPYLENE GLYCOL	ND	11	5.3

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.   : 12F037                           Date Extracted: 06/06/12 11:15
Sample ID   : SL-552-SA5C-SB-0.0-0.5          Date Analyzed: 06/07/12 15:01
Lab Samp ID: F037-10                           Dilution Factor: 1
Lab File ID: TF07015A                          Matrix          : SOIL
Ext Btch ID: PEF004S                            % Moisture     : 5.8
Calib. Ref.: TF07006A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	8.0
ETHYLENE GLYCOL	ND	11	5.3
PROPYLENE GLYCOL	ND	11	5.3

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 11:15
Sample ID:   SL-561-SA5C-SB-0.0-0.5            Date Analyzed: 06/07/12 15:16
Lab Samp ID: F037-11                            Dilution Factor: 1
Lab File ID: TF07016A                           Matrix          : SOIL
Ext Btch ID: PEF004S                             % Moisture     : 11.8
Calib. Ref.: TF07006A                           Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.5
ETHYLENE GLYCOL	ND	11	5.7
PROPYLENE GLYCOL	ND	11	5.7

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/06/12 11:15
Sample ID:   SL-561-SA5C-SB-5.5-6.5              Date Analyzed: 06/07/12 15:30
Lab Samp ID: F037-12                             Dilution Factor: 1
Lab File ID: TF07017A                           Matrix          : SOIL
Ext Btch ID: PEF004S                             % Moisture     : 5.6
Calib. Ref.: TF07006A                           Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	7.9
ETHYLENE GLYCOL	ND	11	5.3
PROPYLENE GLYCOL	ND	11	5.3

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.   : 12F037                           Date Extracted: 06/06/12 11:15
Sample ID   : SL-539-SA5C-SB-0.0-0.5          Date Analyzed: 06/07/12 16:56
Lab Samp ID: F037-18                           Dilution Factor: 1
Lab File ID: TF07020A                          Matrix          : SOIL
Ext Btch ID: PEF004S                            % Moisture     : 11.7
Calib. Ref.: TF07019A                          Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.5
ETHYLENE GLYCOL	ND	11	5.7
PROPYLENE GLYCOL	ND	11	5.7

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/06/12 11:15
Sample ID:   SL-539-SA5C-SB-6.0-7.0           Date Analyzed: 06/07/12 17:07
Lab Samp ID: F037-19                           Dilution Factor: 1
Lab File ID: TF07021A                          Matrix          : SOIL
Ext Btch ID: PEF004S                            % Moisture     : 9.5
Calib. Ref.: TF07019A                          Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.3
ETHYLENE GLYCOL	ND	11	5.5
PROPYLENE GLYCOL	ND	11	5.5

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/06/12 11:15
Sample ID:   SL-551-SA5C-SB-0.0-0.5              Date Analyzed: 06/07/12 17:24
Lab Samp ID: F037-21                             Dilution Factor: 1
Lab File ID: TF07022A                            Matrix          : SOIL
Ext Btch ID: PEF004S                              % Moisture     : 13.8
Calib. Ref.: TF07019A                            Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.7
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.   : 12F037                           Date Extracted: 06/06/12 11:15
Sample ID   : SL-551-SA5C-SB-4.0-5.0          Date Analyzed: 06/07/12 17:49
Lab Samp ID: F037-22                           Dilution Factor: 1
Lab File ID: TF07023A                          Matrix          : SOIL
Ext Btch ID: PEF004S                            % Moisture     : 10.6
Calib. Ref.: TF07019A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.4
ETHYLENE GLYCOL	ND	11	5.6
PROPYLENE GLYCOL	ND	11	5.6

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                       Date Received: 06/06/12
Batch No.   : 12F037                             Date Extracted: 06/06/12 11:15
Sample ID   : MBLK1S                             Date Analyzed: 06/07/12 13:20
Lab Samp ID: PEF004SB                           Dilution Factor: 1
Lab File ID: TF07009A                           Matrix          : SOIL
Ext Btch ID: PEF004S                             % Moisture     : NA
Calib. Ref.: TF07006A                           Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEF004SB PEF004SL PEF004SC  
LAB FILE ID: TF07009A TF07007A TF07008A  
DATE EXTRACTED: 06/06/1211:15 06/06/1211:15 06/06/1211:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/07/1213:20 06/07/1212:23 06/07/1212:53 DATE RECEIVED: 06/06/12  
PREP. BATCH: PEF004S PEF004S PEF004S  
CALIB. REF: TF07006A TF07006A TF07006A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	51.5	103	50.0	54.3	109	5	50-150	50
Ethylene Glycol	ND	50.0	44.5	89	50.0	47.8	96	7	50-150	50
Propylene Glycol	ND	25.0	24.5	98	25.0	24.5	98	0	50-150	50

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/11/12 10:45
Sample ID:   FB-060512                           Date Analyzed: 06/12/12 18:56
Lab Samp ID: F037-01                             Dilution Factor: 1.06
Lab File ID: LF12012A                           Matrix          : WATER
Ext Btch ID: DSF014W                             % Moisture      : NA
Calib. Ref.: LF12003A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.11	0.053
EFH(C12-C14)	ND	0.11	0.053
EFH(C15-C20)	ND	0.11	0.053
EFH(C21-C30)	ND	0.11	0.053
EFH(C30-C40)	ND	0.11	0.053
TOTAL EFH(C8-C40)	ND	0.11	0.053

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.787	1.060	74.2	40-130
HEXACOSANE	0.201	0.2650	75.7	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 10:45
Sample ID    : MBLK1W                           Date Analyzed: 06/12/12 17:31
Lab Samp ID  : DSF014WB                         Dilution Factor: 1
Lab File ID  : LF12007A                        Matrix          : WATER
Ext Btch ID  : DSF014W                         % Moisture      : NA
Calib. Ref.  : LF12003A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.825	1.000	82.5	40-130
HEXACOSANE	0.208	0.2500	83.0	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSF014WB DSF014WL DSF014WC  
LAB FILE ID: LF12007A LF12008A LF12009A  
DATE EXTRACTED: 06/11/1210:45 06/11/1210:45 06/11/1210:45 DATE COLLECTED: NA  
DATE ANALYZED: 06/12/1217:31 06/12/1217:48 06/12/1218:05 DATE RECEIVED: 06/11/12  
PREP. BATCH: DSF014W DSF014W DSF014W  
CALIB. REF: LF12003A LF12003A LF12003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.47	89	5.00	4.39	88	2	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.823	82	1.00	0.845	85	40-130
Hexacosane	0.250	0.206	83	0.250	0.214	86	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/11/12 11:21
Sample ID:   SL-545-SA5C-SB-0.0-0.5              Date Analyzed: 06/12/12 08:36
Lab Samp ID: F037-02                              Dilution Factor: 1
Lab File ID: LF11084A                             Matrix          : SOIL
Ext Btch ID: DSF013S                               % Moisture     : 12.2
Calib. Ref.: LF11075A                             Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	8.5	5.7	2.8
EFH(C30-C40)	12	11	5.7
TOTAL EFH(C8-C40)	21	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	70.1	113.9	61.6	50-150
HEXACOSANE	22.2	28.47	78.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 11:21
Sample ID:   SL-545-SA5C-SB-4.0-5.0           Date Analyzed: 06/12/12 08:03
Lab Samp ID: F037-03                           Dilution Factor: 1
Lab File ID: LF11082A                          Matrix          : SOIL
Ext Btch ID: DSF013S                           % Moisture     : 12.7
Calib. Ref.: LF11075A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	3.4J	5.7	2.9
EFH(C30-C40)	6.6J	11	5.7
TOTAL EFH(C8-C40)	10	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	70.6	114.5	61.6	50-150
HEXACOSANE	22.0	28.64	76.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 11:21
Sample ID:   SL-545-SA5C-SB-9.0-10.0           Date Analyzed: 06/12/12 06:55
Lab Samp ID: F037-05                            Dilution Factor: 1
Lab File ID: LF11078A                          Matrix          : SOIL
Ext Btch ID: DSF013S                           % Moisture     : 12.2
Calib. Ref.: LF11075A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	63.1	113.9	55.4	50-150
HEXACOSANE	20.2	28.47	71.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 11:21
Sample ID:   SL-543-SA5C-SB-0.0-0.5           Date Analyzed: 06/12/12 07:12
Lab Samp ID: F037-07                           Dilution Factor: 1
Lab File ID: LF11079A                          Matrix          : SOIL
Ext Btch ID: DSF013S                           % Moisture     : 9.7
Calib. Ref.: LF11075A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	61.4	110.7	55.5	50-150
HEXACOSANE	19.1	27.69	69.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 11:21
Sample ID:   SL-543-SA5C-SB-3.5-4.5           Date Analyzed: 06/12/12 07:29
Lab Samp ID: F037-08                           Dilution Factor: 1
Lab File ID: LF11080A                          Matrix          : SOIL
Ext Btch ID: DSF013S                            % Moisture      : 6.3
Calib. Ref.: LF11075A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	ND	5.3	2.7
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	68.1	106.7	63.8	50-150
HEXACOSANE	19.1	26.68	71.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 11:21
Sample ID    : SL-552-SA5C-SB-0.0-0.5          Date Analyzed: 06/12/12 09:10
Lab Samp ID  : F037-10T                         Dilution Factor: 10
Lab File ID  : LF11086A                        Matrix          : SOIL
Ext Btch ID  : DSF013S                          % Moisture     : 5.8
Calib. Ref.  : LF11075A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	53	27
EFH(C12-C14)	ND	53	27
EFH(C15-C20)	ND	53	27
EFH(C21-C30)	190	53	27
EFH(C30-C40)	600	110	53
TOTAL EFH(C8-C40)	790	53	27

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	67.1	106.2	63.2	50-150
HEXACOSANE	27.0	26.54	102	50-150

RL : Reporting Limit  
 DO : Diluted Out

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 11:21
Sample ID:   SL-561-SA5C-SB-0.0-0.5            Date Analyzed: 06/12/12 08:20
Lab Samp ID: F037-11                            Dilution Factor: 1
Lab File ID: LF11083A                          Matrix          : SOIL
Ext Btch ID: DSF013S                            % Moisture     : 11.8
Calib. Ref.: LF11075A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	3.2J	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	3.2J	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.5	113.4	63.9	50-150
HEXACOSANE	21.0	28.34	74.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/11/12 11:21
Sample ID:   SL-561-SA5C-SB-5.5-6.5              Date Analyzed: 06/12/12 08:53
Lab Samp ID: F037-12                              Dilution Factor: 1
Lab File ID: LF11085A                             Matrix          : SOIL
Ext Btch ID: DSF013S                              % Moisture     : 5.6
Calib. Ref.: LF11075A                             Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.6
EFH(C12-C14)	ND	5.3	2.6
EFH(C15-C20)	ND	5.3	2.6
EFH(C21-C30)	19	5.3	2.6
EFH(C30-C40)	41	11	5.3
TOTAL EFH(C8-C40)	60	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.5	105.9	65.6	50-150
HEXACOSANE	21.0	26.48	79.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/13/12 11:57
Sample ID:   SL-615-SA5C-SB-4.0-5.0           Date Analyzed: 06/13/12 17:23
Lab Samp ID: F037-14R                           Dilution Factor: 1
Lab File ID: LF13008A                           Matrix          : SOIL
Ext Btch ID: DSF016S                             % Moisture     : 13.4
Calib. Ref.: LF13003A                           Instrument ID  : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.2	115.5	67.8	50-150
HEXACOSANE	20.7	28.87	71.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 11:21
Sample ID:   SL-615-SA5C-SB-9.0-10.0           Date Analyzed: 06/12/12 10:01
Lab Samp ID: F037-16                             Dilution Factor: 1
Lab File ID: LF11089A                           Matrix          : SOIL
Ext Btch ID: DSF013S                             % Moisture     : 9.2
Calib. Ref.: LF11087A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	65.3	110.1	59.3	50-150
HEXACOSANE	21.1	27.53	76.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 11:21
Sample ID:   SL-539-SA5C-SB-0.0-0.5           Date Analyzed: 06/12/12 10:18
Lab Samp ID: F037-18                           Dilution Factor: 1
Lab File ID: LF11090A                          Matrix          : SOIL
Ext Btch ID: DSF013S                           % Moisture     : 11.7
Calib. Ref.: LF11087A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	70.8	113.3	62.5	50-150
HEXACOSANE	20.1	28.31	71.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/11/12 11:21
Sample ID:   SL-539-SA5C-SB-6.0-7.0             Date Analyzed: 06/12/12 10:35
Lab Samp ID: F037-19                             Dilution Factor: 1
Lab File ID: LF11091A                            Matrix          : SOIL
Ext Btch ID: DSF013S                              % Moisture     : 9.5
Calib. Ref.: LF11087A                            Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	61.9	110.5	56.0	50-150
HEXACOSANE	20.7	27.62	75.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 11:21
Sample ID:   SL-551-SA5C-SB-0.0-0.5            Date Analyzed: 06/12/12 10:52
Lab Samp ID: F037-21                           Dilution Factor: 1
Lab File ID: LF11092A                          Matrix          : SOIL
Ext Btch ID: DSF013S                            % Moisture     : 13.8
Calib. Ref.: LF11087A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.1	116.0	67.3	50-150
HEXACOSANE	21.6	29.00	74.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/11/12 11:21
Sample ID:   SL-551-SA5C-SB-4.0-5.0              Date Analyzed: 06/12/12 11:09
Lab Samp ID: F037-22                             Dilution Factor: 1
Lab File ID: LF11093A                            Matrix          : SOIL
Ext Btch ID: DSF013S                             % Moisture     : 10.6
Calib. Ref.: LF11087A                            Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.3	111.9	61.9	50-150
HEXACOSANE	20.5	27.96	73.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 11:21
Sample ID    : MBLK1S                            Date Analyzed: 06/11/12 13:39
Lab Samp ID  : DSF013SB                         Dilution Factor: 1
Lab File ID  : LF11017A                        Matrix          : SOIL
Ext Btch ID  : DSF013S                          % Moisture      : NA
Calib. Ref.  : LF11015A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.1	100.0	72.1	50-150
HEXACOSANE	18.8	25.00	75.1	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF013SB DSF013SL DSF013SC  
LAB FILE ID: LF11017A LF11019A LF11020A  
DATE EXTRACTED: 06/11/1211:21 06/11/1211:21 06/11/1211:21 DATE COLLECTED: NA  
DATE ANALYZED: 06/11/1213:39 06/11/1214:13 06/11/1214:30 DATE RECEIVED: 06/11/12  
PREP. BATCH: DSF013S DSF013S DSF013S  
CALIB. REF: LF11015A LF11015A LF11015A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	420	84	500	407	81	3	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	75.9	76	100	74.1	74	50-150
Hexacosane	25.0	19.4	78	25.0	19.0	76	50-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.   : 12F037                           Date Extracted: 06/13/12 11:57
Sample ID   : MBLK2S                            Date Analyzed: 06/13/12 16:32
Lab Samp ID: DSF016SB                           Dilution Factor: 1
Lab File ID: LF13005A                           Matrix          : SOIL
Ext Btch ID: DSF016S                             % Moisture      : NA
Calib. Ref.: LF13003A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	66.1	100.0	66.1	50-150
HEXACOSANE	17.1	25.00	68.6	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2S  
LAB SAMP ID: DSF016SB DSF016SL DSF016SC  
LAB FILE ID: LF13005A LF13006A LF13007A  
DATE EXTRACTED: 06/13/1211:57 06/13/1211:57 06/13/1211:57 DATE COLLECTED: NA  
DATE ANALYZED: 06/13/1216:32 06/13/1216:49 06/13/1217:06 DATE RECEIVED: 06/13/12  
PREP. BATCH: DSF016S DSF016S DSF016S  
CALIB. REF: LF13003A LF13003A LF13003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	433	87	500	394	79	10	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	79.4	79	100	71.7	72	50-150
Hexacosane	25.0	19.8	79	25.0	17.6	70	50-150

METHOD 3520C/8081A  
PESTICIDES

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/07/12 11:30
Sample ID:   FB-060512                          Date Analyzed: 06/15/12 19:04
Lab Samp ID: F037-01                             Dilution Factor: 1
Lab File ID: RF15022A                           Matrix          : WATER
Ext Btch ID: CPF008W                             % Moisture     : NA
Calib. Ref.: RF15015A                           Instrument ID   : F9
=====

```

PARAMETERS	RESULTS		RL	MDL	
	(ug/L)		(ug/L)	(ug/L)	
ALPHA-BHC	(ND)	ND	0.10	0.010	0.010
GAMMA-BHC (LINDANE)	(ND)	ND	0.10	0.010	0.010
BETA-BHC	(ND)	ND	0.10	0.010	0.010
HEPTACHLOR	(ND)	ND	0.10	0.010	0.010
DELTA-BHC	(ND)	ND	0.10	0.010	0.010
ALDRIN	(ND)	ND	0.10	0.010	0.010
HEPTACHLOR EPOXIDE	(ND)	ND	0.10	0.010	0.010
ENDOSULFAN I	(ND)	ND	0.10	0.010	0.010
4,4'-DDE	0.013J	(ND)	0.10	0.010	0.010
DIELDRIN	0.042J	(ND)	0.10	0.010	0.010
ENDRIN	(ND)	ND	0.10	0.010	0.010
4,4'-DDD	(ND)	ND	0.10	0.010	0.010
ENDOSULFAN II	0.010J	(ND)	0.10	0.010	0.010
4,4'-DDT	(ND)	ND	0.10	0.010	0.010
ENDRIN ALDEHYDE	(ND)	ND	0.10	0.010	0.010
ENDOSULFAN SULFATE	(ND)	ND	0.10	0.010	0.010
ENDRIN KETONE	(ND)	ND	0.10	0.010	0.010
METHOXYCHLOR	(ND)	ND	1.0	0.10	0.10
MIREX	(ND)	ND	0.10	0.010	0.010
TOXAPHENE	(ND)	ND	2.0	0.50	0.50
CHLORDANE (TECHNICAL)	(ND)	ND	1.0	0.25	0.25

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(0.3712)   0.3699	0.4000	(92.8)   92.5	60-140
DECACHLOROBIPHENYL	0.3599   (0.3691)	0.4000	90.0   (92.3)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3520C/8081A  
PESTICIDES

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F037                           Date Extracted: 06/07/12 11:30
Sample ID    : MBLK1W                            Date Analyzed: 06/15/12 18:00
Lab Samp ID  : CPF008WB                         Dilution Factor: 1
Lab File ID  : RF15019A                        Matrix          : WATER
Ext Btch ID  : CPF008W                          % Moisture      : NA
Calib. Ref.  : RF15015A                        Instrument ID   : F9
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ALPHA-BHC	(ND)   ND	0.10	0.010   0.010
GAMMA-BHC (LINDANE)	(ND)   ND	0.10	0.010   0.010
BETA-BHC	(ND)   ND	0.10	0.010   0.010
HEPTACHLOR	(ND)   ND	0.10	0.010   0.010
DELTA-BHC	(ND)   ND	0.10	0.010   0.010
ALDRIN	(ND)   ND	0.10	0.010   0.010
HEPTACHLOR EPOXIDE	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN I	(ND)   ND	0.10	0.010   0.010
4,4'-DDE	(ND)   ND	0.10	0.010   0.010
DIELDRIN	(ND)   ND	0.10	0.010   0.010
ENDRIN	(ND)   ND	0.10	0.010   0.010
4,4'-DDD	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN II	(ND)   ND	0.10	0.010   0.010
4,4'-DDT	(ND)   ND	0.10	0.010   0.010
ENDRIN ALDEHYDE	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN SULFATE	(ND)   ND	0.10	0.010   0.010
ENDRIN KETONE	(ND)   ND	0.10	0.010   0.010
METHOXYCHLOR	(ND)   ND	1.0	0.10   0.10
MIREX	(ND)   ND	0.10	0.010   0.010
TOXAPHENE	(ND)   ND	2.0	0.50   0.50
CHLORDANE (TECHNICAL)	(ND)   ND	1.0	0.25   0.25

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	0.3570   (0.3604)	0.4000	89.3   (90.1)	60-140
DECACHLOROBIPHENYL	0.3457   (0.3566)	0.4000	86.4   (89.1)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPF008WB CPF008WL CPF008WC  
LAB FILE ID: RF15019A RF15020A RF15021A  
DATE EXTRACTED: 06/07/1211:30 06/07/1211:30 06/07/1211:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/15/1218:00 06/15/1218:22 06/15/1218:43 DATE RECEIVED: 06/07/12  
PREP. BATCH: CPF008W CPF008W CPF008W  
CALIB. REF: RF15015A RF15015A RF15015A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
alpha-BHC	(ND)   ND	0.200	(0.220)   0.215	(110)   108	0.200	(0.164)   0.160	(82)   80	(29)   29	30-150	30
gamma-BHC (Lindane)	(ND)   ND	0.200	(0.227)   0.225	(114)   112	0.200	(0.176)   0.173	(88)   86	(25)   26	40-130	30
beta-BHC	(ND)   ND	0.200	0.228   (0.247)	114   (123)	0.200	0.204   (0.214)	102   (107)	11   (14)	60-130	30
Heptachlor	(ND)   ND	0.200	0.211   (0.214)	105   (107)	0.200	(0.165)   0.165	(82)   82	(24)   26	30-140	30
delta-BHC	(ND)   ND	0.200	(0.255)   0.239	(127)   119	0.200	(0.228)   0.213	(114)   106	(11)   12	30-150	30
Aldrin	(ND)   ND	0.200	0.214   (0.218)	107   (109)	0.200	(0.168)   0.167	(84)   84	(24)   26	40-130	30
Heptachlor Epoxide	(ND)   ND	0.200	0.215   (0.216)	108   (108)	0.200	(0.188)   0.188	(94)   94	(13)   14	50-140	30
Endosulfan I	(ND)   ND	0.200	0.197   (0.210)	98   (105)	0.200	0.177   (0.188)	88   (94)	11   (11)	60-140	30
4,4'-DDE	(ND)   ND	0.200	(0.222)   0.220	(111)   110	0.200	(0.210)   0.207	(105)   104	(6)   6	50-140	30
Dieldrin	(ND)   ND	0.200	(0.228)   0.218	(114)   109	0.200	(0.211)   0.201	(105)   100	(8)   8	60-140	30
Endrin	(ND)   ND	0.200	0.226   (0.227)	113   (114)	0.200	(0.213)   0.213	(106)   106	(6)   6	50-140	30
4,4'-DDD	(ND)   ND	0.200	(0.224)   0.221	(112)   110	0.200	(0.220)   0.220	(110)   110	(2)   0	50-160	30
Endosulfan II	(ND)   ND	0.200	(0.218)   0.215	(109)   108	0.200	(0.211)   0.209	(105)   104	(3)   3	60-150	30
4,4'-DDT	(ND)   ND	0.200	(0.253)   0.223	(126)   112	0.200	(0.250)   0.218	(125)   109	(1)   2	60-140	30
Endrin aldehyde	(ND)   ND	0.200	(0.219)   0.215	(110)   108	0.200	(0.214)   0.211	(107)   105	(2)   2	60-160	30
Endosulfan Sulfate	(ND)   ND	0.200	(0.223)   0.218	(112)   109	0.200	(0.219)   0.218	(110)   109	(2)   0	70-140	30
Endrin Ketone	(ND)   ND	0.200	0.212   (0.213)	106   (106)	0.200	0.211   (0.213)	105   (106)	0   (0)	30-150	30
Methoxychlor	(ND)   ND	2.00	2.03   (2.10)	102   (105)	2.00	2.02   (2.11)	101   (105)	0   (0)	70-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Tetrachloro-m-xylene	0.4000	0.3493   (0.3540)	87.3   (88.5)	0.4000	0.2803   (0.2837)	70.1   (70.9)	60-140
Decachlorobiphenyl	0.4000	0.3451   (0.3551)	86.3   (88.8)	0.4000	0.3561   (0.3675)	89.0   (91.9)	20-120

METHOD 3550B/8081A  
PESTICIDES

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Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID:   SL-615-SA5C-SB-4.0-5.0           Date Analyzed: 06/15/12 20:30
Lab Samp ID: F037-14                           Dilution Factor: 1
Lab File ID: RF15026A                         Matrix          : SOIL
Ext Btch ID: CPF015S                          % Moisture     : 13.4
Calib. Ref.: RF15015A                         Instrument ID   : F9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	(ND)   ND	2.3	0.46   0.46
GAMMA-BHC (LINDANE)	(ND)   ND	2.3	0.46   0.46
BETA-BHC	(ND)   ND	2.3	0.46   0.46
HEPTACHLOR	(ND)   ND	2.3	0.46   0.46
DELTA-BHC	(ND)   ND	2.3	0.46   0.46
ALDRIN	(ND)   ND	2.3	0.46   0.46
HEPTACHLOR EPOXIDE	(ND)   ND	2.3	0.46   0.46
ENDOSULFAN I	(ND)   ND	2.3	0.46   0.46
4,4'-DDE	(ND)   ND	2.3	0.46   0.46
DIELDRIN	(ND)   ND	2.3	0.46   0.46
ENDRIN	(ND)   ND	2.3	0.46   0.46
4,4'-DDD	(ND)   ND	2.3	0.46   0.46
ENDOSULFAN II	(ND)   ND	2.3	0.46   0.46
4,4'-DDT	(ND)   ND	2.3	0.46   0.46
ENDRIN ALDEHYDE	(ND)   ND	2.3	0.46   0.46
ENDOSULFAN SULFATE	(ND)   ND	2.3	0.46   0.46
ENDRIN KETONE	(ND)   ND	2.3	0.46   0.46
METHOXYCHLOR	(ND)   ND	5.8	2.3   2.3
MIREX	(ND)   ND	2.3	0.46   0.46
TOXAPHENE	(ND)   ND	58	12   12
CHLORDANE (TECHNICAL)	(ND)   ND	12	5.8   5.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	12.75   (14.12)	15.39	82.8   (91.7)	50-130
DECACHLOROBIPHENYL	13.04   (13.51)	15.39	84.7   (87.7)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3550B/8081A  
PESTICIDES

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID:   SL-615-SA5C-SB-9.0-10.0           Date Analyzed: 06/15/12 20:52
Lab Samp ID: F037-16                            Dilution Factor: 1
Lab File ID: RF15027A                           Matrix          : SOIL
Ext Btch ID: CPF015S                             % Moisture     : 9.2
Calib. Ref.: RF15015A                           Instrument ID   : F9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	(ND)   ND	2.2	0.44   0.44
GAMMA-BHC (LINDANE)	(ND)   ND	2.2	0.44   0.44
BETA-BHC	(ND)   ND	2.2	0.44   0.44
HEPTACHLOR	(ND)   ND	2.2	0.44   0.44
DELTA-BHC	(ND)   ND	2.2	0.44   0.44
ALDRIN	(ND)   ND	2.2	0.44   0.44
HEPTACHLOR EPOXIDE	(ND)   ND	2.2	0.44   0.44
ENDOSULFAN I	(ND)   ND	2.2	0.44   0.44
4,4'-DDE	(ND)   ND	2.2	0.44   0.44
DIELDRIN	(ND)   ND	2.2	0.44   0.44
ENDRIN	(ND)   ND	2.2	0.44   0.44
4,4'-DDD	(ND)   ND	2.2	0.44   0.44
ENDOSULFAN II	(ND)   ND	2.2	0.44   0.44
4,4'-DDT	(ND)   ND	2.2	0.44   0.44
ENDRIN ALDEHYDE	(ND)   ND	2.2	0.44   0.44
ENDOSULFAN SULFATE	(ND)   ND	2.2	0.44   0.44
ENDRIN KETONE	(ND)   ND	2.2	0.44   0.44
METHOXYCHLOR	(ND)   ND	5.5	2.2   2.2
MIREX	(ND)   ND	2.2	0.44   0.44
TOXAPHENE	(ND)   ND	55	11   11
CHLORDANE (TECHNICAL)	(ND)   10J	11	5.5   5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	12.30   (12.45)	14.68	83.8   (84.8)	50-130
DECACHLOROBIPHENYL	12.23   (12.50)	14.68	83.3   (85.1)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3550B/8081A  
PESTICIDES

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/14/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID    : MBLK1S                            Date Analyzed: 06/15/12 19:26
Lab Samp ID  : CPF015SB                         Dilution Factor: 1
Lab File ID  : RF15023A                        Matrix          : SOIL
Ext Btch ID  : CPF015S                          % Moisture     : NA
Calib. Ref.  : RF15015A                        Instrument ID   : F9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ALPHA-BHC	(ND)   ND	2.0	0.40   0.40
GAMMA-BHC (LINDANE)	(ND)   ND	2.0	0.40   0.40
BETA-BHC	(ND)   ND	2.0	0.40   0.40
HEPTACHLOR	(ND)   ND	2.0	0.40   0.40
DELTA-BHC	(ND)   ND	2.0	0.40   0.40
ALDRIN	(ND)   ND	2.0	0.40   0.40
HEPTACHLOR EPOXIDE	(ND)   ND	2.0	0.40   0.40
ENDOSULFAN I	(ND)   ND	2.0	0.40   0.40
4,4'-DDE	(ND)   ND	2.0	0.40   0.40
DIELDRIN	(ND)   ND	2.0	0.40   0.40
ENDRIN	(ND)   ND	2.0	0.40   0.40
4,4'-DDD	(ND)   ND	2.0	0.40   0.40
ENDOSULFAN II	(ND)   ND	2.0	0.40   0.40
4,4'-DDT	(ND)   ND	2.0	0.40   0.40
ENDRIN ALDEHYDE	(ND)   ND	2.0	0.40   0.40
ENDOSULFAN SULFATE	(ND)   ND	2.0	0.40   0.40
ENDRIN KETONE	(ND)   ND	2.0	0.40   0.40
METHOXYCHLOR	(ND)   ND	5.0	2.0   2.0
MIREX	(ND)   ND	2.0	0.40   0.40
TOXAPHENE	(ND)   ND	50	10   10
CHLORDANE (TECHNICAL)	(ND)   ND	10	5.0   5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	11.32   (11.40)	13.33	84.9   (85.5)	50-130
DECACHLOROBIPHENYL	11.11   (11.53)	13.33	83.4   (86.5)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: CPF015SB CPF015SL CPF015SC  
LAB FILE ID: RF15023A RF15024A RF15025A  
DATE EXTRACTED: 06/14/1214:55 06/14/1214:55 06/14/1214:55 DATE COLLECTED: NA  
DATE ANALYZED: 06/15/1219:26 06/15/1219:47 06/15/1220:09 DATE RECEIVED: 06/14/12  
PREP. BATCH: CPF015S CPF015S CPF015S  
CALIB. REF: RF15015A RF15015A RF15015A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
alpha-BHC	(ND)   ND	6.67	(7.08)   6.95	(106)   104	6.67	(7.07)   6.94	(106)   104	(0)   0	30-150	50
gamma-BHC (Lindane)	(ND)   ND	6.67	(7.24)   7.23	(109)   108	6.67	7.21   (7.22)	108   (108)	0   (0)	40-130	50
beta-BHC	(ND)   ND	6.67	(7.34)   7.20	(110)   108	6.67	(7.31)   7.18	(110)   108	(0)   0	50-140	50
Heptachlor	(ND)   ND	6.67	6.82   (6.92)	102   (104)	6.67	6.81   (6.88)	102   (103)	0   (1)	30-130	50
delta-BHC	(ND)   ND	6.67	(7.56)   7.52	(113)   113	6.67	(7.56)   7.54	(113)   113	(0)   0	30-150	50
Aldrin	(ND)   ND	6.67	6.75   (6.76)	101   (101)	6.67	6.74   (6.76)	101   (101)	0   (0)	30-130	50
Heptachlor Epoxide	(ND)   ND	6.67	(6.90)   6.90	(103)   103	6.67	6.89   (6.91)	103   (104)	0   (0)	60-140	50
Endosulfan I	(ND)   ND	6.67	6.28   (6.67)	94   (100)	6.67	6.28   (6.65)	94   (100)	0   (0)	50-150	50
4,4'-DDE	(ND)   ND	6.67	6.98   (7.03)	105   (105)	6.67	(6.98)   6.91	(105)   104	(0)   2	50-150	50
Dieldrin	(ND)   ND	6.67	(7.18)   6.93	(108)   104	6.67	(7.18)   6.84	(108)   103	(0)   1	60-130	50
Endrin	(ND)   ND	6.67	(7.13)   7.10	(107)   106	6.67	(7.15)   7.15	(107)   107	(0)   1	50-140	50
4,4'-DDD	(ND)   ND	6.67	6.93   (7.06)	104   (106)	6.67	6.96   (7.45)	104   (112)	0   (5)	50-160	50
Endosulfan II	(ND)   ND	6.67	(6.76)   6.67	(101)   100	6.67	(6.77)   6.74	(101)   101	(0)   1	60-150	50
4,4'-DDT	(ND)   ND	6.67	(7.92)   6.90	(119)   103	6.67	(7.94)   6.80	(119)   102	(0)   1	60-140	50
Endrin aldehyde	(ND)   ND	6.67	(6.76)   6.67	(101)   100	6.67	(6.78)   6.59	(102)   99	(0)   1	50-160	50
Endosulfan Sulfate	(ND)   ND	6.67	(6.86)   6.82	(103)   102	6.67	(6.89)   6.76	(103)   101	(0)   1	70-140	50
Endrin Ketone	(ND)   ND	6.67	6.57   (6.60)	99   (99)	6.67	(6.58)   6.51	(99)   98	(0)   1	70-160	50
Methoxychlor	(ND)   ND	66.7	63.0   (65.1)	94   (98)	66.7	62.9   (64.8)	94   (97)	0   (0)	70-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Tetrachloro-m-xylene	13.33	11.29   (11.32)	84.7   (84.9)	13.33	11.45   (11.50)	85.9   (86.3)	50-130
Decachlorobiphenyl	13.33	11.10   (11.39)	83.3   (85.5)	13.33	(11.13)   10.97	(83.5)   82.3	20-120

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3550B/8081A

MATRIX: SOIL % MOISTURE: 9.2  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-615-SA5C-SB-9.0-10.0  
LAB SAMP ID: F037-16 F037-16M F037-16S  
LAB FILE ID: RF15027A RF15041A RF15042A  
DATE EXTRACTED: 06/14/1214:55 06/14/1214:55 06/14/1214:55 DATE COLLECTED: 06/05/12  
DATE ANALYZED: 06/15/1220:52 06/18/1219:46 06/18/1220:07 DATE RECEIVED: 06/05/12  
PREP. BATCH: CPF015S CPF015S CPF015S  
CALIB. REF: RF15015A RF15036A RF15036A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
alpha-BHC	(ND)   ND	7.35	7.70   (7.90)	105   (108)	7.35	7.82   (8.00)	106   (109)	2   (1)	30-150	50
gamma-BHC (Lindane)	(ND)   ND	7.35	7.64   (7.81)	104   (106)	7.35	7.89   (8.09)	107   (110)	3   (4)	20-150	50
beta-BHC	(ND)   ND	7.35	(7.99)   7.98	(109)   109	7.35	8.41   (8.47)	114   (115)	5   (6)	50-140	50
Heptachlor	(ND)   ND	7.35	7.51   (7.58)	102   (103)	7.35	(7.75)   7.74	(106)   105	(3)   2	20-140	50
delta-BHC	(ND)   ND	7.35	8.37   (8.40)	114   (114)	7.35	(8.92)   8.84	(121)   120	(6)   5	30-150	50
Aldrin	(ND)   ND	7.35	7.48   (7.51)	102   (102)	7.35	7.68   (7.74)	105   (105)	3   (3)	20-160	50
Heptachlor Epoxide	(ND)   ND	7.35	7.27   (7.56)	99   (103)	7.35	7.57   (7.86)	103   (107)	4   (4)	40-140	50
Endosulfan I	(ND)   ND	7.35	6.68   (7.25)	91   (99)	7.35	7.00   (7.52)	95   (102)	5   (4)	50-160	50
4,4'-DDE	(ND)   ND	7.35	(7.55)   7.48	(103)   102	7.35	(7.88)   7.81	(107)   106	(4)   4	50-150	50
Dieldrin	(ND)   ND	7.35	7.43   (7.44)	101   (101)	7.35	(7.80)   7.74	(106)   105	(5)   4	10-160	50
Endrin	(ND)   ND	7.35	(7.65)   7.52	(104)   102	7.35	(8.06)   7.62	(110)   104	(5)   1	20-160	50
4,4'-DDD	(ND)   ND	7.35	7.33   (7.51)	100   (102)	7.35	7.81   (8.02)	106   (109)	6   (7)	50-160	50
Endosulfan II	(ND)   ND	7.35	7.22   (7.24)	98   (99)	7.35	7.51   (7.59)	102   (103)	4   (5)	40-160	50
4,4'-DDT	(ND)   ND	7.35	(8.42)   7.37	(115)   100	7.35	(8.95)   7.73	(122)   105	(6)   5	30-160	50
Endrin aldehyde	(ND)   ND	7.35	7.24   (7.29)	99   (99)	7.35	(7.57)   7.56	(103)   103	(4)   4	50-140	50
Endosulfan Sulfate	(ND)   ND	7.35	7.41   (7.48)	101   (102)	7.35	(7.75)   7.68	(106)   105	(4)   3	40-160	50
Endrin Ketone	(ND)   ND	7.35	6.97   (7.14)	95   (97)	7.35	7.27   (7.37)	99   (100)	4   (3)	50-160	50
Methoxychlor	(ND)   ND	73.5	64.6   (66.3)	88   (90)	73.5	67.9   (69.8)	92   (95)	5   (5)	60-140	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Tetrachloro-m-xylene	14.68	(13.30)   13.06	(90.6)   88.9	14.68	(12.92)   12.73	(88.0)   86.7	50-130
Decachlorobiphenyl	14.68	12.02   (12.34)	81.9   (84.0)	14.68	11.84   (12.51)	80.6   (85.2)	20-120

METHOD 3520C/8082  
PCBs

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Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/07/12 11:30
Sample ID    : FB-060512                        Date Analyzed: 06/13/12 17:13
Lab Samp ID  : F037-01                          Dilution Factor: 1
Lab File ID  : SF13009A                         Matrix          : WATER
Ext Btch ID  : CPF008W                           % Moisture     : NA
Calib. Ref.  : SF13003A                         Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(0.3781)   0.3620	0.4000	(94.5)   90.5	45-120
TETRACHLORO-M-XYLENE	0.3347   (0.3788)	0.4000	83.7   (94.7)	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3520C/8082  
PCBs

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=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.  : 12F037                             Date Extracted: 06/07/12 11:30
Sample ID  : MBLK1W                             Date Analyzed: 06/13/12 15:27
Lab Samp ID: CPF008WB                          Dilution Factor: 1
Lab File ID: SF13006A                          Matrix          : WATER
Ext Btch ID: CPF008WB                          % Moisture     : NA
Calib. Ref.: SF13003A                          Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	0.3696   (0.3777)	0.4000	92.4   (94.4)	45-120
TETRACHLORO-M-XYLENE	0.3323   (0.3928)	0.4000	83.1   (98.2)	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPF008WB 60F008WL 60F008WC  
LAB FILE ID: SF13006A SF13007A SF13008A  
DATE EXTRACTED: 06/07/1211:30 06/07/1211:30 06/07/1211:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/13/1215:27 06/13/1216:02 06/13/1216:37 DATE RECEIVED: 06/07/12  
PREP. BATCH: CPF008W CPF008W CPF008W  
CALIB. REF: SF13003A SF13003A SF13003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	3.98   (4.95)	80   (99)	5.00	4.31   (4.92)	86   (98)	8   (1)	50-130	30
Aroclor 1260	(ND)   ND	5.00	4.69   (5.23)	94   (105)	5.00	4.83   (5.33)	97   (107)	3   (2)	60-150	30
Aroclor 5460	(ND)   ND	2.50	(2.79)   2.67	(112)   107	2.50	(2.96)   2.82	(118)   113	(6)   5	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	(0.3783)   0.3553	(94.6)   88.8	0.4000	(0.3941)   0.3749	(98.5)   93.7	45-120
Tetrachloro-m-xylene	0.4000	0.3621   (0.3765)	90.5   (94.1)	0.4000	0.3807   (0.3917)	95.2   (97.9)	30-140

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID:   SL-545-SA5C-SB-0.0-0.5            Date Analyzed: 06/15/12 22:46
Lab Samp ID: F037-02                            Dilution Factor: 1
Lab File ID: SF15019A                          Matrix          : SOIL
Ext Btch ID: CPF015S                            % Moisture     : 12.2
Calib. Ref.: SF15014A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	9.987   (10.97)	15.18	65.8   (72.3)	45-120
TETRACHLORO-M-XYLENE	(13.27)   13.23	15.18	(87.4)   87.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID    : SL-545-SA5C-SB-4.0-5.0          Date Analyzed: 06/15/12 23:21
Lab Samp ID  : F037-03                           Dilution Factor: 1
Lab File ID  : SF15020A                          Matrix          : SOIL
Ext Btch ID  : CPF015S                            % Moisture     : 12.7
Calib. Ref.  : SF15014A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.37   (11.99)	15.27	74.5   (78.6)	45-120
TETRACHLORO-M-XYLENE	13.95   (14.95)	15.27	91.4   (97.9)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/04/12
Project    : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.  : 12F037                             Date Extracted: 06/14/12 14:55
Sample ID: SL-545-SA5C-SB-9.0-10.0            Date Analyzed: 06/15/12 23:56
Lab Samp ID: F037-05                           Dilution Factor: 1
Lab File ID: SF15021A                          Matrix          : SOIL
Ext Btch ID: CPF015S                            % Moisture     : 12.2
Calib. Ref.: SF15014A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	11.93   (12.20)	15.18	78.6   (80.4)	45-120
TETRACHLORO-M-XYLENE	12.41   (13.15)	15.18	81.7   (86.6)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID:   SL-543-SA5C-SB-0.0-0.5            Date Analyzed: 06/16/12 00:31
Lab Samp ID: F037-07                            Dilution Factor: 1
Lab File ID: SF15022A                           Matrix          : SOIL
Ext Btch ID: CPF015S                             % Moisture      : 9.7
Calib. Ref.: SF15014A                           Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.90   (12.15)	14.76	80.6   (82.3)	45-120
TETRACHLORO-M-XYLENE	11.90   (13.15)	14.76	80.6   (89.1)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/14/12 14:55
Sample ID    : SL-543-SA5C-SB-3.5-4.5           Date Analyzed: 06/16/12 01:07
Lab Samp ID  : F037-08                           Dilution Factor: 1
Lab File ID  : SF15023A                          Matrix          : SOIL
Ext Btch ID  : CPF015S                           % Moisture     : 6.3
Calib. Ref.  : SF15014A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIIPHENYL	11.91   (12.30)	14.23	83.7   (86.5)	45-120
TETRACHLORO-M-XYLENE	11.70   (12.00)	14.23	82.2   (84.4)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID    : SL-552-SA5C-SB-0.0-0.5          Date Analyzed: 06/16/12 08:09
Lab Samp ID  : F037-10                          Dilution Factor: 1
Lab File ID  : SF15035A                         Matrix          : SOIL
Ext Btch ID  : CPF015S                          % Moisture     : 5.8
Calib. Ref.  : SF15032A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIIPHENYL	(7.892)   7.766	14.15	(55.8)   54.9	45-120
TETRACHLORO-M-XYLENE	10.18   (11.08)	14.15	71.9   (78.3)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID:   SL-561-SA5C-SB-0.0-0.5            Date Analyzed: 06/16/12 01:42
Lab Samp ID: F037-11                            Dilution Factor: 1
Lab File ID: SF15024A                          Matrix          : SOIL
Ext Btch ID: CPF015S                            % Moisture     : 11.8
Calib. Ref.: SF15014A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.42   (12.38)	15.11	75.6   (81.9)	45-120
TETRACHLORO-M-XYLENE	12.93   (14.51)	15.11	85.5   (96.0)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 06/05/12
Project    : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.  : 12F037                             Date Extracted: 06/14/12 14:55
Sample ID: SL-561-SA5C-SB-5.5-6.5             Date Analyzed: 06/16/12 02:17
Lab Samp ID: F037-12                           Dilution Factor: 1
Lab File ID: SF15025A                          Matrix          : SOIL
Ext Btch ID: CPF015S                            % Moisture     : 5.6
Calib. Ref.: SF15014A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	8.478   (9.228)	14.12	60.0   (65.3)	45-120
TETRACHLORO-M-XYLENE	11.91   (13.69)	14.12	84.3   (97.0)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID    : SL-615-SA5C-SB-4.0-5.0          Date Analyzed: 06/16/12 02:52
Lab Samp ID  : F037-14                          Dilution Factor: 1
Lab File ID  : SF15026A                         Matrix          : SOIL
Ext Btch ID  : CPF015S                          % Moisture     : 13.4
Calib. Ref.  : SF15014A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(12.92)   12.78	15.39	(83.9)   83.0	45-120
TETRACHLORO-M-XYLENE	13.72   (14.55)	15.39	89.1   (94.5)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID    : SL-615-SA5C-SB-9.0-10.0         Date Analyzed: 06/15/12 21:00
Lab Samp ID  : F037-16                          Dilution Factor: 1
Lab File ID  : SF15016A                         Matrix          : SOIL
Ext Btch ID  : CPF015S                          % Moisture     : 9.2
Calib. Ref.  : SF15014A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.59   (13.11)	14.68	85.8   (89.3)	45-120
TETRACHLORO-M-XYLENE	12.51   (13.76)	14.68	85.2   (93.7)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                       Date Received: 06/05/12
Batch No.    : 12F037                             Date Extracted: 06/14/12 14:55
Sample ID    : SL-539-SA5C-SB-0.0-0.5            Date Analyzed: 06/16/12 03:28
Lab Samp ID  : F037-18                           Dilution Factor: 1
Lab File ID  : SF15027A                          Matrix          : SOIL
Ext Btch ID  : CPF015S                           % Moisture     : 11.7
Calib. Ref.  : SF15014A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.54   (12.59)	15.10	83.1   (83.4)	45-120
TETRACHLORO-M-XYLENE	12.61   (13.77)	15.10	83.6   (91.2)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID:   SL-539-SA5C-SB-6.0-7.0           Date Analyzed: 06/16/12 04:03
Lab Samp ID: F037-19                           Dilution Factor: 1
Lab File ID: SF15028A                          Matrix          : SOIL
Ext Btch ID: CPF015S                            % Moisture     : 9.5
Calib. Ref.: SF15014A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.43   (12.84)	14.73	84.4   (87.2)	45-120
TETRACHLORO-M-XYLENE	12.39   (13.79)	14.73	84.1   (93.6)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID    : SL-551-SA5C-SB-0.0-0.5          Date Analyzed: 06/16/12 04:38
Lab Samp ID  : F037-21                          Dilution Factor: 1
Lab File ID  : SF15029A                        Matrix          : SOIL
Ext Btch ID  : CPF015S                          % Moisture     : 13.8
Calib. Ref.  : SF15014A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.34   (13.96)	15.46	86.2   (90.3)	45-120
TETRACHLORO-M-XYLENE	(13.65)   13.00	15.46	(88.2)   84.1	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/14/12 14:55
Sample ID:   SL-551-SA5C-SB-4.0-5.0           Date Analyzed: 06/16/12 05:13
Lab Samp ID: F037-22                           Dilution Factor: 1
Lab File ID: SF15030A                          Matrix          : SOIL
Ext Btch ID: CPF015S                            % Moisture     : 10.6
Calib. Ref.: SF15014A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.19   (12.81)	14.91	81.8   (85.9)	45-120
TETRACHLORO-M-XYLENE	11.36   (12.62)	14.91	76.2   (84.6)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/14/12
Batch No.  : 12F037                             Date Extracted: 06/14/12 14:55
Sample ID  : MBLK1S                             Date Analyzed: 06/15/12 14:22
Lab Samp ID: 60F015SB                          Dilution Factor: 1
Lab File ID: SF15005A                          Matrix          : SOIL
Ext Btch ID: CPF015S                            % Moisture     : NA
Calib. Ref.: SF15002A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.56   (11.67)	13.33	86.7   (87.5)	45-120
TETRACHLORO-M-XYLENE	11.40   (12.95)	13.33	85.5   (97.2)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F015SB 60F015SL 60F015SC  
LAB FILE ID: SF15005A SF15006A SF15007A  
DATE EXTRACTED: 06/14/1214:55 06/14/1214:55 06/14/1214:55 DATE COLLECTED: NA  
DATE ANALYZED: 06/15/1214:22 06/15/1214:57 06/15/1215:33 DATE RECEIVED: 06/14/12  
PREP. BATCH: CPF015S CPF015S CPF015S  
CALIB. REF: SF15002A SF15002A SF15002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	132   (167)	79   (100)	167	131   (161)	79   (97)	1   (4)	50-130	50
Aroclor 1260	(ND)   ND	167	143   (164)	86   (98)	167	145   (160)	87   (96)	1   (2)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(86.2)   82.6	(103)   99	83.3	(83.5)   80.3	(100)   96	(3)   3	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(11.69)   11.52	(87.7)   86.4	13.33	(11.77)   11.57	(88.3)   86.8	45-120
Tetrachloro-m-xylene	13.33	11.38   (12.97)	85.3   (97.3)	13.33	11.41   (12.74)	85.6   (95.6)	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 9.2  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-615-SA5C-SB-9.0-10.0  
LAB SAMP ID: F037-16 F037-16M F037-16S  
LAB FILE ID: SF15016A SF15017A SF15018A  
DATE EXTRACTED: 06/14/1214:55 06/14/1214:55 06/14/1214:55 DATE COLLECTED: 06/05/12  
DATE ANALYZED: 06/15/1221:00 06/15/1221:35 06/15/1222:10 DATE RECEIVED: 06/05/12  
PREP. BATCH: CPF015S CPF015S CPF015S  
CALIB. REF: SF15014A SF15014A SF15014A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	184	144   (157)	78   (86)	184	142   (175)	77   (95)	1   (11)	20-160	50
Aroclor 1260	(ND)   ND	184	149   (165)	81   (90)	184	149   (177)	81   (96)	0   (7)	20-160	50
Aroclor 5460	(ND)   ND	91.8	(96.7)   95.6	(105)   104	91.8	(93.6)   91.6	(102)   100	(3)   4	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.68	11.94   (12.54)	81.3   (85.4)	14.68	12.64   (12.81)	86.1   (87.3)	45-120
Tetrachloro-m-xylene	14.68	11.96   (13.09)	81.5   (89.2)	14.68	12.15   (13.75)	82.8   (93.7)	10-160

METHOD 8151A  
HERBICIDES

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/08/12 18:41
Sample ID    : FB-060512                        Date Analyzed: 06/11/12 20:47
Lab Samp ID  : F037-01                          Dilution Factor: 1
Lab File ID  : WF11021A                         Matrix          : WATER
Ext Btch ID  : HEF002W                           % Moisture      : NA
Calib. Ref.  : WF11012A                         Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
2,4-D	(ND)   ND	0.80	0.20   0.20	
2,4-DB	(ND)   ND	0.80	0.20   0.20	
2,4,5-T	(ND)   ND	0.80	0.20   0.20	
2,4,5-TP (SILVEX)	(ND)   ND	0.80	0.20   0.20	
DALAPON	(ND)   ND	0.80	0.20   0.20	
DICAMBA	(ND)   ND	0.80	0.20   0.20	
DICHLOROPROP	(ND)   ND	0.80	0.20   0.20	
DINOSEB	(ND)   0.29J	0.80	0.20   0.20	
MCPA	(ND)   ND	100	20   20	
MCPA	(ND)   ND	100	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(11.06)   10.99	10.00	(111)   110	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/08/12
Batch No.    : 12F037                           Date Extracted: 06/08/12 18:41
Sample ID    : MBLK1W                           Date Analyzed: 06/11/12 17:56
Lab Samp ID  : HEF002WB                         Dilution Factor: 1
Lab File ID  : WF11013A                        Matrix          : WATER
Ext Btch ID  : HEF002W                          % Moisture     : NA
Calib. Ref.  : WF11012A                        Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
2,4-D	(ND)   ND	0.80	0.20   0.20
2,4-DB	(ND)   ND	0.80	0.20   0.20
2,4,5-T	(ND)   ND	0.80	0.20   0.20
2,4,5-TP (SILVEX)	(ND)   ND	0.80	0.20   0.20
DALAPON	(ND)   ND	0.80	0.20   0.20
DICAMBA	(ND)   ND	0.80	0.20   0.20
DICHLOROPROP	(ND)   ND	0.80	0.20   0.20
DINOSEB	(ND)   ND	0.80	0.20   0.20
MCPA	(ND)   ND	100	20   20
MCPA	(ND)   ND	100	20   20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(10.38)   10.04	10.00	(104)   100	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 8151A

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HEF002WB HEF002WL HEF002WC  
LAB FILE ID: WF11013A WF11014A WF11015A  
DATE EXTRACTED: 06/08/1218:41 06/08/1218:41 06/08/1218:41 DATE COLLECTED: NA  
DATE ANALYZED: 06/11/1217:56 06/11/1218:17 06/11/1218:39 DATE RECEIVED: 06/08/12  
PREP. BATCH: HEF002W HEF002W HEF002W  
CALIB. REF: WF11012A WF11012A WF11012A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
2,4-D	(ND)   ND	1.00	(1.13)   1.11	(113)   111	1.00	(1.07)   1.04	(107)   104	(5)   7	40-130	30
2,4-DB	(ND)   ND	1.00	(1.01)   0.948	(101)   95	1.00	(0.909)   0.858	(91)   86	(11)   10	30-160	30
2,4,5-T	(ND)   ND	1.00	(1.06)   0.992	(106)   99	1.00	(0.981)   0.830	(98)   83	(8)   18	40-140	30
2,4,5-TP (Silvex)	(ND)   ND	1.00	1.11   (1.18)	111   (118)	1.00	1.07   (1.09)	107   (109)	4   (8)	60-140	30
Dalapon	(ND)   ND	1.00	0.779J   (1.07)	78   (107)	1.00	0.728J   (1.01)	73   (101)	7   (6)	30-130	30
Dicamba	(ND)   ND	1.00	(1.07)   1.07	(107)   107	1.00	(1.00)   0.994	(100)   99	(7)   7	50-130	30
Dichloroprop	(ND)   ND	1.00	1.16   (1.20)	116   (120)	1.00	1.13   (1.19)	113   (119)	3   (1)	70-150	30
Dinoseb	(ND)   ND	1.00	(0.914)   0.780J	(91)   78	1.00	(0.864)   0.783J	(86)   78	(6)   0	20-130	30
MCPA	(ND)   ND	50.0	53.8J   (56.2J)	108   (112)	50.0	50.9J   (52.8J)	102   (106)	6   (6)	30-150	30
MCPP	(ND)   ND	50.0	(57.3J)   50.5J	(115)   101	50.0	(51.2J)   48.2J	(102)   96	(11)   5	30-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
2,4-DCPAA	10.00	(10.37)   10.35	(104)   103	10.00	(10.09)   10.02	(101)   100	40-140

METHOD 8151A  
HERBICIDES

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/08/12 18:36
Sample ID    : SL-615-SA5C-SB-4.0-5.0          Date Analyzed: 06/11/12 22:12
Lab Samp ID  : F037-14                           Dilution Factor: 1
Lab File ID  : WF11025A                          Matrix          : SOIL
Ext Btch ID  : HEP001S                            % Moisture     : 13.4
Calib. Ref.  : WF11024A                          Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
2,4-D	(ND)   ND	12	5.8   5.8	
2,4-DB	(ND)   ND	12	5.8   5.8	
2,4,5-T	(ND)   ND	12	5.8   5.8	
2,4,5-TP (SILVEX)	(ND)   ND	12	5.8   5.8	
DALAPON	7.0J   (ND)	12	5.8   5.8	
DICAMBA	(ND)   ND	12	5.8   5.8	
DICHLOROPROP	(ND)   ND	12	5.8   5.8	
DINOSEB	(ND)   ND	12	5.8   5.8	
MCPA	(ND)   ND	2300	1200   1200	
MCPP	(ND)   ND	2300	1200   1200	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(588.0)   579.6	577.4	(102)   100	10-150

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/08/12 18:36
Sample ID:   SL-615-SA5C-SB-9.0-10.0           Date Analyzed: 06/11/12 22:34
Lab Samp ID: F037-16                            Dilution Factor: 1
Lab File ID: WF11026A                           Matrix          : SOIL
Ext Btch ID: HEF001S                             % Moisture     : 9.2
Calib. Ref.: WF11024A                           Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
2,4-D	(ND)   ND	11	5.5   5.5	
2,4-DB	(ND)   ND	11	5.5   5.5	
2,4,5-T	(ND)   ND	11	5.5   5.5	
2,4,5-TP (SILVEX)	(ND)   ND	11	5.5   5.5	
DALAPON	7.2J   (ND)	11	5.5   5.5	
DICAMBA	(ND)   ND	11	5.5   5.5	
DICHLOROPROP	(ND)   ND	11	5.5   5.5	
DINOSEB	(ND)   ND	11	5.5   5.5	
MCPA	(ND)   ND	2200	1100   1100	
MCPP	(ND)   ND	2200	1100   1100	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(598.6)   585.0	550.7	(109)   106	10-150

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

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=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/08/12
Batch No.  : 12F037                             Date Extracted: 06/08/12 18:36
Sample ID  : MBLK1S                             Date Analyzed: 06/11/12 19:00
Lab Samp ID: HEF001SB                          Dilution Factor: 1
Lab File ID: WF11016A                          Matrix          : SOIL
Ext Btch ID: HEF001S                            % Moisture     : NA
Calib. Ref.: WF11012A                          Instrument ID   : GCT016
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
2,4-D	(ND)   ND	10	5.0   5.0	
2,4-DB	(ND)   ND	10	5.0   5.0	
2,4,5-T	(ND)   ND	10	5.0   5.0	
2,4,5-TP (SILVEX)	(ND)   ND	10	5.0   5.0	
DALAPON	(ND)   ND	10	5.0   5.0	
DICAMBA	(ND)   ND	10	5.0   5.0	
DICHLOROPROP	(ND)   ND	10	5.0   5.0	
DINOSEB	(ND)   ND	10	5.0   5.0	
MCPA	(ND)   ND	2000	1000   1000	
MCPP	(ND)   ND	2000	1000   1000	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(615.7)   603.3	500.0	(123)   121	30-140

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Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 8151A

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HEF001SB HEF001SL HEF001SC  
LAB FILE ID: WF11016A WF11017A WF11018A  
DATE EXTRACTED: 06/08/1218:36 06/08/1218:36 06/08/1218:36 DATE COLLECTED: NA  
DATE ANALYZED: 06/11/1219:00 06/11/1219:21 06/11/1219:43 DATE RECEIVED: 06/08/12  
PREP. BATCH: HEF001S HEF001S HEF001S  
CALIB. REF: WF11012A WF11012A WF11012A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
2,4-D	(ND)   ND	50.0	62.2   (64.2)	124   (128)	50.0	(58.8)   56.2	(118)   112	(6)   13	20-130	50
2,4-DB	(ND)   ND	50.0	52.8   (58.2)	106   (116)	50.0	45.0   (48.5)	90   (97)	16   (18)	20-160	50
2,4,5-T	(ND)   ND	50.0	(65.3)   59.9	(131)   120	50.0	(54.8)   50.7	(110)   101	(17)   17	30-140	50
2,4,5-TP (Silvex)	(ND)   ND	50.0	67.2   (69.7)	134   (139)	50.0	57.2   (60.1)	114   (120)	16   (15)	30-140	50
Dalapon	(ND)   ND	50.0	(49.0)   47.4	(98)   95	50.0	(70.6)   40.3	(141)   81	(36)   16	20-160	50
Dicamba	(ND)   ND	50.0	64.3   (67.6)	129   (135)	50.0	54.3   (55.9)	109   (112)	17   (19)	50-150	50
Dichloroprop	(ND)   ND	50.0	75.5   (77.5)	151   (155)	50.0	62.7   (64.5)	125   (129)	19   (18)	60-160	50
Dinoseb	(ND)   ND	50.0	(28.4)   15.5	(57)   31	50.0	(22.9)   12.0	(46)   24	(21)   25	20-130	50
MCPA	(ND)   ND	2500	2730   (3060)	109   (122)	2500	(2940)   2920	(118)   117	(7)   5	20-160	50
MCPP	(ND)   ND	2500	2410   (2760)	96   (110)	2500	(2820)   2790	(113)   112	(16)   1	40-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
2,4-DCPAA	500.0	655.4   (658.6)	131   (132)	500.0	(571.6)   564.5	(114)   113	30-140

METHOD 8330A  
EXPLOSIVES

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 15:46
Sample ID:   FB-060512                          Date Analyzed: 06/13/12 20:02
Lab Samp ID: F037-01                             Dilution Factor: 1
Lab File ID: XF13012A                           Matrix          : WATER
Ext Btch ID: EXP005W                             % Moisture     : NA
Calib. Ref.: XF13008A                           Instrument ID   : T-081
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
HMX	ND	0.60	0.20
RDX	ND	0.60	0.20
1,3,5-TRINITROBENZENE	ND	0.60	0.20
1,3-DINITROBENZENE	ND	0.60	0.20
TETRYL	ND	0.60	0.20
NITROBENZENE	ND	0.60	0.20
2,4,6-TRINITROTOLUENE	ND	0.60	0.20
4-AMINO-2,6-DINITROTOLUENE	ND	0.60	0.20
2-AMINO-4,6-DINITROTOLUENE	ND	0.60	0.20
2,6-DINITROTOLUENE	ND	0.60	0.20
2,4-DINITROTOLUENE	ND	0.60	0.20
2-NITROTOLUENE	ND	0.60	0.20
3-NITROTOLUENE	ND	0.60	0.20
4-NITROTOLUENE	ND	0.60	0.20
2,4-DIAMINO-6-NITROTOLUENE	ND	2.0	1.0
2,6-DIAMINO-4-NITROTOLUENE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DINITROBENZENE	4.29	4.000	107	65-135

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A  
EXPLOSIVES

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 15:46
Sample ID    : MBLK1W                           Date Analyzed: 06/13/12 18:08
Lab Samp ID  : EXP005WB                         Dilution Factor: 1
Lab File ID  : XF13009A                        Matrix          : WATER
Ext Btch ID  : EXP005W                          % Moisture     : NA
Calib. Ref.  : XF13008A                        Instrument ID   : T-081
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
HMX	ND	0.60	0.20
RDX	ND	0.60	0.20
1,3,5-TRINITROBENZENE	ND	0.60	0.20
1,3-DINITROBENZENE	ND	0.60	0.20
TETRYL	ND	0.60	0.20
NITROBENZENE	ND	0.60	0.20
2,4,6-TRINITROTOLUENE	ND	0.60	0.20
4-AMINO-2,6-DINITROTOLUENE	ND	0.60	0.20
2-AMINO-4,6-DINITROTOLUENE	ND	0.60	0.20
2,6-DINITROTOLUENE	ND	0.60	0.20
2,4-DINITROTOLUENE	ND	0.60	0.20
2-NITROTOLUENE	ND	0.60	0.20
3-NITROTOLUENE	ND	0.60	0.20
4-NITROTOLUENE	ND	0.60	0.20
2,4-DIAMINO-6-NITROTOLUENE	ND	2.0	1.0
2,6-DIAMINO-4-NITROTOLUENE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DINITROBENZENE	3.77	4.000	94.2	65-135

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 8330A

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: EXF005WB EXF005WL EXF005WC  
LAB FILE ID: XF13009A XF13010A XF13011A  
DATE EXTRACTED: 06/11/1215:46 06/11/1215:46 06/11/1215:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/13/1218:08 06/13/1218:46 06/13/1219:24 DATE RECEIVED: 06/11/12  
PREP. BATCH: EXF005W EXF005W EXF005W  
CALIB. REF: XF13008A XF13008A XF13008A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
HMX	ND	4.00	3.43	86	4.00	4.02	100	16	70-130	30
RDX	ND	4.00	3.13	78	4.00	3.70	92	17	60-130	30
1,3,5-Trinitrobenzene	ND	4.00	3.81	95	4.00	4.55	114	18	70-130	30
1,3-Dinitrobenzene	ND	4.00	3.36	84	4.00	4.05	101	19	70-130	30
Tetryl	ND	4.00	3.13	78	4.00	3.79	95	19	70-130	30
Nitrobenzene	ND	4.00	3.36	84	4.00	3.78	95	12	70-130	30
2,4,6-Trinitrotoluene	ND	4.00	3.05	76	4.00	3.71	93	20	70-130	30
4-Amino-2,6-Dinitrotoluene	ND	4.00	3.94	98	4.00	4.74	119	18	70-130	30
2-Amino-4,6-Dinitrotoluene	ND	4.00	3.42	85	4.00	4.21	105	21	70-130	30
2,6-Dinitrotoluene	ND	4.00	3.71	93	4.00	4.53	113	20	70-130	30
2,4-Dinitrotoluene	ND	4.00	3.88	97	4.00	4.72	118	19	70-130	30
2-Nitrotoluene	ND	4.00	3.69	92	4.00	4.06	102	10	70-130	30
3-Nitrotoluene	ND	4.00	3.41	85	4.00	4.01	100	16	70-130	30
4-Nitrotoluene	ND	4.00	3.50	87	4.00	4.12	103	16	70-130	30
2,4-Diamino-6-nitrotoluene	ND	4.00	1.62J	41	4.00	1.95J	49	18	20-130	30
2,6-Diamino-4-nitrotoluene	ND	4.00	1.23J	31	4.00	1.56J	39	24	20-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dinitrobenzene	4.00	3.61	90	4.00	4.45	111	65-135

METHOD 8332  
Nitroglycerin and PETN

```
=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 15:12
Sample ID    : FB-060512                        Date Analyzed: 06/15/12 12:49
Lab Samp ID  : F037-01                          Dilution Factor: 1
Lab File ID  : PF15006A                         Matrix          : WATER
Ext Btch ID  : EXP004W                          % Moisture     : NA
Calib. Ref.  : PF15002A                         Instrument ID   : T-017
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
NITROGLYCERIN	ND	250	120
PETN	ND	250	120

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	514	500.0	103	65-135

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332  
Nitroglycerin and PETN

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F037                           Date Extracted: 06/11/12 15:12
Sample ID    : MBLK1W                           Date Analyzed: 06/15/12 12:08
Lab Samp ID  : EXF004WB                         Dilution Factor: 1
Lab File ID  : PF15003A                        Matrix          : WATER
Ext Btch ID  : EXF004W                         % Moisture      : NA
Calib. Ref.  : PF15002A                       Instrument ID   : T-017
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
NITROGLYCERIN	ND	250	120
PETN	ND	250	120

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	509	500.0	102	65-135

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: Method 8332

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: EXF004WB EXF004WL EXF004WC  
LAB FILE ID: PF15003A PF15004A PF15005A  
DATE EXTRACTED: 06/11/1215:12 06/11/1215:12 06/11/1215:12 DATE COLLECTED: NA  
DATE ANALYZED: 06/15/1212:08 06/15/1212:22 06/15/1212:36 DATE RECEIVED: 06/11/12  
PREP. BATCH: EXF004W EXF004W EXF004W  
CALIB. REF: PF15002A PF15002A PF15002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Nitroglycerin	ND	1870	1830	98	1870	1840	98	0	50-150	30
PETN	ND	1870	1810	97	1870	1820	97	0	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dinitrobenzene	500	504	101	500	504	101	65-135

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.     : 12F037                           Date Extracted: 06/12/12 11:08
Sample ID   : FB-060512                        Date Analyzed: 06/14/12 14:06
Lab Samp ID : F037-01                          Dilution Factor: 1
Lab File ID : 98F07021                        Matrix          : WATER
Ext Btch ID : IMF024W                         % Moisture     : NA
Calib. Ref. : 98F07016                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	0.0270J	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	0.0263J	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.000954J	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.    : 12F037                           Date Extracted: 06/12/12 11:08
Sample ID  : MBLK1W                            Date Analyzed: 06/14/12 13:52
Lab Samp ID: IMF024WB                         Dilution Factor: 1
Lab File ID: 98F07018                        Matrix          : WATER
Ext Btch ID: IMF024W                          % Moisture     : NA
Calib. Ref.: 98F07016                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F037  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMF024WB IMF024WL IMF024WC  
LAB FILE ID: 98F07018 98F07019 98F07020  
DATIME EXTRACTD: 06/12/1211:08 06/12/1211:08 06/12/1211:08 DATE COLLECTED: NA  
DATIME ANALYZD: 06/14/1213:52 06/14/1213:57 06/14/1214:02 DATE RECEIVED: 06/12/12  
PREP. BATCH: IMF024W IMF024W IMF024W  
CALIB. REF: 98F07016 98F07016 98F07016

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.54	101	2.50	2.52	101	1	80-120	20
Antimony	ND	0.0250	0.0264	106	0.0250	0.0257	103	3	80-120	20
Arsenic	ND	0.0250	0.0255	102	0.0250	0.0255	102	0	80-120	20
Barium	ND	0.0250	0.0265	106	0.0250	0.0260	104	2	80-120	20
Beryllium	ND	0.0250	0.0265	106	0.0250	0.0260	104	2	80-120	20
Boron	ND	0.0250	0.0271	108	0.0250	0.0266	106	2	80-120	20
Cadmium	ND	0.0250	0.0260	104	0.0250	0.0254	101	3	80-120	20
Calcium	ND	2.50	2.71	108	2.50	2.71	108	0	80-120	20
Chromium	ND	0.0250	0.0256	103	0.0250	0.0249	100	3	80-120	20
Cobalt	ND	0.0250	0.0255	102	0.0250	0.0253	101	1	80-120	20
Copper	ND	0.0250	0.0262	105	0.0250	0.0255	102	3	80-120	20
Iron	ND	2.50	2.71	108	2.50	2.70	108	0	80-120	20
Lead	ND	0.0250	0.0263	105	0.0250	0.0261	105	1	80-120	20
Magnesium	ND	2.50	2.55	102	2.50	2.49	99	2	80-120	20
Manganese	ND	0.0250	0.0260	104	0.0250	0.0255	102	2	80-120	20
Molybdenum	ND	0.0250	0.0253	101	0.0250	0.0248	99	2	80-120	20
Nickel	ND	0.0250	0.0258	103	0.0250	0.0253	101	2	80-120	20
Potassium	ND	2.50	2.64	106	2.50	2.60	104	2	80-120	20
Selenium	ND	0.0250	0.0252	101	0.0250	0.0254	102	1	80-120	20
Silver	ND	0.0250	0.0264	106	0.0250	0.0256	102	3	80-120	20
Sodium	ND	2.50	2.67	107	2.50	2.64	106	1	80-120	20
Strontium	ND	0.0250	0.0253	101	0.0250	0.0250	100	1	80-120	20
Thallium	ND	0.0250	0.0254	101	0.0250	0.0247	99	3	80-120	20
Tin	ND	0.0250	0.0263	105	0.0250	0.0257	103	2	80-120	20
Titanium	ND	0.0250	0.0258	103	0.0250	0.0252	101	2	80-120	20
Vanadium	ND	0.0250	0.0253	101	0.0250	0.0247	99	2	80-120	20
Zinc	ND	0.0500	0.0523	105	0.0500	0.0521	104	0	80-120	20
Lithium	ND	0.0250	0.0250	100	0.0250	0.0251	100	0	80-120	20
Phosphorus	ND	0.250	0.244	98	0.250	0.242	97	1	80-120	20
Zirconium	ND	0.0250	0.0251	101	0.0250	0.0257	103	2	80-120	20

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/04/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12F037                            Date Extracted: 06/12/12 11:50
Sample ID: SL-545-SA5C-SB-0.0-0.5             Date Analyzed: 06/14/12 15:38
Lab Samp ID: F037-02                           Dilution Factor: 0.980
Lab File ID: 98F07041                          Matrix          : SOIL
Ext Btch ID: IMF023S                            % Moisture     : 12.2
Calib. Ref.: 98F07037                          Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13600	112	13.4
Antimony	0.236J	0.558	0.112
Arsenic	4.58	0.558	0.223
Barium	106	0.558	0.223
Beryllium	0.607	0.558	0.0558
Boron	ND	5.58	2.79
Cadmium	0.198J	0.558	0.0558
Calcium	3400	22.3	11.2
Chromium	18.7	0.558	0.223
Cobalt	6.57	0.558	0.0558
Copper	8.81	0.558	0.223
Iron	20500	112	11.2
Lead	6.58	0.558	0.112
Magnesium	4410	11.2	5.58
Manganese	265	0.558	0.279
Molybdenum	0.683	0.558	0.0558
Nickel	11.4	0.558	0.223
Potassium	2220	112	33.5
Selenium	ND	0.558	0.223
Silver	ND	0.558	0.0558
Sodium	198	112	55.8
Strontium	27.3	0.558	0.279
Thallium	0.254J	0.446	0.0558
Tin	ND	11.2	5.58
Titanium	878	1.12	0.558
Vanadium	35.0	0.558	0.0558
Zinc	49.2	5.58	1.67
Lithium	19.8	2.23	1.12
Phosphorus	247	13.4	6.70
Zirconium	ND	5.58	2.79

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/04/12
Project    : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12F037                           Date Extracted: 06/12/12 11:50
Sample ID  : SL-545-SA5C-SB-4.0-5.0          Date Analyzed: 06/14/12 15:42
Lab Samp ID: F037-03                           Dilution Factor: 0.948
Lab File ID: 98F07042                          Matrix          : SOIL
Ext Btch ID: IMF023S                            % Moisture     : 12.7
Calib. Ref.: 98F07037                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19500	109	13.0
Antimony	0.259J	0.543	0.109
Arsenic	5.22	0.543	0.217
Barium	148	0.543	0.217
Beryllium	0.839	0.543	0.0543
Boron	ND	5.43	2.71
Cadmium	0.159J	0.543	0.0543
Calcium	2930	21.7	10.9
Chromium	22.8	0.543	0.217
Cobalt	7.66	0.543	0.0543
Copper	8.20	0.543	0.217
Iron	23800	109	10.9
Lead	7.97	0.543	0.109
Magnesium	4750	10.9	5.43
Manganese	269	0.543	0.271
Molybdenum	0.728	0.543	0.0543
Nickel	12.4	0.543	0.217
Potassium	1740	109	32.6
Selenium	ND	0.543	0.217
Silver	0.0559J	0.543	0.0543
Sodium	161	109	54.3
Strontium	30.5	0.543	0.271
Thallium	0.273J	0.434	0.0543
Tin	ND	10.9	5.43
Titanium	886	1.09	0.543
Vanadium	43.1	0.543	0.0543
Zinc	45.9	5.43	1.63
Lithium	19.2	2.17	1.09
Phosphorus	124	13.0	6.52
Zirconium	ND	5.43	2.71

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/04/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.     : 12F037                           Date Extracted: 06/12/12 11:50
Sample ID   : SL-545-SA5C-SB-9.0-10.0         Date Analyzed: 06/14/12 15:47
Lab Samp ID : F037-05                           Dilution Factor: 0.985
Lab File ID : 98F07043                          Matrix          : SOIL
Ext Btch ID : IMF023S                            % Moisture     : 12.2
Calib. Ref. : 98F07037                          Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13700	112	13.5
Antimony	0.240J	0.561	0.112
Arsenic	5.21	0.561	0.224
Barium	61.0	0.561	0.224
Beryllium	0.527J	0.561	0.0561
Boron	ND	5.61	2.80
Cadmium	0.0997J	0.561	0.0561
Calcium	2340	22.4	11.2
Chromium	15.5	0.561	0.224
Cobalt	7.50	0.561	0.0561
Copper	8.09	0.561	0.224
Iron	18100	112	11.2
Lead	6.01	0.561	0.112
Magnesium	3200	11.2	5.61
Manganese	164	0.561	0.280
Molybdenum	0.371J	0.561	0.0561
Nickel	7.79	0.561	0.224
Potassium	1270	112	33.7
Selenium	ND	0.561	0.224
Silver	ND	0.561	0.0561
Sodium	112	112	56.1
Strontium	21.2	0.561	0.280
Thallium	0.192J	0.449	0.0561
Tin	ND	11.2	5.61
Titanium	697	1.12	0.561
Vanadium	30.7	0.561	0.0561
Zinc	33.9	5.61	1.68
Lithium	14.0	2.24	1.12
Phosphorus	114	13.5	6.73
Zirconium	ND	5.61	2.80

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12F037                           Date Extracted: 06/12/12 11:50
Sample ID: SL-543-SA5C-SB-0.0-0.5           Date Analyzed: 06/14/12 15:52
Lab Samp ID: F037-07                         Dilution Factor: 0.952
Lab File ID: 98F07044                       Matrix          : SOIL
Ext Btch ID: IMF023S                         % Moisture     : 9.7
Calib. Ref.: 98F07037                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9080	105	12.7
Antimony	0.375J	0.527	0.105
Arsenic	3.47	0.527	0.211
Barium	77.2	0.527	0.211
Beryllium	0.549	0.527	0.0527
Boron	ND	5.27	2.64
Cadmium	0.163J	0.527	0.0527
Calcium	3700	21.1	10.5
Chromium	15.7	0.527	0.211
Cobalt	7.75	0.527	0.0527
Copper	8.87	0.527	0.211
Iron	17000	105	10.5
Lead	4.59	0.527	0.105
Magnesium	4070	10.5	5.27
Manganese	227	0.527	0.264
Molybdenum	0.251J	0.527	0.0527
Nickel	12.1	0.527	0.211
Potassium	1750	105	31.6
Selenium	ND	0.527	0.211
Silver	ND	0.527	0.0527
Sodium	121	105	52.7
Strontium	27.0	0.527	0.264
Thallium	0.275J	0.422	0.0527
Tin	ND	10.5	5.27
Titanium	775	1.05	0.527
Vanadium	26.8	0.527	0.0527
Zinc	52.2	5.27	1.58
Lithium	21.6	2.11	1.05
Phosphorus	441	12.7	6.33
Zirconium	ND	5.27	2.64

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/05/12
Project    : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12F037                           Date Extracted: 06/12/12 11:50
Sample ID: SL-543-SA5C-SB-3.5-4.5           Date Analyzed: 06/14/12 15:56
Lab Samp ID: F037-08                         Dilution Factor: 0.980
Lab File ID: 98F07045                        Matrix          : SOIL
Ext Btch ID: IMF023S                          % Moisture     : 6.3
Calib. Ref.: 98F07037                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10200	105	12.6
Antimony	0.253J	0.523	0.105
Arsenic	4.78	0.523	0.209
Barium	75.5	0.523	0.209
Beryllium	0.385J	0.523	0.0523
Boron	ND	5.23	2.61
Cadmium	0.174J	0.523	0.0523
Calcium	4260	20.9	10.5
Chromium	16.6	0.523	0.209
Cobalt	5.53	0.523	0.0523
Copper	6.83	0.523	0.209
Iron	21100	105	10.5
Lead	3.25	0.523	0.105
Magnesium	4750	10.5	5.23
Manganese	271	0.523	0.261
Molybdenum	0.382J	0.523	0.0523
Nickel	12.2	0.523	0.209
Potassium	2390	105	31.4
Selenium	ND	0.523	0.209
Silver	ND	0.523	0.0523
Sodium	140	105	52.3
Strontium	31.0	0.523	0.261
Thallium	0.264J	0.418	0.0523
Tin	ND	10.5	5.23
Titanium	955	1.05	0.523
Vanadium	34.8	0.523	0.0523
Zinc	55.5	5.23	1.57
Lithium	25.0	2.09	1.05
Phosphorus	827	12.6	6.28
Zirconium	ND	5.23	2.61

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/05/12
Project    : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12F037                           Date Extracted: 06/12/12 11:50
Sample ID: SL-552-SA5C-SB-0.0-0.5           Date Analyzed: 06/14/12 16:01
Lab Samp ID: F037-10                         Dilution Factor: 0.976
Lab File ID: 98F07046                       Matrix          : SOIL
Ext Btch ID: IMF023S                         % Moisture     : 5.8
Calib. Ref.: 98F07037                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9990	104	12.4
Antimony	0.293J	0.518	0.104
Arsenic	4.03	0.518	0.207
Barium	87.1	0.518	0.207
Beryllium	0.444J	0.518	0.0518
Boron	ND	5.18	2.59
Cadmium	0.368J	0.518	0.0518
Calcium	5410	20.7	10.4
Chromium	16.6	0.518	0.207
Cobalt	5.88	0.518	0.0518
Copper	10.9	0.518	0.207
Iron	18900	104	10.4
Lead	8.44	0.518	0.104
Magnesium	4500	10.4	5.18
Manganese	253	0.518	0.259
Molybdenum	3.10	0.518	0.0518
Nickel	12.3	0.518	0.207
Potassium	2530	104	31.1
Selenium	ND	0.518	0.207
Silver	ND	0.518	0.0518
Sodium	116	104	51.8
Strontium	27.3	0.518	0.259
Thallium	0.221J	0.414	0.0518
Tin	ND	10.4	5.18
Titanium	836	1.04	0.518
Vanadium	31.1	0.518	0.0518
Zinc	92.6	5.18	1.55
Lithium	20.8	2.07	1.04
Phosphorus	521	12.4	6.22
Zirconium	ND	5.18	2.59

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/05/12
Project    : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12F037                           Date Extracted: 06/12/12 11:50
Sample ID: SL-561-SA5C-SB-0.0-0.5           Date Analyzed: 06/14/12 16:05
Lab Samp ID: F037-11                         Dilution Factor: 0.976
Lab File ID: 98F07047                        Matrix          : SOIL
Ext Btch ID: IMF023S                          % Moisture     : 11.8
Calib. Ref.: 98F07037                        Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	22200	111	13.3
Antimony	0.239J	0.553	0.111
Arsenic	5.05	0.553	0.221
Barium	176	0.553	0.221
Beryllium	0.944	0.553	0.0553
Boron	ND	5.53	2.77
Cadmium	0.239J	0.553	0.0553
Calcium	4530	22.1	11.1
Chromium	25.5	0.553	0.221
Cobalt	8.02	0.553	0.0553
Copper	9.79	0.553	0.221
Iron	26300	111	11.1
Lead	8.75	0.553	0.111
Magnesium	5450	11.1	5.53
Manganese	278	0.553	0.277
Molybdenum	0.369J	0.553	0.0553
Nickel	15.3	0.553	0.221
Potassium	2320	111	33.2
Selenium	ND	0.553	0.221
Silver	0.0666J	0.553	0.0553
Sodium	315	111	55.3
Strontium	42.2	0.553	0.277
Thallium	0.307J	0.443	0.0553
Tin	ND	11.1	5.53
Titanium	676	1.11	0.553
Vanadium	49.2	0.553	0.0553
Zinc	51.3	5.53	1.66
Lithium	19.3	2.21	1.11
Phosphorus	115	13.3	6.64
Zirconium	ND	5.53	2.77

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12F037                           Date Extracted: 06/12/12 11:50
Sample ID:  SL-561-SA5C-SB-5.5-6.5           Date Analyzed: 06/14/12 16:35
Lab Samp ID: F037-12                          Dilution Factor: 0.957
Lab File ID: 98F07051                         Matrix          : SOIL
Ext Btch ID: IMF023S                          % Moisture     : 5.6
Calib. Ref.: 98F07049                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8660	101	12.2
Antimony	0.222J	0.507	0.101
Arsenic	4.44	0.507	0.203
Barium	73.6	0.507	0.203
Beryllium	0.441J	0.507	0.0507
Boron	ND	5.07	2.53
Cadmium	0.161J	0.507	0.0507
Calcium	4570	20.3	10.1
Chromium	15.8	0.507	0.203
Cobalt	4.81	0.507	0.0507
Copper	8.77	0.507	0.203
Iron	17100	101	10.1
Lead	4.11	0.507	0.101
Magnesium	3880	10.1	5.07
Manganese	230	0.507	0.253
Molybdenum	0.243J	0.507	0.0507
Nickel	11.7	0.507	0.203
Potassium	1630	101	30.4
Selenium	ND	0.507	0.203
Silver	ND	0.507	0.0507
Sodium	280	101	50.7
Strontium	23.0	0.507	0.253
Thallium	0.228J	0.406	0.0507
Tin	ND	10.1	5.07
Titanium	862	1.01	0.507
Vanadium	28.8	0.507	0.0507
Zinc	48.5	5.07	1.52
Lithium	22.8	2.03	1.01
Phosphorus	371	12.2	6.08
Zirconium	ND	5.07	2.53

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/05/12
Project    : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12F037                           Date Extracted: 06/12/12 11:50
Sample ID  : SL-615-SA5C-SB-4.0-5.0          Date Analyzed: 06/14/12 16:39
Lab Samp ID: F037-14                           Dilution Factor: 0.952
Lab File ID: 98F07052                          Matrix          : SOIL
Ext Btch ID: IMF023S                            % Moisture     : 13.4
Calib. Ref.: 98F07049                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14800	110	13.2
Antimony	0.246J	0.550	0.110
Arsenic	6.05	0.550	0.220
Barium	115	0.550	0.220
Beryllium	1.02	0.550	0.0550
Boron	ND	5.50	2.75
Cadmium	0.169J	0.550	0.0550
Calcium	3830	22.0	11.0
Chromium	20.1	0.550	0.220
Cobalt	10.8	0.550	0.0550
Copper	8.56	0.550	0.220
Iron	25300	110	11.0
Lead	8.69	0.550	0.110
Magnesium	4040	11.0	5.50
Manganese	308	0.550	0.275
Molybdenum	0.542J	0.550	0.0550
Nickel	10.5	0.550	0.220
Potassium	1780	110	33.0
Selenium	ND	0.550	0.220
Silver	0.0717J	0.550	0.0550
Sodium	303	110	55.0
Strontium	30.6	0.550	0.275
Thallium	0.265J	0.440	0.0550
Tin	ND	11.0	5.50
Titanium	901	1.10	0.550
Vanadium	41.5	0.550	0.0550
Zinc	41.0	5.50	1.65
Lithium	17.1	2.20	1.10
Phosphorus	143	13.2	6.60
Zirconium	ND	5.50	2.75

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/05/12
Project    : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12F037                           Date Extracted: 06/12/12 11:50
Sample ID  : SL-615-SA5C-SB-9.0-10.0         Date Analyzed: 06/14/12 16:44
Lab Samp ID: F037-16                           Dilution Factor: 1.00
Lab File ID: 98F07053                          Matrix          : SOIL
Ext Btch ID: IMF023S                            % Moisture     : 9.2
Calib. Ref.: 98F07049                          Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11900	110	13.2
Antimony	0.256J	0.551	0.110
Arsenic	4.37	0.551	0.220
Barium	75.8	0.551	0.220
Beryllium	0.614	0.551	0.0551
Boron	ND	5.51	2.75
Cadmium	0.119J	0.551	0.0551
Calcium	3600	22.0	11.0
Chromium	19.6	0.551	0.220
Cobalt	5.46	0.551	0.0551
Copper	8.21	0.551	0.220
Iron	19900	110	11.0
Lead	4.86	0.551	0.110
Magnesium	3600	11.0	5.51
Manganese	199	0.551	0.275
Molybdenum	0.396J	0.551	0.0551
Nickel	9.60	0.551	0.220
Potassium	1720	110	33.0
Selenium	ND	0.551	0.220
Silver	0.142J	0.551	0.0551
Sodium	361	110	55.1
Strontium	23.0	0.551	0.275
Thallium	0.286J	0.441	0.0551
Tin	ND	11.0	5.51
Titanium	688	1.10	0.551
Vanadium	31.5	0.551	0.0551
Zinc	41.5	5.51	1.65
Lithium	19.1	2.20	1.10
Phosphorus	180	13.2	6.61
Zirconium	ND	5.51	2.75

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12F037                            Date Extracted: 06/12/12 11:50
Sample ID:  SL-539-SA5C-SB-0.0-0.5           Date Analyzed: 06/14/12 16:49
Lab Samp ID: F037-18                          Dilution Factor: 0.976
Lab File ID: 98F07054                         Matrix          : SOIL
Ext Btch ID: IMF023S                           % Moisture     : 11.7
Calib. Ref.: 98F07049                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15700	111	13.3
Antimony	0.205J	0.553	0.111
Arsenic	4.19	0.553	0.221
Barium	117	0.553	0.221
Beryllium	0.717	0.553	0.0553
Boron	ND	5.53	2.76
Cadmium	0.129J	0.553	0.0553
Calcium	2750	22.1	11.1
Chromium	17.7	0.553	0.221
Cobalt	6.84	0.553	0.0553
Copper	6.29	0.553	0.221
Iron	20300	111	11.1
Lead	6.46	0.553	0.111
Magnesium	3490	11.1	5.53
Manganese	201	0.553	0.276
Molybdenum	0.339J	0.553	0.0553
Nickel	8.80	0.553	0.221
Potassium	1490	111	33.2
Selenium	ND	0.553	0.221
Silver	0.0689J	0.553	0.0553
Sodium	136	111	55.3
Strontium	26.1	0.553	0.276
Thallium	0.241J	0.442	0.0553
Tin	ND	11.1	5.53
Titanium	759	1.11	0.553
Vanadium	34.7	0.553	0.0553
Zinc	34.5	5.53	1.66
Lithium	13.9	2.21	1.11
Phosphorus	70.7	13.3	6.63
Zirconium	ND	5.53	2.76

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/05/12
Project      : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.     : 12F037                           Date Extracted: 06/12/12 11:50
Sample ID   : SL-539-SA5C-SB-6.0-7.0          Date Analyzed: 06/14/12 16:53
Lab Samp ID : F037-19                          Dilution Factor: 0.971
Lab File ID : 98F07055                         Matrix          : SOIL
Ext Btch ID : IMF023S                          % Moisture     : 9.5
Calib. Ref. : 98F07049                         Instrument ID  : T-198
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13400	107	12.9
Antimony	0.267J	0.536	0.107
Arsenic	6.12	0.536	0.215
Barium	114	0.536	0.215
Beryllium	0.857	0.536	0.0536
Boron	ND	5.36	2.68
Cadmium	0.236J	0.536	0.0536
Calcium	5530	21.5	10.7
Chromium	26.1	0.536	0.215
Cobalt	8.15	0.536	0.0536
Copper	17.7	0.536	0.215
Iron	25600	107	10.7
Lead	7.74	0.536	0.107
Magnesium	6130	10.7	5.36
Manganese	292	0.536	0.268
Molybdenum	0.509J	0.536	0.0536
Nickel	19.5	0.536	0.215
Potassium	2110	107	32.2
Selenium	ND	0.536	0.215
Silver	0.283J	0.536	0.0536
Sodium	368	107	53.6
Strontium	37.3	0.536	0.268
Thallium	0.288J	0.429	0.0536
Tin	ND	10.7	5.36
Titanium	792	1.07	0.536
Vanadium	39.7	0.536	0.0536
Zinc	64.9	5.36	1.61
Lithium	31.4	2.15	1.07
Phosphorus	521	12.9	6.44
Zirconium	ND	5.36	2.68

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/05/12
Project     : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12F037                           Date Extracted: 06/12/12 11:50
Sample ID:  SL-551-SA5C-SB-0.0-0.5           Date Analyzed: 06/14/12 16:58
Lab Samp ID: F037-21                         Dilution Factor: 0.990
Lab File ID: 98F07056                       Matrix          : SOIL
Ext Btch ID: IMF023S                         % Moisture     : 13.8
Calib. Ref.: 98F07049                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13900	115	13.8
Antimony	0.213J	0.574	0.115
Arsenic	4.27	0.574	0.230
Barium	114	0.574	0.230
Beryllium	0.683	0.574	0.0574
Boron	ND	5.74	2.87
Cadmium	0.159J	0.574	0.0574
Calcium	4570	23.0	11.5
Chromium	17.2	0.574	0.230
Cobalt	6.02	0.574	0.0574
Copper	7.34	0.574	0.230
Iron	19900	115	11.5
Lead	6.60	0.574	0.115
Magnesium	3510	11.5	5.74
Manganese	156	0.574	0.287
Molybdenum	0.383J	0.574	0.0574
Nickel	8.52	0.574	0.230
Potassium	1390	115	34.5
Selenium	ND	0.574	0.230
Silver	ND	0.574	0.0574
Sodium	190	115	57.4
Strontium	32.3	0.574	0.287
Thallium	0.225J	0.459	0.0574
Tin	ND	11.5	5.74
Titanium	699	1.15	0.574
Vanadium	34.2	0.574	0.0574
Zinc	35.8	5.74	1.72
Lithium	14.7	2.30	1.15
Phosphorus	97.9	13.8	6.89
Zirconium	ND	5.74	2.87

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/05/12
Project    : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12F037                           Date Extracted: 06/12/12 11:50
Sample ID: SL-551-SA5C-SB-4.0-5.0           Date Analyzed: 06/14/12 17:02
Lab Samp ID: F037-22                         Dilution Factor: 0.948
Lab File ID: 98F07057                       Matrix          : SOIL
Ext Btch ID: IMF023S                        % Moisture     : 10.6
Calib. Ref.: 98F07049                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11500	106	12.7
Antimony	0.211J	0.530	0.106
Arsenic	3.93	0.530	0.212
Barium	98.9	0.530	0.212
Beryllium	0.572	0.530	0.0530
Boron	ND	5.30	2.65
Cadmium	0.220J	0.530	0.0530
Calcium	3200	21.2	10.6
Chromium	15.5	0.530	0.212
Cobalt	6.78	0.530	0.0530
Copper	6.72	0.530	0.212
Iron	19900	106	10.6
Lead	5.11	0.530	0.106
Magnesium	4060	10.6	5.30
Manganese	248	0.530	0.265
Molybdenum	0.379J	0.530	0.0530
Nickel	13.1	0.530	0.212
Potassium	1860	106	31.8
Selenium	ND	0.530	0.212
Silver	ND	0.530	0.0530
Sodium	143	106	53.0
Strontium	27.5	0.530	0.265
Thallium	0.233J	0.424	0.0530
Tin	ND	10.6	5.30
Titanium	802	1.06	0.530
Vanadium	30.6	0.530	0.0530
Zinc	46.4	5.30	1.59
Lithium	20.6	2.12	1.06
Phosphorus	224	12.7	6.36
Zirconium	ND	5.30	2.65

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.    : 12F037                            Date Extracted: 06/12/12 11:50
Sample ID   : MBLK1S                           Date Analyzed: 06/14/12 14:34
Lab Samp ID: IMF023SB                          Dilution Factor: 1
Lab File ID: 98F07027                          Matrix          : SOIL
Ext Btch ID: IMF023S                           % Moisture     : NA
Calib. Ref.: 98F07025                          Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F037  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF023SB IMF023SL IMF023SC  
LAB FILE ID: 98F07027 98F07028 98F07029  
DATIME EXTRACTD: 06/12/1211:50 06/12/1211:50 06/12/1211:50 DATE COLLECTED: NA  
DATIME ANALYZD: 06/14/1214:34 06/14/1214:39 06/14/1214:43 DATE RECEIVED: 06/12/12  
PREP. BATCH: IMF023S IMF023S IMF023S  
CALIB. REF: 98F07025 98F07025 98F07025

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2450	98	2500	2350	94	4	80-120	20
Antimony	ND	25.0	25.2	101	25.0	24.9	100	1	80-120	20
Arsenic	ND	25.0	24.3	97	25.0	23.7	95	2	80-120	20
Barium	ND	25.0	25.4	102	25.0	25.0	100	2	80-120	20
Beryllium	ND	25.0	26.5	106	25.0	24.9	100	6	80-120	20
Boron	ND	25.0	27.1	108	25.0	25.4	101	7	80-120	20
Cadmium	ND	25.0	24.8	99	25.0	24.3	97	2	80-120	20
Calcium	ND	2500	2620	105	2500	2610	104	1	80-120	20
Chromium	ND	25.0	24.6	99	25.0	23.9	96	3	80-120	20
Cobalt	ND	25.0	25.3	101	25.0	23.9	95	6	80-120	20
Copper	ND	25.0	24.5	98	25.0	23.6	95	4	80-120	20
Iron	ND	2500	2590	103	2500	2570	103	1	80-120	20
Lead	ND	25.0	25.0	100	25.0	24.7	99	1	80-120	20
Magnesium	ND	2500	2420	97	2500	2340	94	3	80-120	20
Manganese	ND	25.0	25.7	103	25.0	24.5	98	5	80-120	20
Molybdenum	ND	25.0	24.4	98	25.0	23.9	96	2	80-120	20
Nickel	ND	25.0	24.5	98	25.0	23.8	95	3	80-120	20
Potassium	ND	2500	2640	106	2500	2570	103	3	80-120	20
Selenium	ND	25.0	24.2	97	25.0	23.5	94	3	80-120	20
Silver	ND	25.0	25.0	100	25.0	24.0	96	4	80-120	20
Sodium	ND	2500	2570	103	2500	2530	101	1	80-120	20
Strontium	ND	25.0	24.9	100	25.0	24.0	96	4	80-120	20
Thallium	ND	25.0	25.2	101	25.0	24.5	98	3	80-120	20
Tin	ND	25.0	27.4	110	25.0	26.4	105	4	80-120	20
Titanium	ND	25.0	25.1	100	25.0	24.0	96	4	80-120	20
Vanadium	ND	25.0	24.4	98	25.0	23.6	94	4	80-120	20
Zinc	ND	50.0	47.5	95	50.0	46.5	93	2	80-120	20
Lithium	ND	25.0	26.1	105	25.0	24.9	100	5	80-120	20
Phosphorus	ND	250	233	93	250	225	90	3	80-120	20
Zirconium	ND	25.0	24.7	99	25.0	24.2	97	2	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F037  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 13.8  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-546-SA5C-SB-4.0-5.0  
CONTROL NO.: F044-02 F044-02A  
LAB FILE ID: 98F07069 98F07032  
DATIME EXTRACTD: 06/12/1211:50 06/12/1211:50 DATE COLLECTED: 06/06/12  
DATIME ANALYZD: 06/14/1217:57 06/14/1214:57 DATE RECEIVED: 06/06/12  
PREP. BATCH: IMF023S IMF023S  
CALIB. REF: 98F07061 98F07025

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	18300	2890	17800	-15*	75-125
Antimony	0.216J	28.9	29.1	100	75-125
Arsenic	4.92	28.9	31.0	90	75-125
Barium	151	28.9	112	-134*	75-125
Beryllium	0.809	28.9	28.6	96	75-125
Boron	ND	28.9	28.9	100	75-125
Cadmium	0.141J	28.9	28.5	98	75-125
Calcium	3280	2890	5980	93	75-125
Chromium	21.0	28.9	43.9	79	75-125
Cobalt	5.40	28.9	30.9	88	75-125
Copper	7.13	28.9	33.2	90	75-125
Iron	23300	2890	22800	-15*	75-125
Lead	6.99	28.9	33.0	90	75-125
Magnesium	4470	2890	6030	54*	75-125
# Manganese	197	144	329	92	75-125
Molybdenum	0.402J	28.9	28.7	98	75-125
Nickel	11.3	28.9	34.9	82	75-125
Potassium	1720	2890	4310	90	75-125
Selenium	ND	28.9	26.9	93	75-125
Silver	0.0624J	28.9	27.6	95	75-125
Sodium	156	2890	2980	98	75-125
Strontium	33.4	28.9	54.8	74*	75-125
Thallium	0.263J	28.9	28.5	98	75-125
Tin	ND	28.9	32.2	112	75-125
Titanium	768	28.9	797	102	75-125
Vanadium	41.3	28.9	60.5	66*	75-125
Zinc	43.0	57.7	89.3	80	75-125
Lithium	16.5	28.9	46.2	103	75-125
Phosphorus	95.6	289	379	98	75-125
Zirconium	ND	28.9	29.9	104	75-125

# F044-02A : Analyzed at DF 4.98 on 06/14/12 19:24 | File ID 98F07081

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 13.8  
DILUTION FACTOR: 0.995 4.98  
SAMPLE ID: SL-546-SA5C-SB SL-546-SA5C-SB  
EMAX SAMP ID: F044-02 F044-02J  
LAB FILE ID: 98F07069 98F07070  
DATE EXTRACTED: 06/12/1211:50 06/12/1211:50 DATE COLLECTED: 06/06/12  
DATE ANALYZED: 06/14/1217:57 06/14/1218:02 DATE RECEIVED: 06/06/12  
PREP. BATCH: IMF023S IMF023S  
CALIB. REF: 98F07061 98F07061

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	18300	19600	7	10
Antimony	0.216J	ND	NA	10
Arsenic	4.92	5.06	3	10
Barium	151	152	1	10
Beryllium	0.809	0.811J	NA	10
Boron	ND	ND	0	10
Cadmium	0.141J	ND	NA	10
Calcium	3280	3550	8	10
Chromium	21.0	22.8	8	10
Cobalt	5.40	5.99	11*	10
Copper	7.13	7.92	11*	10
Iron	23300	25300	9	10
Lead	6.99	7.09	1	10
Magnesium	4470	4860	9	10
# Manganese	197	207	5	10
Molybdenum	0.402J	0.400J	NA	10
Nickel	11.3	12.7	12*	10
Potassium	1720	1860	8	10
Selenium	ND	ND	0	10
Silver	0.0624J	ND	NA	10
Sodium	156	ND	NA	10
Strontium	33.4	33.7	1	10
Thallium	0.263J	ND	NA	10
Tin	ND	ND	0	10
Titanium	768	798	4	10
Vanadium	41.3	44.4	8	10
Zinc	43.0	44.7	4	10
Lithium	16.5	16.6	1	10
Phosphorus	95.6	115	20*	10
Zirconium	ND	ND	0	10

# F044-02/J : Analyzed at DF 4.98/24.9 on 06/14/12 19:29/19:33 | File ID 98F07082/083

METHOD 7470A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F037  
=====

Matrix : WATER  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGF014WB	ND	1	NA	0.000500	0.000100	06/13/1214:21	06/13/1210:22	M47F008010	M47F008008	HGF014W	NA	06/13/12
LCS1W	HGF014WL	0.00488	1	NA	0.000500	0.000100	06/13/1214:23	06/13/1210:22	M47F008011	M47F008008	HGF014W	NA	06/13/12
LCD1W	HGF014WC	0.00487	1	NA	0.000500	0.000100	06/13/1214:25	06/13/1210:22	M47F008012	M47F008008	HGF014W	NA	06/13/12
FB-060512	F037-01	ND	1	NA	0.000500	0.000100	06/13/1214:47	06/13/1210:22	M47F008022	M47F008020	HGF014W	06/05/12	06/05/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F037  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGF014WB HGF014WL HGF014WC  
LAB FILE ID: M47F008010 M47F008011 M47F008012  
DATIME EXTRCTD: 06/13/1210:22 06/13/1210:22 06/13/1210:22 DATE COLLECTED: NA  
DATIME ANALYZD: 06/13/1214:21 06/13/1214:23 06/13/1214:25 DATE RECEIVED: 06/13/12  
PREP. BATCH: HGF014W HGF014W HGF014W  
CALIB. REF: M47F008008 M47F008008 M47F008008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00488	98	.005	.00487	97	0	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F037

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGF015SB	ND	1	NA	0.100	0.0500	06/14/1215:21	06/14/1211:30	M47F009010	M47F009008	HGF015S	NA	06/14/12
LCS1S	HGF015SL	0.812	1	NA	0.100	0.0500	06/14/1215:23	06/14/1211:30	M47F009011	M47F009008	HGF015S	NA	06/14/12
LCD1S	HGF015SC	0.808	1	NA	0.100	0.0500	06/14/1215:25	06/14/1211:30	M47F009012	M47F009008	HGF015S	NA	06/14/12
SL-545-SA5C-SB-0.0-0.5	F037-02	ND	1.00	12.2	0.114	0.0569	06/14/1215:48	06/14/1211:30	M47F009023	M47F009020	HGF015S	06/04/12	06/05/12
SL-545-SA5C-SB-4.0-5.0	F037-03	ND	0.985	12.7	0.113	0.0564	06/14/1215:51	06/14/1211:30	M47F009024	M47F009020	HGF015S	06/04/12	06/05/12
SL-545-SA5C-SB-9.0-10.0	F037-05	ND	0.998	12.2	0.114	0.0568	06/14/1215:53	06/14/1211:30	M47F009025	M47F009020	HGF015S	06/04/12	06/05/12
SL-543-SA5C-SB-0.0-0.5	F037-07	ND	0.993	9.7	0.110	0.0550	06/14/1215:55	06/14/1211:30	M47F009026	M47F009020	HGF015S	06/05/12	06/05/12
SL-543-SA5C-SB-3.5-4.5	F037-08	ND	1.00	6.3	0.107	0.0534	06/14/1215:57	06/14/1211:30	M47F009027	M47F009020	HGF015S	06/05/12	06/05/12
SL-552-SA5C-SB-0.0-0.5	F037-10	ND	1.00	5.8	0.106	0.0531	06/14/1215:59	06/14/1211:30	M47F009028	M47F009020	HGF015S	06/05/12	06/05/12
SL-561-SA5C-SB-0.0-0.5	F037-11	ND	0.990	11.8	0.112	0.0561	06/14/1216:01	06/14/1211:30	M47F009029	M47F009020	HGF015S	06/05/12	06/05/12
SL-561-SA5C-SB-5.5-6.5	F037-12	ND	1.00	5.6	0.106	0.0530	06/14/1216:03	06/14/1211:30	M47F009030	M47F009020	HGF015S	06/05/12	06/05/12
SL-615-SA5C-SB-4.0-5.0	F037-14	ND	0.990	13.4	0.114	0.0572	06/14/1216:06	06/14/1211:30	M47F009031	M47F009020	HGF015S	06/05/12	06/05/12
SL-615-SA5C-SB-9.0-10.0	F037-16	ND	1.00	9.2	0.110	0.0551	06/14/1216:12	06/14/1211:30	M47F009034	M47F009032	HGF015S	06/05/12	06/05/12
SL-539-SA5C-SB-0.0-0.5	F037-18	ND	0.990	11.7	0.112	0.0561	06/14/1216:14	06/14/1211:30	M47F009035	M47F009032	HGF015S	06/05/12	06/05/12
SL-539-SA5C-SB-6.0-7.0	F037-19	ND	0.997	9.5	0.110	0.0551	06/14/1216:16	06/14/1211:30	M47F009036	M47F009032	HGF015S	06/05/12	06/05/12
SL-551-SA5C-SB-0.0-0.5	F037-21	ND	0.990	13.8	0.115	0.0574	06/14/1216:19	06/14/1211:30	M47F009037	M47F009032	HGF015S	06/05/12	06/05/12
SL-551-SA5C-SB-4.0-5.0	F037-22	ND	0.988	10.6	0.111	0.0553	06/14/1216:21	06/14/1211:30	M47F009038	M47F009032	HGF015S	06/05/12	06/05/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F037  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF015SB HGF015SL HGF015SC  
LAB FILE ID: M47F009010 M47F009011 M47F009012  
DATIME EXTRCTD: 06/14/1211:30 06/14/1211:30 06/14/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/14/1215:21 06/14/1215:23 06/14/1215:25 DATE RECEIVED: 06/14/12  
PREP. BATCH: HGF015S HGF015S HGF015S  
CALIB. REF: M47F009008 M47F009008 M47F009008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.812	97	.833	.808	97	0	85-120	20

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F037  
=====

Matrix : WATER  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLF002WB	ND	1	NA	0.200	0.100	06/14/1218:24	NA	NF14033	NF14025	PLF002W	NA	NA
LCS1W	PLF002WL	1.03	1	NA	0.200	0.100	06/14/1218:38	NA	NF14034	NF14025	PLF002W	NA	NA
LCD1W	PLF002WC	1.09	1	NA	0.200	0.100	06/14/1218:52	NA	NF14035	NF14025	PLF002W	NA	NA
FB-060512	F037-01	ND	1	NA	0.200	0.100	06/14/1219:49	NA	NF14039	NF14036	PLF002W	06/05/1215:00	06/05/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLF002WB PLF002WL PLF002WC  
LAB FILE ID: NF14033 NF14034 NF14035  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1218:24 06/14/1218:38 06/14/1218:52 DATE RECEIVED: NA  
PREP. BATCH: PLF002W PLF002W PLF002W  
CALIB. REF: NF14025 NF14025 NF14025

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	1.03	103	1.00	1.09	109	6	85-115	20

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F037  
 =====

Matrix : SOIL  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLF002SB	ND	1	NA	5.00	2.50	06/14/1211:08	06/13/1214:23	NF14004	NF14003	PLF002S	NA	06/13/12
LCS1S	PLF002SL	27.1	1	NA	5.00	2.50	06/14/1211:23	06/13/1214:23	NF14005	NF14003	PLF002S	NA	06/13/12
LCD1S	PLF002SC	24.8	1	NA	5.00	2.50	06/14/1211:37	06/13/1214:23	NF14006	NF14003	PLF002S	NA	06/13/12
SL-615-SA5C-SB-4.0-5.0	F037-14	ND	1	13.4	5.77	2.89	06/14/1212:06	06/13/1214:23	NF14008	NF14003	PLF002S	06/05/1211:50	06/05/12
SL-615-SA5C-SB-9.0-10.0	F037-16	ND	1	9.2	5.51	2.75	06/14/1212:21	06/13/1214:23	NF14009	NF14003	PLF002S	06/05/1211:55	06/05/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLF002SB PLF002SL PLF002SC  
LAB FILE ID: NF14004 NF14005 NF14006  
DATE EXTRACTED: 06/13/1214:23 06/13/1214:23 06/13/1214:23 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1211:08 06/14/1211:23 06/14/1211:37 DATE RECEIVED: 06/13/12  
PREP. BATCH: PLF002S PLF002S PLF002S  
CALIB. REF: NF14003 NF14003 NF14003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	27.1	108	25.0	24.8	99	9	85-115	20

METHOD 7199  
 HEXAVALENT CHROMIUM

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F037

Matrix : WATER  
 Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCF007WB	ND	1	NA	0.200	0.100	06/06/1210:31	NA	IF06003	IF06001	HCF007W	NA	NA
MBLK1W	HCF007WQ	ND	1	NA	0.200	0.100	06/06/1210:41	NA	IF06004	IF06001	HCF007W	NA	NA
FB-060512	F037-01	ND	1	NA	0.200	0.100	06/06/1210:51	NA	IF06005	IF06001	HCF007W	06/05/1215:00	06/05/12
FB-060512	F037-01R	ND	1	NA	0.200	0.100	06/06/1211:02	NA	IF06006	IF06001	HCF007W	06/05/1215:00	06/05/12
LCS1W	HCF007WL	1.87	1	NA	0.200	0.100	06/06/1211:12	NA	IF06007	IF06001	HCF007W	NA	NA
LCS1W	HCF007WX	2.10	1	NA	0.200	0.100	06/06/1211:23	NA	IF06008	IF06001	HCF007W	NA	NA
LCD1W	HCF007WC	1.96	1	NA	0.200	0.100	06/06/1211:33	NA	IF06009	IF06001	HCF007W	NA	NA
LCD1W	HCF007WY	2.09	1	NA	0.200	0.100	06/06/1211:43	NA	IF06010	IF06001	HCF007W	NA	NA

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: 7199

=====

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	HCF007WB	HCF007WL	HCF007WC		
LAB FILE ID:	IF06003	IF06007	IF06009		
DATE EXTRACTED:	NA	NA	NA	DATE COLLECTED:	NA
DATE ANALYZED:	06/06/1210:31	06/06/1211:12	06/06/1211:33	DATE RECEIVED:	NA
PREP. BATCH:	HCF007W	HCF007W	HCF007W		
CALIB. REF:	IF06001	IF06001	IF06001		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.87	94	2.00	1.96	98	4	80-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCF007WQ HCF007WX HCF007WY  
LAB FILE ID: IF06004 IF06008 IF06010  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/06/1210:41 06/06/1211:23 06/06/1211:43 DATE RECEIVED: NA  
PREP. BATCH: HCF007W HCF007W HCF007W  
CALIB. REF: IF06001 IF06001 IF06001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	2.10	105	2.00	2.09	104	1	80-120	20

METHOD 7199  
 HEXAVALENT CHROMIUM

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F037

Matrix : SOIL  
 Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCF005SB	ND	1	NA	1.00	0.500	06/14/1215:56	06/11/1216:46	IF14003	IF14001	HCF005S	NA	06/11/12
MBLK1S	HCF005SQ	ND	1	NA	1.00	0.500	06/14/1216:07	06/11/1216:46	IF14004	IF14001	HCF005S	NA	06/11/12
LCS1S	CSF005SL	8.73	1	NA	1.00	0.500	06/14/1216:46	06/11/1216:46	IF14005	IF14001	HCF005S	NA	06/11/12
LCS1S	CSF005SX	8.71	1	NA	1.00	0.500	06/14/1216:57	06/11/1216:46	IF14006	IF14001	HCF005S	NA	06/11/12
LCS2S	CIF005SL	204	10	NA	10.0	5.00	06/14/1217:07	06/11/1216:46	IF14007	IF14001	HCF005S	NA	06/11/12
LCS2S	CIF005SX	211	10	NA	10.0	5.00	06/14/1217:18	06/11/1216:46	IF14008	IF14001	HCF005S	NA	06/11/12
SL-561-SA5C-SB-0.0-0.5	F037-11	ND	1	11.8	1.13	0.567	06/14/1218:51	06/11/1216:46	IF14017	IF14013	HCF005S	06/05/1210:20	06/05/12
SL-561-SA5C-SB-0.0-0.5	F037-11R	ND	1	11.8	1.13	0.567	06/14/1219:02	06/11/1216:46	IF14018	IF14013	HCF005S	06/05/1210:20	06/05/12
SL-561-SA5C-SB-5.5-6.5	F037-12	ND	1	5.6	1.06	0.530	06/14/1219:12	06/11/1216:46	IF14019	IF14013	HCF005S	06/05/1210:25	06/05/12
SL-561-SA5C-SB-5.5-6.5	F037-12R	ND	1	5.6	1.06	0.530	06/14/1219:23	06/11/1216:46	IF14020	IF14013	HCF005S	06/05/1210:25	06/05/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF005SB CIF005SL  
LAB FILE ID: IF14003 IF14007  
DATE EXTRACTED: 06/11/1216:46 06/11/1216:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1215:56 06/14/1217:07 DATE RECEIVED: 06/11/12  
PREP. BATCH: HCF005S HCF005S  
CALIB. REF: IF14001 IF14001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	232	204	88	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF005SQ CIF005SX  
LAB FILE ID: IF14004 IF14008  
DATE EXTRACTED: 06/11/1216:46 06/11/1216:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1216:07 06/14/1217:18 DATE RECEIVED: 06/11/12  
PREP. BATCH: HCF005S HCF005S  
CALIB. REF: IF14001 IF14001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	232	211	91	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF005SB CSF005SL  
LAB FILE ID: IF14003 IF14005  
DATE EXTRACTED: 06/11/1216:46 06/11/1216:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1215:56 06/14/1216:46 DATE RECEIVED: 06/11/12  
PREP. BATCH: HCF005S HCF005S  
CALIB. REF: IF14001 IF14001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.73	87	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F037  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF005SQ CSF005SX  
LAB FILE ID: IF14004 IF14006  
DATE EXTRACTED: 06/11/1216:46 06/11/1216:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1216:07 06/14/1216:57 DATE RECEIVED: 06/11/12  
PREP. BATCH: HCF005S HCF005S  
CALIB. REF: IF14001 IF14001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.71	87	80-120

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F037  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
FB-060512	F037-01	5.70	1	NA	NA	06/05/1218:46	NA	12PHF007W01	PHF007W	PHF007W	06/05/1215:00	06/05/12
FB-060512DUP	F037-01D	5.65	1	NA	NA	06/05/1218:49	NA	12PHF007W02	PHF007W	PHF007W	06/05/1215:00	06/05/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.:	12F037	DATE RECEIVED:	06/05/12
SAMPLE ID:	FB-060512DUP	DATE EXTRACTED:	NA
CONTROL NO.:	F037-01D	DATE ANALYZED:	06/05/1218:49

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	5.70	5.65	0.05	0.10

## METHOD 9045D

PH

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F037  
 =====

=====  
 Matrix : SOIL  
 Instrument ID : 53  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL	MDL	Analysis	Extraction	LFID	CAL REF	PREP BATCH	Collection	Received
			(pH Unit)	(pH Unit)	(pH Unit)		DATETIME	DATETIME				DATETIME	DATETIME
SL-545-SA5C-SB-0.0-0.5	F037-02	8.37	1	NA	NA	NA	06/06/1217:52	06/06/1215:37	12PHF008S01	PHF008S	PHF008S	06/04/1215:20	06/05/12
SL-545-SA5C-SB-4.0-5.0	F037-03	7.03	1	NA	NA	NA	06/06/1217:53	06/06/1215:37	12PHF008S02	PHF008S	PHF008S	06/04/1215:25	06/05/12
SL-545-SA5C-SB-9.0-10.0	F037-05	7.00	1	NA	NA	NA	06/06/1217:55	06/06/1215:37	12PHF008S03	PHF008S	PHF008S	06/04/1215:30	06/05/12
SL-543-SA5C-SB-0.0-0.5	F037-07	8.69	1	NA	NA	NA	06/06/1217:57	06/06/1215:37	12PHF008S04	PHF008S	PHF008S	06/05/1208:40	06/05/12
SL-543-SA5C-SB-3.5-4.5	F037-08	8.23	1	NA	NA	NA	06/06/1217:58	06/06/1215:37	12PHF008S05	PHF008S	PHF008S	06/05/1208:47	06/05/12
SL-552-SA5C-SB-0.0-0.5	F037-10	8.71	1	NA	NA	NA	06/06/1217:58	06/06/1215:37	12PHF008S06	PHF008S	PHF008S	06/05/1209:30	06/05/12
SL-561-SA5C-SB-0.0-0.5	F037-11	7.96	1	NA	NA	NA	06/06/1218:00	06/06/1215:37	12PHF008S07	PHF008S	PHF008S	06/05/1210:20	06/05/12
SL-561-SA5C-SB-5.5-6.5	F037-12	8.79	1	NA	NA	NA	06/06/1218:02	06/06/1215:37	12PHF008S08	PHF008S	PHF008S	06/05/1210:25	06/05/12
SL-615-SA5C-SB-4.0-5.0	F037-14	8.69	1	NA	NA	NA	06/06/1218:03	06/06/1215:37	12PHF008S09	PHF008S	PHF008S	06/05/1211:50	06/05/12
SL-615-SA5C-SB-9.0-10.0	F037-16	8.90	1	NA	NA	NA	06/06/1218:04	06/06/1215:37	12PHF008S10	PHF008S	PHF008S	06/05/1211:55	06/05/12
SL-539-SA5C-SB-0.0-0.5	F037-18	7.66	1	NA	NA	NA	06/06/1218:05	06/06/1215:37	12PHF008S11	PHF008S	PHF008S	06/05/1213:55	06/05/12
SL-539-SA5C-SB-6.0-7.0	F037-19	8.90	1	NA	NA	NA	06/06/1218:06	06/06/1215:37	12PHF008S12	PHF008S	PHF008S	06/05/1214:05	06/05/12
SL-551-SA5C-SB-0.0-0.5	F037-21	8.59	1	NA	NA	NA	06/06/1218:08	06/06/1215:37	12PHF008S13	PHF008S	PHF008S	06/05/1215:10	06/05/12
SL-551-SA5C-SB-4.0-5.0	F037-22	8.51	1	NA	NA	NA	06/06/1218:09	06/06/1215:37	12PHF008S14	PHF008S	PHF008S	06/05/1215:15	06/05/12
SL-551-SA5C-SB-4.0-5.0	DUPF037-22D	8.57	1	NA	NA	NA	06/06/1218:10	06/06/1215:37	12PHF008S15	PHF008S	PHF008S	06/05/1215:15	06/05/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12F037	DATE RECEIVED:	06/05/12
SAMPLE ID:	SL-551-SA5C-SB-4.0-5.0DUP	DATE EXTRACTED:	06/06/1215:37
CONTROL NO.:	F037-22D	DATE ANALYZED:	06/06/1218:10

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
-----	-----	-----	-----	-----
pH	8.51	8.57	-0.06	0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-546-SA5C-SB-0.0-0.5            Date Analyzed: 06/15/12 16:44
Lab Samp ID: F044-01                            Dilution Factor: 1
Lab File ID: RFL226                             Matrix          : SOIL
Ext Btch ID: SVF028S                            % Moisture     : 10.8
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	212	373.7	56.7	40-130
2-FLUOROBIPHENYL	206	373.7	55.0	45-130
TERPHENYL-D14	358	373.7	95.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-546-SA5C-SB-4.0-5.0           Date Analyzed: 06/15/12 17:10
Lab Samp ID: F044-02                           Dilution Factor: 1
Lab File ID: RFL227                            Matrix          : SOIL
Ext Btch ID: SVF028S                           % Moisture     : 13.8
Calib. Ref.: REL181                            Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	249	386.7	64.4	40-130
2-FLUOROBIPHENYL	197	386.7	50.9	45-130
TERPHENYL-D14	355	386.7	91.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-546-SA5C-SB-9.0-10.0           Date Analyzed: 06/15/12 17:35
Lab Samp ID: F044-04                             Dilution Factor: 1
Lab File ID: RFL228                               Matrix          : SOIL
Ext Btch ID: SVF028S                             % Moisture     : 13.8
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	221	386.7	57.0	40-130
2-FLUOROBIPHENYL	180	386.7	46.4	45-130
TERPHENYL-D14	346	386.7	89.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-567-SA5C-SB-0.0-0.5           Date Analyzed: 06/15/12 18:01
Lab Samp ID: F044-06                           Dilution Factor: 1
Lab File ID: RFL229                             Matrix          : SOIL
Ext Btch ID: SVF028S                            % Moisture     : 13.4
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	227	384.9	58.9	40-130
2-FLUOROBIPHENYL	207	384.9	53.7	45-130
TERPHENYL-D14	364	384.9	94.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-567-SA5C-SB-3.0-4.0           Date Analyzed: 06/15/12 18:28
Lab Samp ID: F044-07                           Dilution Factor: 1
Lab File ID: RFL230                            Matrix          : SOIL
Ext Btch ID: SVF028S                          % Moisture     : 12.0
Calib. Ref.: REL181                            Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	235	378.8	62.0	40-130
2-FLUOROBIPHENYL	206	378.8	54.4	45-130
TERPHENYL-D14	346	378.8	91.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-568-SA5C-SB-0.0-0.5            Date Analyzed: 06/15/12 18:54
Lab Samp ID: F044-08                            Dilution Factor: 1
Lab File ID: RFL231                             Matrix          : SOIL
Ext Btch ID: SVF028S                            % Moisture     : 12.8
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	225	382.2	58.9	40-130
2-FLUOROBIPHENYL	199	382.2	52.1	45-130
TERPHENYL-D14	345	382.2	90.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-568-SA5C-SB-4.0-5.0           Date Analyzed: 06/15/12 19:21
Lab Samp ID: F044-09                           Dilution Factor: 1
Lab File ID: RFL232                             Matrix          : SOIL
Ext Btch ID: SVF028S                            % Moisture     : 11.2
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	247	375.3	65.9	40-130
2-FLUOROBIPHENYL	219	375.3	58.5	45-130
TERPHENYL-D14	376	375.3	100	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/14/12 13:36
Sample ID:   SL-568-SA5C-SB-9.0-10.0           Date Analyzed: 06/15/12 19:46
Lab Samp ID: F044-10                            Dilution Factor: 1
Lab File ID: RFL233                              Matrix          : SOIL
Ext Btch ID: SVF028S                            % Moisture      : 13.6
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	256	385.8	66.4	40-130
2-FLUOROBIPHENYL	222	385.8	57.5	45-130
TERPHENYL-D14	383	385.8	99.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/18/12 15:00
Sample ID:   SL-846-SA5C-SB-4.0-5.0           Date Analyzed: 06/20/12 04:23
Lab Samp ID: F044-11R                          Dilution Factor: 1
Lab File ID: RFL294                             Matrix          : SOIL
Ext Btch ID: SVF036S                           % Moisture     : 14.6
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.9	2.9
BENZO (E) PYRENE	ND	5.9	2.9
BIPHENYL	ND	5.9	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	225	390.3	57.6	40-130
2-FLUOROBIPHENYL	189	390.3	48.4	45-130
TERPHENYL-D14	295	390.3	75.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/14/12
Batch No.    : 12F044                           Date Extracted: 06/14/12 13:36
Sample ID    : MBLK1S                           Date Analyzed: 06/15/12 10:45
Lab Samp ID  : SVF028SB                         Dilution Factor: 1
Lab File ID  : RFL213                           Matrix          : SOIL
Ext Btch ID  : SVF028S                          % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	238	333.3	71.3	40-130
2-FLUOROBIPHENYL	220	333.3	66.0	45-130
TERPHENYL-D14	323	333.3	96.9	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF028SB SVF028SL SVF028SC  
LAB FILE ID: RFL213 RFL211 RFL212  
DATE EXTRACTED: 06/14/1213:36 06/14/1213:36 06/14/1213:36 DATE COLLECTED: NA  
DATE ANALYZED: 06/15/1210:45 06/15/1209:56 06/15/1210:19 DATE RECEIVED: 06/14/12  
PREP. BATCH: SVF028S SVF028S SVF028S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	287	86	333	286	86	0	10-130	50
Acenaphthylene	ND	333	302	91	333	297	89	2	20-130	50
Anthracene	ND	333	300	90	333	314	94	5	20-130	50
Benzo (a) anthracene	ND	333	301	90	333	339	102	12	30-130	50
Benzo (a) pyrene	ND	333	333	100	333	365	109	9	30-130	50
Benzo (b) fluoranthene	ND	333	366	110	333	377	113	3	40-130	50
Benzo (k) fluoranthene	ND	333	334	100	333	371	111	11	30-140	50
Benzo (g, h, i) perylene	ND	333	298	89	333	331	99	11	30-140	50
Chrysene	ND	333	315	94	333	344	103	9	30-140	50
Dibenzo (a, h) anthracene	ND	333	319	96	333	352	106	10	40-140	50
Fluoranthene	ND	333	333	100	333	358	107	7	30-130	50
Fluorene	ND	333	288	86	333	290	87	1	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	311	93	333	346	104	11	20-160	50
Naphthalene	ND	333	251	75	333	252	76	0	10-130	50
Phenanthrene	ND	333	310	93	333	326	98	5	20-130	50
2-Methylnaphthalene	ND	333	268	81	333	272	82	1	30-150	50
1-Methylnaphthalene	ND	333	284	85	333	283	85	0	30-150	50
N-Nitrosodimethylamine	ND	333	366	110	333	366	110	0	30-150	50
Pyrene	ND	333	317	95	333	352	106	11	20-150	50
Azobenzene	ND	333	278	84	333	285	85	2	30-150	50
Benzo (e) pyrene	ND	333	326	98	333	324	97	1	30-150	50
Biphenyl	ND	333	250	75	333	230	69	8	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	260	78	333	248	75	40-130
2-Fluorobiphenyl	333	245	74	333	228	68	45-130
Terphenyl-d14	333	331	99	333	329	99	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F044                           Date Extracted: 06/18/12 15:00
Sample ID    : MBLK2S                            Date Analyzed: 06/19/12 19:40
Lab Samp ID  : SVF036SB                         Dilution Factor: 1
Lab File ID  : RFL274                           Matrix          : SOIL
Ext Btch ID  : SVF036S                          % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	242	333.3	72.5	40-130
2-FLUOROBIPHENYL	202	333.3	60.5	45-130
TERPHENYL-D14	266	333.3	79.8	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2S  
LAB SAMP ID: SVF036SB SVF036SL SVF036SC  
LAB FILE ID: RFL274 RFL275 RFL276  
DATE EXTRACTED: 06/18/1215:00 06/18/1215:00 06/18/1215:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/19/1219:40 06/19/1220:06 06/19/1220:32 DATE RECEIVED: 06/18/12  
PREP. BATCH: SVF036S SVF036S SVF036S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	271	81	333	256	77	5	10-130	50
Acenaphthylene	ND	333	276	83	333	272	81	2	20-130	50
Anthracene	ND	333	275	83	333	262	78	5	20-130	50
Benzo (a) anthracene	ND	333	265	80	333	285	86	7	30-130	50
Benzo (a) pyrene	ND	333	315	95	333	323	97	3	30-130	50
Benzo (b) fluoranthene	ND	333	331	99	333	350	105	5	40-130	50
Benzo (k) fluoranthene	ND	333	345	103	333	349	105	1	30-140	50
Benzo (g, h, i) perylene	ND	333	318	96	333	339	102	6	30-140	50
Chrysene	ND	333	272	82	333	294	88	8	30-140	50
Dibenzo (a, h) anthracene	ND	333	341	102	333	362	108	6	40-140	50
Fluoranthene	ND	333	328	99	333	339	102	3	30-130	50
Fluorene	ND	333	257	77	333	243	73	5	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	332	100	333	360	108	8	20-160	50
Naphthalene	ND	333	298	89	333	276	83	8	10-130	50
Phenanthrene	ND	333	292	87	333	282	85	3	20-130	50
2-Methylnaphthalene	ND	333	264	79	333	251	75	5	30-150	50
1-Methylnaphthalene	ND	333	277	83	333	263	79	5	30-150	50
N-Nitrosodimethylamine	ND	333	406	122	333	354	106	14	30-150	50
Pyrene	ND	333	323	97	333	333	100	3	20-150	50
Azobenzene	ND	333	232	70	333	225	67	3	30-150	50
Benzo (e) pyrene	ND	333	304	91	333	320	96	5	30-150	50
Biphenyl	ND	333	232	70	333	233	70	0	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	269	81	333	256	77	40-130
2-Fluorobiphenyl	333	226	68	333	216	65	45-130
Terphenyl-d14	333	257	77	333	275	83	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 13.8  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-546-SA5C-SB-4.0-5.0  
LAB SAMP ID: F044-02 F044-02M F044-02S  
LAB FILE ID: RFL227 RFL214 RFL215  
DATE EXTRACTED: 06/14/1213:36 06/14/1213:36 06/14/1213:36 DATE COLLECTED: 06/06/12  
DATE ANALYZED: 06/15/1217:10 06/15/1211:10 06/15/1211:36 DATE RECEIVED: 06/06/12  
PREP. BATCH: SVF028S SVF028S SVF028S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	387	293	76	387	325	84	10	10-130	50
Acenaphthylene	ND	387	298	77	387	324	84	8	20-130	50
Anthracene	ND	387	319	82	387	358	92	12	20-130	50
Benzo (a) anthracene	ND	387	339	88	387	390	101	14	30-130	50
Benzo (a) pyrene	ND	387	369	96	387	412	107	11	30-130	50
Benzo (b) fluoranthene	ND	387	426	110	387	450	117	6	30-130	50
Benzo (k) fluoranthene	ND	387	372	96	387	449	116	19	30-130	50
Benzo (g, h, i) perylene	ND	387	359	93	387	395	102	10	30-140	50
Chrysene	ND	387	353	91	387	396	103	11	20-130	50
Dibenzo (a, h) anthracene	ND	387	383	99	387	421	109	10	30-130	50
Fluoranthene	ND	387	373	96	387	422	109	12	30-150	50
Fluorene	ND	387	302	78	387	351	91	15	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	387	383	99	387	412	107	7	20-160	50
Naphthalene	ND	387	218	56	387	217	56	0	10-130	50
Phenanthrene	ND	387	341	88	387	390	101	13	20-130	50
2-Methylnaphthalene	ND	387	256	66	387	281	73	9	30-150	50
1-Methylnaphthalene	ND	387	276	71	387	302	78	9	30-150	50
N-Nitrosodimethylamine	ND	387	389	101	387	428	111	10	20-150	50
Pyrene	ND	387	357	92	387	418	108	16	10-160	50
Azobenzene	ND	387	297	77	387	341	88	14	30-150	50
Benzo (e) pyrene	ND	387	339	88	387	387	100	13	30-150	50
Biphenyl	ND	387	201	52	387	233	60	15	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	387	248	64	387	264	68	40-130
2-Fluorobiphenyl	387	187	48	387	226	58	45-130
Terphenyl-d14	387	331	86	387	368	95	45-135

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/09/12 14:28
Sample ID:   SL-546-SA5C-SB-5.0                Date Analyzed: 06/09/12 14:28
Lab Samp ID: F044-03                            Dilution Factor: 0.86
Lab File ID: EF08027A                           Matrix          : SOIL
Ext Btch ID: GMF003S                             % Moisture      : 11.9
Calib. Ref.: EF08024A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.98	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.62	1.952	82.9 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/09/12 16:37
Sample ID:   SL-546-SA5C-SB-10.0               Date Analyzed: 06/09/12 16:37
Lab Samp ID: F044-05                           Dilution Factor: 0.81
Lab File ID: EF08030A                          Matrix          : SOIL
Ext Btch ID: GMF003S                            % Moisture     : 13.1
Calib. Ref.: EF08024A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.93	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.46	1.864	78.5 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/09/12 17:20
Sample ID:   SL-846-SA5C-SB-5.0                Date Analyzed: 06/09/12 17:20
Lab Samp ID: F044-12                            Dilution Factor: 0.91
Lab File ID: EF08031A                           Matrix          : SOIL
Ext Btch ID: GMF003S                             % Moisture     : 12.4
Calib. Ref.: EF08024A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.56	2.078	75.2 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/09/12
Batch No.   : 12F044                           Date Extracted: 06/09/12 06:34
Sample ID   : MBLK1S                           Date Analyzed: 06/09/12 06:34
Lab Samp ID: GMF003SB                         Dilution Factor: 1
Lab File ID: EF08016A                         Matrix          : SOIL
Ext Btch ID: GMF003S                          % Moisture     : NA
Calib. Ref.: EF08013A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	2.05	2.000	102 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF003SB GMF003SL GMF003SC  
LAB FILE ID: EF08016A EF08014A EF08015A  
DATE EXTRACTED: 06/09/1206:34 06/09/1205:08 06/09/1205:51 DATE COLLECTED: NA  
DATE ANALYZED: 06/09/1206:34 06/09/1205:08 06/09/1205:51 DATE RECEIVED: 06/09/12  
PREP. BATCH: GMF003S GMF003S GMF003S  
CALIB. REF: EF08013A EF08013A EF08013A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	22.3	89	25.0	21.8	87	2	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.24	112	2.00	2.22	111	60-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: 11.9  
DILUTION FACTOR: 0.86 0.85 0.88  
SAMPLE ID: SL-546-SA5C-SB-5.0  
LAB SAMP ID: F044-03 F044-03M F044-03S  
LAB FILE ID: EF08027A EF08028A EF08029A  
DATE EXTRACTED: 06/09/1214:28 06/09/1215:10 06/09/1215:53 DATE COLLECTED: 06/06/12  
DATE ANALYZED: 06/09/1214:28 06/09/1215:10 06/09/1215:53 DATE RECEIVED: 06/06/12  
PREP. BATCH: GMF003S GMF003S GMF003S  
CALIB. REF: EF08024A EF08024A EF08024A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	24.1	18.8	78	25.0	17.4	70	11	50-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	1.93	2.05	106	2.00	1.97	98	70-140

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/12/12 13:33
Sample ID    : TB-060612                        Date Analyzed: 06/12/12 13:33
Lab Samp ID  : F044-17                          Dilution Factor: 1
Lab File ID  : EF10071A                         Matrix          : WATER
Ext Btch ID  : VG39F07                          % Moisture     : NA
Calib. Ref.  : EF10064A                         Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	29J	50	10
SURROGATE PARAMETERS			
4-BROMOFLUOROBENZENE	32.8	40.00	60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F044                           Date Extracted: 06/12/12 10:41
Sample ID    : MBLK1W                           Date Analyzed: 06/12/12 10:41
Lab Samp ID  : VG39F07B                         Dilution Factor: 1
Lab File ID  : EF10067A                         Matrix          : WATER
Ext Btch ID  : VG39F07                          % Moisture     : NA
Calib. Ref.  : EF10064A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	32.5	40.00	81.3	60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F07B VG39F07L VG39F07C  
LAB FILE ID: EF10067A EF10065A EF10066A  
DATE EXTRACTED: 06/12/1210:41 06/12/1209:15 06/12/1209:58 DATE COLLECTED: NA  
DATE ANALYZED: 06/12/1210:41 06/12/1209:15 06/12/1209:58 DATE RECEIVED: 06/12/12  
PREP. BATCH: VG39F07 VG39F07 VG39F07  
CALIB. REF: EF10064A EF10064A EF10064A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	434	87	500	390	78	10	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	40.7	102	40.0	36.4	91	60-130

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/07/12 09:40
Sample ID:   SL-546-SA5C-SB-0.0-0.5            Date Analyzed: 06/11/12 11:32
Lab Samp ID: F044-01                            Dilution Factor: 1
Lab File ID: BF11007A                          Matrix          : SOIL
Ext Btch ID: MEF005S                            % Moisture     : 10.8
Calib. Ref.: BF11003A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	560	280
ISOPROPANOL	ND	560	280
METHANOL	ND	560	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/07/12 09:40
Sample ID:   SL-546-SA5C-SB-4.0-5.0           Date Analyzed: 06/11/12 12:33
Lab Samp ID: F044-02                           Dilution Factor: 1
Lab File ID: BF11010A                          Matrix          : SOIL
Ext Btch ID: MEF005S                           % Moisture      : 13.8
Calib. Ref.: BF11003A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                       Date Received: 06/06/12
Batch No.    : 12F044                             Date Extracted: 06/07/12 09:40
Sample ID:   SL-546-SA5C-SB-9.0-10.0             Date Analyzed: 06/11/12 11:54
Lab Samp ID: F044-04                             Dilution Factor: 1
Lab File ID: BF11008A                           Matrix          : SOIL
Ext Btch ID: MEF005S                             % Moisture     : 13.8
Calib. Ref.: BF11003A                           Instrument ID  : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/07/12 09:40
Sample ID:   SL-846-SA5C-SB-4.0-5.0           Date Analyzed: 06/11/12 12:17
Lab Samp ID: F044-11                           Dilution Factor: 1
Lab File ID: BF11009A                          Matrix          : SOIL
Ext Btch ID: MEF005S                            % Moisture     : 14.6
Calib. Ref.: BF11003A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	590	290
ISOPROPANOL	ND	590	290
METHANOL	ND	590	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.   : 12F044                           Date Extracted: 06/07/12 09:40
Sample ID   : MBLK1S                           Date Analyzed: 06/11/12 10:34
Lab Samp ID: MEF005SB                         Dilution Factor: 1
Lab File ID: BF11004A                         Matrix          : SOIL
Ext Btch ID: MEF005S                          % Moisture      : NA
Calib. Ref.: BF11003A                         Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEF005SB MEF005SL MEF005SC  
LAB FILE ID: BF11004A BF11005A BF11006A  
DATE EXTRACTED: 06/07/1209:40 06/07/1209:40 06/07/1209:40 DATE COLLECTED: NA  
DATE ANALYZED: 06/11/1210:34 06/11/1210:51 06/11/1211:13 DATE RECEIVED: 06/07/12  
PREP. BATCH: MEF005S MEF005S MEF005S  
CALIB. REF: BF11003A BF11003A BF11003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	11100	111	10000	10600	106	5	50-150	50
Isopropanol	ND	10000	10100	101	10000	11200	112	11	50-150	50
Methanol	ND	10000	10300	103	10000	9350	93	10	50-150	50

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: 13.8  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-546-SA5C-SB-4.0-5.0  
LAB SAMP ID: F044-02 F044-02M F044-02S  
LAB FILE ID: BF11010A BF11011A BF11012A  
DATE EXTRACTED: 06/07/1209:40 06/07/1209:40 06/07/1209:40 DATE COLLECTED: 06/06/12  
DATE ANALYZED: 06/11/1212:33 06/11/1212:57 06/11/1213:14 DATE RECEIVED: 06/06/12  
PREP. BATCH: MEF005S MEF005S MEF005S  
CALIB. REF: BF11003A BF11003A BF11003A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	11600	11400	98	11600	11300	97	1	30-150	50
Isopropanol	ND	11600	11200	97	11600	12100	105	8	50-150	50
Methanol	ND	11600	9790	84	11600	12500	108	24	50-140	50

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/06/12
Project     : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.   : 12F044                           Date Extracted: 06/07/12 09:30
Sample ID:  SL-546-SA5C-SB-0.0-0.5           Date Analyzed: 06/08/12 11:31
Lab Samp ID: F044-01                          Dilution Factor: 1
Lab File ID: TF08007A                         Matrix          : SOIL
Ext Btch ID: PEF005S                          % Moisture     : 10.8
Calib. Ref.: TF08003A                         Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.4
ETHYLENE GLYCOL	ND	11	5.6
PROPYLENE GLYCOL	ND	11	5.6

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/06/12
Project     : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.   : 12F044                           Date Extracted: 06/07/12 09:30
Sample ID   : SL-546-SA5C-SB-4.0-5.0          Date Analyzed: 06/08/12 12:13
Lab Samp ID: F044-02                           Dilution Factor: 1
Lab File ID: TF08010A                         Matrix          : SOIL
Ext Btch ID: PEF005S                          % Moisture     : 13.8
Calib. Ref.: TF08003A                         Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.7
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                       Date Received: 06/06/12
Batch No.    : 12F044                             Date Extracted: 06/07/12 09:30
Sample ID    : SL-546-SA5C-SB-9.0-10.0           Date Analyzed: 06/08/12 11:45
Lab Samp ID  : F044-04                             Dilution Factor: 1
Lab File ID  : TF08008A                           Matrix          : SOIL
Ext Btch ID  : PEF005S                             % Moisture      : 13.8
Calib. Ref.  : TF08003A                           Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.7
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/06/12
Project     : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.   : 12F044                           Date Extracted: 06/07/12 09:30
Sample ID   : SL-846-SA5C-SB-4.0-5.0          Date Analyzed: 06/08/12 11:59
Lab Samp ID: F044-11                           Dilution Factor: 1
Lab File ID: TF08009A                          Matrix          : SOIL
Ext Btch ID: PEF005S                            % Moisture     : 14.6
Calib. Ref.: TF08003A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	18	8.8
ETHYLENE GLYCOL	ND	12	5.9
PROPYLENE GLYCOL	ND	12	5.9

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.   : 12F044                           Date Extracted: 06/07/12 09:30
Sample ID   : MBLK1S                           Date Analyzed: 06/08/12 11:16
Lab Samp ID: PEF005SB                           Dilution Factor: 1
Lab File ID: TF08006A                           Matrix          : SOIL
Ext Btch ID: PEF005S                            % Moisture      : NA
Calib. Ref.: TF08003A                           Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEF005SB PEF005SL PEF005SC  
LAB FILE ID: TF08006A TF08004A TF08005A  
DATE EXTRACTED: 06/07/1209:30 06/07/1209:30 06/07/1209:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/08/1211:16 06/08/1210:39 06/08/1210:54 DATE RECEIVED: 06/07/12  
PREP. BATCH: PEF005S PEF005S PEF005S  
CALIB. REF: TF08003A TF08003A TF08003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	49.5	99	50.0	55.9	112	12	50-150	50
Ethylene Glycol	ND	50.0	42.2	84	50.0	47.7	95	12	50-150	50
Propylene Glycol	ND	25.0	23.3	93	25.0	26.3	105	12	50-150	50

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: 13.8  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-546-SA5C-SB-4.0-5.0  
LAB SAMP ID: F044-02 F044-02M F044-02S  
LAB FILE ID: TF08010A TF08011A TF08012A  
DATE EXTRACTED: 06/07/1209:30 06/07/1209:30 06/07/1209:30 DATE COLLECTED: 06/06/12  
DATE ANALYZED: 06/08/1212:13 06/08/1212:33 06/08/1213:07 DATE RECEIVED: 06/06/12  
PREP. BATCH: PEF005S PEF005S PEF005S  
CALIB. REF: TF08003A TF08003A TF08003A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	58.0	53.7	93	58.0	52.9	91	2	50-150	50
Ethylene Glycol	ND	58.0	48.2	83	58.0	47.6	82	1	50-150	50
Propylene Glycol	ND	29.0	27.6	95	29.0	27.4	94	1	50-150	50

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                       Date Received: 06/06/12
Batch No.    : 12F044                             Date Extracted: 06/11/12 11:21
Sample ID:   SL-546-SA5C-SB-0.0-0.5              Date Analyzed: 06/12/12 12:34
Lab Samp ID: F044-01                             Dilution Factor: 1
Lab File ID: LF11098A                            Matrix          : SOIL
Ext Btch ID: DSF013S                             % Moisture     : 10.8
Calib. Ref.: LF11087A                            Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	68.7	112.1	61.3	50-150
HEXACOSANE	20.2	28.03	72.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/11/12 11:21
Sample ID:   SL-546-SA5C-SB-4.0-5.0           Date Analyzed: 06/12/12 11:26
Lab Samp ID: F044-02                           Dilution Factor: 1
Lab File ID: LF11094A                          Matrix          : SOIL
Ext Btch ID: DSF013S                            % Moisture     : 13.8
Calib. Ref.: LF11087A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	62.5	116.0	53.8	50-150
HEXACOSANE	21.8	29.00	75.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                       Date Received: 06/06/12
Batch No.    : 12F044                             Date Extracted: 06/11/12 11:21
Sample ID    : SL-546-SA5C-SB-9.0-10.0           Date Analyzed: 06/12/12 12:17
Lab Samp ID  : F044-04                             Dilution Factor: 1
Lab File ID  : LF11097A                           Matrix          : SOIL
Ext Btch ID  : DSF013S                             % Moisture     : 13.8
Calib. Ref.  : LF11087A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.8	116.0	61.9	50-150
HEXACOSANE	21.1	29.00	72.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/11/12 11:21
Sample ID:   SL-846-SA5C-SB-4.0-5.0           Date Analyzed: 06/12/12 13:24
Lab Samp ID: F044-11                           Dilution Factor: 1
Lab File ID: LF11101A                          Matrix          : SOIL
Ext Btch ID: DSF013S                           % Moisture     : 14.6
Calib. Ref.: LF11099A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.9	2.9
EFH(C12-C14)	ND	5.9	2.9
EFH(C15-C20)	ND	5.9	2.9
EFH(C21-C30)	ND	5.9	2.9
EFH(C30-C40)	ND	12	5.9
TOTAL EFH(C8-C40)	ND	5.9	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.4	117.1	59.2	50-150
HEXACOSANE	22.7	29.27	77.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F044                           Date Extracted: 06/11/12 11:21
Sample ID    : MBLK1S                           Date Analyzed: 06/11/12 13:39
Lab Samp ID  : DSF013SB                        Dilution Factor: 1
Lab File ID  : LF11017A                       Matrix          : SOIL
Ext Btch ID  : DSF013S                         % Moisture     : NA
Calib. Ref. : LF11015A                       Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.1	100.0	72.1	50-150
HEXACOSANE	18.8	25.00	75.1	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF013SB DSF013SL DSF013SC  
LAB FILE ID: LF11017A LF11019A LF11020A  
DATE EXTRACTED: 06/11/1211:21 06/11/1211:21 06/11/1211:21 DATE COLLECTED: NA  
DATE ANALYZED: 06/11/1213:39 06/11/1214:13 06/11/1214:30 DATE RECEIVED: 06/11/12  
PREP. BATCH: DSF013S DSF013S DSF013S  
CALIB. REF: LF11015A LF11015A LF11015A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	420	84	500	407	81	3	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	75.9	76	100	74.1	74	50-150
Hexacosane	25.0	19.4	78	25.0	19.0	76	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 13.8  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-546-SA5C-SB-4.0-5.0  
LAB SAMP ID: F044-02 F044-02M F044-02S  
LAB FILE ID: LF11094A LF11095A LF11096A  
DATE EXTRACTED: 06/11/1211:21 06/11/1211:21 06/11/1211:21 DATE COLLECTED: 06/06/12  
DATE ANALYZED: 06/12/1211:26 06/12/1211:43 06/12/1212:00 DATE RECEIVED: 06/06/12  
PREP. BATCH: DSF013S DSF013S DSF013S  
CALIB. REF: LF11087A LF11087A LF11087A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	580	457	79	580	448	77	2	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	116	78.4	68	116	76.1	66	50-150
Hexacosane	29.0	21.8	75	29.0	21.7	75	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/15/12 16:30
Sample ID:   SL-546-SA5C-SB-0.0-0.5            Date Analyzed: 06/18/12 17:26
Lab Samp ID: F044-01                            Dilution Factor: 1
Lab File ID: SF18013B                          Matrix          : SOIL
Ext Btch ID: CPF017S                            % Moisture     : 10.8
Calib. Ref.: SF18007B                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	ND   (ND)	22	11   11	
AROCLOR 1221	ND   (ND)	22	11   11	
AROCLOR 1232	ND   (ND)	22	11   11	
AROCLOR 1242	ND   (ND)	22	11   11	
AROCLOR 1248	ND   (ND)	22	11   11	
AROCLOR 1254	ND   (ND)	22	11   11	
AROCLOR 1260	100   (130)	22	11   11	
AROCLOR 1262	ND   (ND)	22	11   11	
AROCLOR 1268	ND   (ND)	22	11   11	
AROCLOR 5432	ND   (ND)	45	22   22	
AROCLOR 5442	ND   (ND)	45	22   22	
AROCLOR 5460	ND   (ND)	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.58   (14.14)	14.94	84.2   (94.6)	45-120
TETRACHLORO-M-XYLENE	12.87   (14.74)	14.94	86.1   (98.6)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/15/12 16:30
Sample ID    : SL-546-SA5C-SB-4.0-5.0          Date Analyzed: 06/18/12 18:01
Lab Samp ID  : F044-02                          Dilution Factor: 1
Lab File ID  : SF18014B                         Matrix          : SOIL
Ext Btch ID  : CPF017S                          % Moisture     : 13.8
Calib. Ref.  : SF18007B                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	ND   (ND)	23	12   12	
AROCLOR 1221	ND   (ND)	23	12   12	
AROCLOR 1232	ND   (ND)	23	12   12	
AROCLOR 1242	ND   (ND)	23	12   12	
AROCLOR 1248	ND   (ND)	23	12   12	
AROCLOR 1254	ND   (ND)	23	12   12	
AROCLOR 1260	ND   (ND)	23	12   12	
AROCLOR 1262	ND   (ND)	23	12   12	
AROCLOR 1268	ND   (ND)	23	12   12	
AROCLOR 5432	ND   (ND)	46	23   23	
AROCLOR 5442	ND   (ND)	46	23   23	
AROCLOR 5460	ND   (ND)	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.12   (14.70)	15.46	84.9   (95.1)	45-120
TETRACHLORO-M-XYLENE	13.50   (15.24)	15.46	87.3   (98.5)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/15/12 16:30
Sample ID    : SL-546-SA5C-SB-9.0-10.0         Date Analyzed: 06/18/12 19:43
Lab Samp ID  : F044-04                          Dilution Factor: 1
Lab File ID  : SF18017B                        Matrix          : SOIL
Ext Btch ID  : CPF017S                          % Moisture     : 13.8
Calib. Ref.  : SF18007B                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	ND   (ND)	23	12   12	
AROCLOR 1221	ND   (ND)	23	12   12	
AROCLOR 1232	ND   (ND)	23	12   12	
AROCLOR 1242	ND   (ND)	23	12   12	
AROCLOR 1248	ND   (ND)	23	12   12	
AROCLOR 1254	ND   (ND)	23	12   12	
AROCLOR 1260	ND   (ND)	23	12   12	
AROCLOR 1262	ND   (ND)	23	12   12	
AROCLOR 1268	ND   (ND)	23	12   12	
AROCLOR 5432	ND   (ND)	46	23   23	
AROCLOR 5442	ND   (ND)	46	23   23	
AROCLOR 5460	ND   (ND)	46	23   23	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.10   (14.82)	15.46	84.7   (95.8)	45-120
TETRACHLORO-M-XYLENE	12.24   (14.83)	15.46	79.1   (95.9)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/15/12 16:30
Sample ID    : SL-846-SA5C-SB-4.0-5.0          Date Analyzed: 06/18/12 20:18
Lab Samp ID  : F044-11                          Dilution Factor: 1
Lab File ID  : SF18018B                        Matrix          : SOIL
Ext Btch ID  : CPF017S                          % Moisture     : 14.6
Calib. Ref.  : SF18007B                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	ND   (ND)	23	12   12	
AROCLOR 1221	ND   (ND)	23	12   12	
AROCLOR 1232	ND   (ND)	23	12   12	
AROCLOR 1242	ND   (ND)	23	12   12	
AROCLOR 1248	ND   (ND)	23	12   12	
AROCLOR 1254	ND   (ND)	23	12   12	
AROCLOR 1260	ND   (ND)	23	12   12	
AROCLOR 1262	ND   (ND)	23	12   12	
AROCLOR 1268	ND   (ND)	23	12   12	
AROCLOR 5432	ND   (ND)	47	23   23	
AROCLOR 5442	ND   (ND)	47	23   23	
AROCLOR 5460	ND   (ND)	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.49   (14.17)	15.61	80.0   (90.8)	45-120
TETRACHLORO-M-XYLENE	13.09   (14.65)	15.61	83.9   (93.9)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/15/12 16:30
Sample ID:   SL-636-SA5C-SB-0.0-0.5            Date Analyzed: 06/18/12 20:52
Lab Samp ID: F044-13                            Dilution Factor: 1
Lab File ID: SF18019B                          Matrix          : SOIL
Ext Btch ID: CPF017S                            % Moisture     : 10.2
Calib. Ref.: SF18007B                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	ND   (ND)	22	11   11	
AROCLOR 1221	ND   (ND)	22	11   11	
AROCLOR 1232	ND   (ND)	22	11   11	
AROCLOR 1242	ND   (ND)	22	11   11	
AROCLOR 1248	ND   (ND)	22	11   11	
AROCLOR 1254	ND   (ND)	22	11   11	
AROCLOR 1260	800E   (560E)	22	11   11	
AROCLOR 1262	ND   (ND)	22	11   11	
AROCLOR 1268	ND   (ND)	22	11   11	
AROCLOR 5432	ND   (ND)	45	22   22	
AROCLOR 5442	ND   (ND)	45	22   22	
AROCLOR 5460	ND   (ND)	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.97   (14.63)	14.84	80.6   (98.6)	45-120
TETRACHLORO-M-XYLENE	12.30   (13.58)	14.84	82.9   (91.5)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/06/12
Project    : SSFL PHASE 3                       Date Received: 06/06/12
Batch No.  : 12F044                             Date Extracted: 06/15/12 16:30
Sample ID  : SL-636-SA5C-SB-0.0-0.5DL          Date Analyzed: 06/20/12 12:51
Lab Samp ID: F044-13I                           Dilution Factor: 5
Lab File ID: SF20008A                           Matrix          : SOIL
Ext Btch ID: CPF017S                            % Moisture     : 10.2
Calib. Ref.: SF20006A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	110	56   56	
AROCLOR 1221	(ND)   ND	110	56   56	
AROCLOR 1232	(ND)   ND	110	56   56	
AROCLOR 1242	(ND)   ND	110	56   56	
AROCLOR 1248	(ND)   ND	110	56   56	
AROCLOR 1254	(ND)   ND	110	56   56	
AROCLOR 1260	1100   (1400)	110	56   56	
AROCLOR 1262	(ND)   ND	110	56   56	
AROCLOR 1268	(ND)   ND	110	56   56	
AROCLOR 5432	(ND)   ND	220	110   110	
AROCLOR 5442	(ND)   ND	220	110   110	
AROCLOR 5460	(ND)   ND	220	110   110	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.34   (15.73)	14.84	89.9   (106)	45-120
TETRACHLORO-M-XYLENE	13.62   (20.35)	14.84	91.8   (137)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/15/12 16:30
Sample ID    : SL-636-SA5C-SB-2.0-3.0          Date Analyzed: 06/18/12 21:26
Lab Samp ID  : F044-14                           Dilution Factor: 1
Lab File ID  : SF18020B                          Matrix          : SOIL
Ext Btch ID  : CPF017S                           % Moisture     : 11.3
Calib. Ref.  : SF18007B                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	ND   (ND)	23	11   11	
AROCLOR 1221	ND   (ND)	23	11   11	
AROCLOR 1232	ND   (ND)	23	11   11	
AROCLOR 1242	ND   (ND)	23	11   11	
AROCLOR 1248	ND   (ND)	23	11   11	
AROCLOR 1254	ND   (ND)	23	11   11	
AROCLOR 1260	ND   (ND)	23	11   11	
AROCLOR 1262	ND   (ND)	23	11   11	
AROCLOR 1268	ND   (ND)	23	11   11	
AROCLOR 5432	ND   (ND)	45	23   23	
AROCLOR 5442	ND   (ND)	45	23   23	
AROCLOR 5460	ND   (ND)	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.97   (13.69)	15.03	79.6   (91.1)	45-120
TETRACHLORO-M-XYLENE	12.45   (13.90)	15.03	82.8   (92.5)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/06/12
Project    : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.  : 12F044                           Date Extracted: 06/15/12 16:30
Sample ID: SL-638-SA5C-SB-0.0-0.5           Date Analyzed: 06/18/12 22:00
Lab Samp ID: F044-15                         Dilution Factor: 1
Lab File ID: SF18021B                       Matrix          : SOIL
Ext Btch ID: CPF017S                         % Moisture     : 12.3
Calib. Ref.: SF18007B                       Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	ND   (ND)	23	11   11	
AROCLOR 1221	ND   (ND)	23	11   11	
AROCLOR 1232	ND   (ND)	23	11   11	
AROCLOR 1242	ND   (ND)	23	11   11	
AROCLOR 1248	ND   (ND)	23	11   11	
AROCLOR 1254	ND   (ND)	23	11   11	
AROCLOR 1260	ND   (ND)	23	11   11	
AROCLOR 1262	ND   (ND)	23	11   11	
AROCLOR 1268	ND   (ND)	23	11   11	
AROCLOR 5432	ND   (ND)	46	23   23	
AROCLOR 5442	ND   (ND)	46	23   23	
AROCLOR 5460	ND   (ND)	46	23   23	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.09   (13.31)	15.20	72.9   (87.6)	45-120
TETRACHLORO-M-XYLENE	11.01   (12.01)	15.20	72.4   (79.0)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/06/12
Batch No.    : 12F044                           Date Extracted: 06/15/12 16:30
Sample ID:   SL-638-SA5C-SB-2.0-3.0           Date Analyzed: 06/18/12 22:35
Lab Samp ID: F044-16                           Dilution Factor: 1
Lab File ID: SF18022B                          Matrix          : SOIL
Ext Btch ID: CPF017S                           % Moisture     : 11.4
Calib. Ref.: SF18007B                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	ND   (ND)	23	11   11	
AROCLOR 1221	ND   (ND)	23	11   11	
AROCLOR 1232	ND   (ND)	23	11   11	
AROCLOR 1242	ND   (ND)	23	11   11	
AROCLOR 1248	ND   (ND)	23	11   11	
AROCLOR 1254	ND   (ND)	23	11   11	
AROCLOR 1260	ND   (ND)	23	11   11	
AROCLOR 1262	ND   (ND)	23	11   11	
AROCLOR 1268	ND   (ND)	23	11   11	
AROCLOR 5432	ND   (ND)	45	23   23	
AROCLOR 5442	ND   (ND)	45	23   23	
AROCLOR 5460	ND   (ND)	45	23   23	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.19   (12.38)	15.05	74.4   (82.3)	45-120
TETRACHLORO-M-XYLENE	14.42   (14.12)	15.05	95.8   (93.9)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.  : 12F044                           Date Extracted: 06/15/12 16:30
Sample ID  : MBLK1S                           Date Analyzed: 06/18/12 15:42
Lab Samp ID: 60F017SB                        Dilution Factor: 1
Lab File ID: SF18010B                       Matrix          : SOIL
Ext Btch ID: CPF017S                         % Moisture     : NA
Calib. Ref.: SF18007B                       Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	ND   (ND)	20	10   10	
AROCLOR 1221	ND   (ND)	20	10   10	
AROCLOR 1232	ND   (ND)	20	10   10	
AROCLOR 1242	ND   (ND)	20	10   10	
AROCLOR 1248	ND   (ND)	20	10   10	
AROCLOR 1254	ND   (ND)	20	10   10	
AROCLOR 1260	ND   (ND)	20	10   10	
AROCLOR 1262	ND   (ND)	20	10   10	
AROCLOR 1268	ND   (ND)	20	10   10	
AROCLOR 5432	ND   (ND)	40	20   20	
AROCLOR 5442	ND   (ND)	40	20   20	
AROCLOR 5460	ND   (ND)	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.55   (12.97)	13.33	86.6   (97.3)	45-120
TETRACHLORO-M-XYLENE	11.43   (13.35)	13.33	85.7   (100)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F017SB 60F017SL 60F017SC  
LAB FILE ID: SF18010B SF18011B SF18012B  
DATE EXTRACTED: 06/15/1216:30 06/15/1216:30 06/15/1216:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/18/1215:42 06/18/1216:17 06/18/1216:52 DATE RECEIVED: 06/15/12  
PREP. BATCH: CPF017S CPF017S CPF017S  
CALIB. REF: SF18007B SF18007B SF18007B

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	ND   (ND)	167	134   (153)	80   (92)	167	126   (152)	76   (91)	6   (1)	50-130	50
Aroclor 1260	ND   (ND)	167	127   (156)	76   (94)	167	125   (144)	75   (86)	2   (8)	60-150	50
Aroclor 5460	ND   (ND)	83.3	91.5   (95.1)	110   (114)	83.3	87.3   (91.4)	105   (110)	5   (4)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	11.09   (12.16)	83.2   (91.3)	13.33	10.19   (11.48)	76.4   (86.1)	45-120
Tetrachloro-m-xylene	13.33	11.43   (12.85)	85.7   (96.4)	13.33	10.94   (11.92)	82.1   (89.4)	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: 13.8  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-546-SA5C-SB-4.0-5.0  
LAB SAMP ID: F044-02 F044-02M F044-02S  
LAB FILE ID: SF18014B SF18015B SF18016B  
DATE EXTRACTED: 06/15/1216:30 06/15/1216:30 06/15/1216:30 DATE COLLECTED: 06/06/12  
DATE ANALYZED: 06/18/1218:01 06/18/1218:35 06/18/1219:09 DATE RECEIVED: 06/06/12  
PREP. BATCH: CPF017S CPF017S CPF017S  
CALIB. REF: SF18007B SF18007B SF18007B

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	ND   (ND)	193	142   (173)	73   (89)	193	152   (188)	79   (97)	7   (8)	20-160	50
Aroclor 1260	ND   (ND)	193	153   (191)	79   (99)	193	161   (201)	83   (104)	5   (5)	20-160	50
Aroclor 5460	ND   (ND)	96.7	102   (105)	106   (109)	96.7	105   (109)	109   (113)	3   (4)	20-160	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	15.46	13.33   (14.61)	86.2   (94.4)	15.46	13.60   (15.29)	88.0   (98.9)	45-120
Tetrachloro-m-xylene	15.46	13.36   (13.94)	86.4   (90.2)	15.46	13.63   (13.82)	88.2   (89.4)	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/06/12
Project    : SSFL PHASE 3                     Date Received: 06/06/12
SDG NO.    : 12F044                           Date Extracted: 06/12/12 11:50
Sample ID  : SL-546-SA5C-SB-0.0-0.5          Date Analyzed: 06/14/12 15:10
Lab Samp ID: F044-01                          Dilution Factor: 0.995
Lab File ID: 98F07035                         Matrix          : SOIL
Ext Btch ID: IMF023S                          % Moisture     : 10.8
Calib. Ref.: 98F07025                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14100	112	13.4
Antimony	0.279J	0.558	0.112
Arsenic	4.19	0.558	0.223
Barium	115	0.558	0.223
Beryllium	0.660	0.558	0.0558
Boron	ND	5.58	2.79
Cadmium	0.298J	0.558	0.0558
Calcium	2700	22.3	11.2
Chromium	18.6	0.558	0.223
Cobalt	4.97	0.558	0.0558
Copper	11.1	0.558	0.223
Iron	18600	112	11.2
Lead	7.48	0.558	0.112
Magnesium	3610	11.2	5.58
Manganese	182	0.558	0.279
Molybdenum	0.597	0.558	0.0558
Nickel	11.2	0.558	0.223
Potassium	2660	112	33.5
Selenium	ND	0.558	0.223
Silver	ND	0.558	0.0558
Sodium	146	112	55.8
Strontium	27.9	0.558	0.279
Thallium	0.295J	0.446	0.0558
Tin	ND	11.2	5.58
Titanium	863	1.12	0.558
Vanadium	36.8	0.558	0.0558
Zinc	55.6	5.58	1.67
Lithium	13.5	2.23	1.12
Phosphorus	180	13.4	6.69
Zirconium	ND	5.58	2.79

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/06/12
Project     : SSFL PHASE 3                     Date Received: 06/06/12
SDG NO.    : 12F044                            Date Extracted: 06/12/12 11:50
Sample ID:  SL-546-SA5C-SB-4.0-5.0           Date Analyzed: 06/14/12 17:57 # 06/14/12 19:29
Lab Samp ID: F044-02 #F044-02I               Dilution Factor: 0.995 # 4.98
Lab File ID: 98F07069 #98F07082             Matrix      : SOIL
Ext Btch ID: IMF023S                          % Moisture  : 13.8
Calib. Ref.: 98F07061 #98F07073             Instrument ID : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18300	115	13.9
Antimony	0.216J	0.577	0.115
Arsenic	4.92	0.577	0.231
Barium	151	0.577	0.231
Beryllium	0.809	0.577	0.0577
Boron	ND	5.77	2.89
Cadmium	0.141J	0.577	0.0577
Calcium	3280	23.1	11.5
Chromium	21.0	0.577	0.231
Cobalt	5.40	0.577	0.0577
Copper	7.13	0.577	0.231
Iron	23300	115	11.5
Lead	6.99	0.577	0.115
Magnesium	4470	11.5	5.77
# Manganese	198	2.89	1.44
Molybdenum	0.402J	0.577	0.0577
Nickel	11.3	0.577	0.231
Potassium	1720	115	34.6
Selenium	ND	0.577	0.231
Silver	0.0624J	0.577	0.0577
Sodium	156	115	57.7
Strontium	33.4	0.577	0.289
Thallium	0.263J	0.462	0.0577
Tin	ND	11.5	5.77
Titanium	768	1.15	0.577
Vanadium	41.3	0.577	0.0577
Zinc	43.0	5.77	1.73
Lithium	16.5	2.31	1.15
Phosphorus	95.6	13.9	6.93
Zirconium	ND	5.77	2.89

# Members of the Associated File

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/06/12
Project     : SSFL PHASE 3                     Date Received: 06/06/12
SDG NO.    : 12F044                           Date Extracted: 06/12/12 11:50
Sample ID:  SL-546-SA5C-SB-9.0-10.0          Date Analyzed: 06/14/12 15:29
Lab Samp ID: F044-04                          Dilution Factor: 0.990
Lab File ID: 98F07039                         Matrix          : SOIL
Ext Btch ID: IMF023S                           % Moisture     : 13.8
Calib. Ref.: 98F07037                         Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15200	115	13.8
Antimony	0.231J	0.574	0.115
Arsenic	4.76	0.574	0.230
Barium	80.2	0.574	0.230
Beryllium	0.691	0.574	0.0574
Boron	ND	5.74	2.87
Cadmium	0.120J	0.574	0.0574
Calcium	3050	23.0	11.5
Chromium	18.2	0.574	0.230
Cobalt	5.40	0.574	0.0574
Copper	8.11	0.574	0.230
Iron	19900	115	11.5
Lead	5.42	0.574	0.115
Magnesium	3360	11.5	5.74
Manganese	161	0.574	0.287
Molybdenum	0.393J	0.574	0.0574
Nickel	9.61	0.574	0.230
Potassium	1360	115	34.5
Selenium	ND	0.574	0.230
Silver	ND	0.574	0.0574
Sodium	194	115	57.4
Strontium	27.5	0.574	0.287
Thallium	0.229J	0.459	0.0574
Tin	ND	11.5	5.74
Titanium	764	1.15	0.574
Vanadium	34.6	0.574	0.0574
Zinc	37.4	5.74	1.72
Lithium	16.8	2.30	1.15
Phosphorus	108	13.8	6.89
Zirconium	ND	5.74	2.87

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/06/12
Project     : SSFL PHASE 3                     Date Received: 06/06/12
SDG NO.    : 12F044                           Date Extracted: 06/12/12 11:50
Sample ID:  SL-846-SA5C-SB-4.0-5.0           Date Analyzed: 06/14/12 15:33
Lab Samp ID: F044-11                         Dilution Factor: 0.948
Lab File ID: 98F07040                       Matrix          : SOIL
Ext Btch ID: IMF023S                        % Moisture     : 14.6
Calib. Ref.: 98F07037                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	22600	111	13.3
Antimony	0.282J	0.555	0.111
Arsenic	6.22	0.555	0.222
Barium	224	0.555	0.222
Beryllium	0.943	0.555	0.0555
Boron	ND	5.55	2.78
Cadmium	0.566	0.555	0.0555
Calcium	3940	22.2	11.1
Chromium	25.7	0.555	0.222
Cobalt	16.6	0.555	0.0555
Copper	10.5	0.555	0.222
Iron	26800	111	11.1
Lead	9.74	0.555	0.111
Magnesium	5290	11.1	5.55
Manganese	1140	0.555	0.278
Molybdenum	0.579	0.555	0.0555
Nickel	24.4	0.555	0.222
Potassium	1880	111	33.3
Selenium	ND	0.555	0.222
Silver	0.0715J	0.555	0.0555
Sodium	175	111	55.5
Strontium	41.0	0.555	0.278
Thallium	0.404J	0.444	0.0555
Tin	ND	11.1	5.55
Titanium	732	1.11	0.555
Vanadium	48.8	0.555	0.0555
Zinc	50.9	5.55	1.67
Lithium	21.4	2.22	1.11
Phosphorus	120	13.3	6.66
Zirconium	ND	5.55	2.78

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.    : 12F044                           Date Extracted: 06/12/12 11:50
Sample ID   : MBLK1S                           Date Analyzed: 06/14/12 14:34
Lab Samp ID: IMF023SB                          Dilution Factor: 1
Lab File ID: 98F07027                          Matrix          : SOIL
Ext Btch ID: IMF023S                            % Moisture     : NA
Calib. Ref.: 98F07025                          Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F044  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF023SB IMF023SL IMF023SC  
LAB FILE ID: 98F07027 98F07028 98F07029  
DATIME EXTRACTD: 06/12/1211:50 06/12/1211:50 06/12/1211:50 DATE COLLECTED: NA  
DATIME ANALYZD: 06/14/1214:34 06/14/1214:39 06/14/1214:43 DATE RECEIVED: 06/12/12  
PREP. BATCH: IMF023S IMF023S IMF023S  
CALIB. REF: 98F07025 98F07025 98F07025

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2450	98	2500	2350	94	4	80-120	20
Antimony	ND	25.0	25.2	101	25.0	24.9	100	1	80-120	20
Arsenic	ND	25.0	24.3	97	25.0	23.7	95	2	80-120	20
Barium	ND	25.0	25.4	102	25.0	25.0	100	2	80-120	20
Beryllium	ND	25.0	26.5	106	25.0	24.9	100	6	80-120	20
Boron	ND	25.0	27.1	108	25.0	25.4	101	7	80-120	20
Cadmium	ND	25.0	24.8	99	25.0	24.3	97	2	80-120	20
Calcium	ND	2500	2620	105	2500	2610	104	1	80-120	20
Chromium	ND	25.0	24.6	99	25.0	23.9	96	3	80-120	20
Cobalt	ND	25.0	25.3	101	25.0	23.9	95	6	80-120	20
Copper	ND	25.0	24.5	98	25.0	23.6	95	4	80-120	20
Iron	ND	2500	2590	103	2500	2570	103	1	80-120	20
Lead	ND	25.0	25.0	100	25.0	24.7	99	1	80-120	20
Magnesium	ND	2500	2420	97	2500	2340	94	3	80-120	20
Manganese	ND	25.0	25.7	103	25.0	24.5	98	5	80-120	20
Molybdenum	ND	25.0	24.4	98	25.0	23.9	96	2	80-120	20
Nickel	ND	25.0	24.5	98	25.0	23.8	95	3	80-120	20
Potassium	ND	2500	2640	106	2500	2570	103	3	80-120	20
Selenium	ND	25.0	24.2	97	25.0	23.5	94	3	80-120	20
Silver	ND	25.0	25.0	100	25.0	24.0	96	4	80-120	20
Sodium	ND	2500	2570	103	2500	2530	101	1	80-120	20
Strontium	ND	25.0	24.9	100	25.0	24.0	96	4	80-120	20
Thallium	ND	25.0	25.2	101	25.0	24.5	98	3	80-120	20
Tin	ND	25.0	27.4	110	25.0	26.4	105	4	80-120	20
Titanium	ND	25.0	25.1	100	25.0	24.0	96	4	80-120	20
Vanadium	ND	25.0	24.4	98	25.0	23.6	94	4	80-120	20
Zinc	ND	50.0	47.5	95	50.0	46.5	93	2	80-120	20
Lithium	ND	25.0	26.1	105	25.0	24.9	100	5	80-120	20
Phosphorus	ND	250	233	93	250	225	90	3	80-120	20
Zirconium	ND	25.0	24.7	99	25.0	24.2	97	2	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F044  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 13.8  
DILTN FACTR: 0.995 0.980 0.966  
SAMPLE ID: SL-546-SA5C-SB-4.0-5.0  
CONTROL NO.: F044-02 F044-02M F044-02S  
LAB FILE ID: 98F07069 98F07030 98F07031  
DATIME EXTRACTD: 06/12/1211:50 06/12/1211:50 06/12/1211:50 DATE COLLECTED: 06/06/12  
DATIME ANALYZD: 06/14/1217:57 06/14/1214:48 06/14/1214:52 DATE RECEIVED: 06/06/12  
PREP. BATCH: IMF023S IMF023S IMF023S  
CALIB. REF: 98F07061 98F07025 98F07025

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	18300	2840	23800	196*	2800	22500	150*	6	75-125	20
Antimony	0.216J	28.4	24.0	84	28.0	23.3	82	3	75-125	20
Arsenic	4.92	28.4	31.0	92	28.0	30.7	92	1	75-125	20
Barium	151	28.4	187	129*	28.0	203	187*	8	75-125	20
Beryllium	0.809	28.4	29.6	101	28.0	29.2	101	2	75-125	20
Boron	ND	28.4	28.8	101	28.0	27.6	99	4	75-125	20
Cadmium	0.141J	28.4	27.9	98	28.0	27.9	99	0	75-125	20
Calcium	3280	2840	5910	93	2800	5790	90	2	75-125	20
Chromium	21.0	28.4	48.5	96	28.0	47.1	93	3	75-125	20
Cobalt	5.40	28.4	30.9	90	28.0	35.2	106	13	75-125	20
Copper	7.13	28.4	31.6	86	28.0	31.5	87	1	75-125	20
Iron	23300	2840	27800	160*	2800	26700	121	4	75-125	20
Lead	6.99	28.4	34.5	97	28.0	36.8	106	6	75-125	20
Magnesium	4470	2840	7140	94	2800	7080	93	1	75-125	20
#Manganese	198	28.4	275	271*	28.0	675	1700*	84*	75-125	20
Molybdenum	0.402J	28.4	27.5	95	28.0	27.6	97	0	75-125	20
Nickel	11.3	28.4	37.3	91	28.0	40.5	104	8	75-125	20
Potassium	1720	2840	4510	98	2800	4510	100	0	75-125	20
Selenium	ND	28.4	26.2	92	28.0	25.9	93	1	75-125	20
Silver	0.0624J	28.4	27.3	96	28.0	27.2	97	0	75-125	20
Sodium	156	2840	2750	91	2800	2690	90	2	75-125	20
Strontium	33.4	28.4	60.0	94	28.0	60.0	95	0	75-125	20
Thallium	0.263J	28.4	27.7	97	28.0	27.7	98	0	75-125	20
Tin	ND	28.4	31.6	111	28.0	31.5	112	0	75-125	20
Titanium	768	28.4	896	451*	28.0	834	236*	7	75-125	20
Vanadium	41.3	28.4	72.0	108	28.0	70.2	103	3	75-125	20
Zinc	43.0	56.8	97.7	96	56.0	95.7	94	2	75-125	20
Lithium	16.5	28.4	50.0	118	28.0	47.9	112	4	75-125	20
Phosphorus	95.6	284	350	90	280	339	87	3	75-125	20
Zirconium	ND	28.4	22.6	79	28.0	21.4	77	5	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F044  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 13.8  
DILT N FACTR: 0.995 0.995  
SAMPLE ID: SL-546-SA5C-SB-4.0-5.0  
CONTROL NO.: F044-02 F044-02A  
LAB FILE ID: 98F07069 98F07032  
DATIME EXTRACTD: 06/12/1211:50 06/12/1211:50 DATE COLLECTED: 06/06/12  
DATIME ANALYZD: 06/14/1217:57 06/14/1214:57 DATE RECEIVED: 06/06/12  
PREP. BATCH: IMF023S IMF023S  
CALIB. REF: 98F07061 98F07025

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	18300	2890	17800	-15*	75-125
Antimony	0.216J	28.9	29.1	100	75-125
Arsenic	4.92	28.9	31.0	90	75-125
Barium	151	28.9	112	-134*	75-125
Beryllium	0.809	28.9	28.6	96	75-125
Boron	ND	28.9	28.9	100	75-125
Cadmium	0.141J	28.9	28.5	98	75-125
Calcium	3280	2890	5980	93	75-125
Chromium	21.0	28.9	43.9	79	75-125
Cobalt	5.40	28.9	30.9	88	75-125
Copper	7.13	28.9	33.2	90	75-125
Iron	23300	2890	22800	-15*	75-125
Lead	6.99	28.9	33.0	90	75-125
Magnesium	4470	2890	6030	54*	75-125
#Manganese	198	144	329	91	75-125
Molybdenum	0.402J	28.9	28.7	98	75-125
Nickel	11.3	28.9	34.9	82	75-125
Potassium	1720	2890	4310	90	75-125
Selenium	ND	28.9	26.9	93	75-125
Silver	0.0624J	28.9	27.6	95	75-125
Sodium	156	2890	2980	98	75-125
Strontium	33.4	28.9	54.8	74*	75-125
Thallium	0.263J	28.9	28.5	98	75-125
Tin	ND	28.9	32.2	112	75-125
Titanium	768	28.9	797	102	75-125
Vanadium	41.3	28.9	60.5	66*	75-125
Zinc	43.0	57.7	89.3	80	75-125
Lithium	16.5	28.9	46.2	103	75-125
Phosphorus	95.6	289	379	98	75-125
Zirconium	ND	28.9	29.9	104	75-125

#F044-02A: Analyzed at DF 4.98 on 06/14/12 19:24 | File ID 98F07081

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 13.8  
DILUTION FACTOR: 0.995 4.98  
SAMPLE ID: SL-546-SA5C-SB SL-546-SA5C-SB  
EMAX SAMP ID: F044-02 F044-02J  
LAB FILE ID: 98F07069 98F07070  
DATE EXTRACTED: 06/12/1211:50 06/12/1211:50 DATE COLLECTED: 06/06/12  
DATE ANALYZED: 06/14/1217:57 06/14/1218:02 DATE RECEIVED: 06/06/12  
PREP. BATCH: IMF023S IMF023S  
CALIB. REF: 98F07061 98F07061

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	18300	19600	7	10
Antimony	0.216J	ND	NA	10
Arsenic	4.92	5.06	3	10
Barium	151	152	1	10
Beryllium	0.809	0.811J	NA	10
Boron	ND	ND	0	10
Cadmium	0.141J	ND	NA	10
Calcium	3280	3550	8	10
Chromium	21.0	22.8	8	10
Cobalt	5.40	5.99	11*	10
Copper	7.13	7.92	11*	10
Iron	23300	25300	9	10
Lead	6.99	7.09	1	10
Magnesium	4470	4860	9	10
#Manganese	198	207	4	10
Molybdenum	0.402J	0.400J	NA	10
Nickel	11.3	12.7	12*	10
Potassium	1720	1860	8	10
Selenium	ND	ND	0	10
Silver	0.0624J	ND	NA	10
Sodium	156	ND	NA	10
Strontium	33.4	33.7	1	10
Thallium	0.263J	ND	NA	10
Tin	ND	ND	0	10
Titanium	768	798	4	10
Vanadium	41.3	44.4	8	10
Zinc	43.0	44.7	4	10
Lithium	16.5	16.6	1	10
Phosphorus	95.6	115	20	10
Zirconium	ND	ND	0	10

#F044-02J: Analyzed at DF 24.9 on 06/14/12 19:33 | File ID 98F07083

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F044

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS			RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction			CAL REF	PREP BATCH	Collection	Received
		(mg/kg)	DLF	MOIST				DATETIME	LFID	DATETIME			DATETIME	DATETIME
MBLK1S	HGF015SB	ND	1	NA	0.100	0.0500	06/14/1215:21	06/14/1211:30	M47F009010	M47F009008	HGF015S	NA	06/14/12	
LCS1S	HGF015SL	0.812	1	NA	0.100	0.0500	06/14/1215:23	06/14/1211:30	M47F009011	M47F009008	HGF015S	NA	06/14/12	
LCD1S	HGF015SC	0.808	1	NA	0.100	0.0500	06/14/1215:25	06/14/1211:30	M47F009012	M47F009008	HGF015S	NA	06/14/12	
SL-546-SA5C-SB-4.0-5.0AS	F044-02A	1.03	0.993	13.8	0.115	0.0576	06/14/1215:27	06/14/1211:30	M47F009013	M47F009008	HGF015S	06/06/12	06/06/12	
SL-546-SA5C-SB-4.0-5.0	F044-02	ND	0.993	13.8	0.115	0.0576	06/14/1215:29	06/14/1211:30	M47F009014	M47F009008	HGF015S	06/06/12	06/06/12	
SL-546-SA5C-SB-4.0-5.0DL	F044-02J	ND	4.97	13.8	0.577	0.288	06/14/1215:31	06/14/1211:30	M47F009015	M47F009008	HGF015S	06/06/12	06/06/12	
SL-546-SA5C-SB-4.0-5.0MS	F044-02M	0.974	1.00	13.8	0.116	0.0580	06/14/1215:34	06/14/1211:30	M47F009016	M47F009008	HGF015S	06/06/12	06/06/12	
SL-546-SA5C-SB-4.0-5.0MSDF	F044-02S	0.960	0.987	13.8	0.115	0.0573	06/14/1215:36	06/14/1211:30	M47F009017	M47F009008	HGF015S	06/06/12	06/06/12	
SL-546-SA5C-SB-0.0-0.5	F044-01	ND	0.990	10.8	0.111	0.0555	06/14/1215:38	06/14/1211:30	M47F009018	M47F009008	HGF015S	06/06/12	06/06/12	
SL-546-SA5C-SB-9.0-10.0	F044-04	ND	1.00	13.8	0.116	0.0580	06/14/1215:40	06/14/1211:30	M47F009019	M47F009008	HGF015S	06/06/12	06/06/12	
SL-846-SA5C-SB-4.0-5.0	F044-11	ND	0.993	14.6	0.116	0.0581	06/14/1215:46	06/14/1211:30	M47F009022	M47F009020	HGF015S	06/06/12	06/06/12	

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F044  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF015SB HGF015SL HGF015SC  
LAB FILE ID: M47F009010 M47F009011 M47F009012  
DATIME EXTRCTD: 06/14/1211:30 06/14/1211:30 06/14/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/14/1215:21 06/14/1215:23 06/14/1215:25 DATE RECEIVED: 06/14/12  
PREP. BATCH: HGF015S HGF015S HGF015S  
CALIB. REF: M47F009008 M47F009008 M47F009008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.812	97	.833	.808	97	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F044  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 13.8  
DILTN FACTR: 0.993 1.00 0.987  
SAMPLE ID: SL-546-SA5C-SB-4.0-5.0  
CONTROL NO.: F044-02 F044-02M F044-02S  
LAB FILE ID: M47F009014 M47F009016 M47F009017  
DATIME EXTRCTD: 06/14/1211:30 06/14/1211:30 06/14/1211:30 DATE COLLECTED: 06/06/12  
DATIME ANALYZD: 06/14/1215:29 06/14/1215:34 06/14/1215:36 DATE RECEIVED: 06/06/12  
PREP. BATCH: HGF015S HGF015S HGF015S  
CALIB. REF: M47F009008 M47F009008 M47F009008

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.966	.974	101	.954	.96	101	0	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F044  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 13.8  
DILTN FACTR: 0.993 0.993  
SAMPLE ID: SL-546-SA5C-SB-4.0-5.0  
CONTROL NO.: F044-02 F044-02A  
LAB FILE ID: M47F009014 M47F009013  
DATIME EXTRCTD: 06/14/1211:30 06/14/1211:30 DATE COLLECTED: 06/06/12  
DATIME ANALYZD: 06/14/1215:29 06/14/1215:27 DATE RECEIVED: 06/06/12  
PREP. BATCH: HGF015S HGF015S  
CALIB. REF: M47F009008 M47F009008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.96	1.03	107	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F044  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 13.8  
 DILUTION FACTOR: 0.993 4.97  
 SAMPLE ID: SL-546-SA5C-SB-4.0- SL-546-SA5C-SB-4.0-  
 EMAX SAMP ID: F044-02 F044-02J  
 LAB FILE ID: M47F009014 M47F009015  
 DATE EXTRACTED: 06/14/1211:30 06/14/1211:30 DATE COLLECTED: 06/06/12  
 DATE ANALYZED: 06/14/1215:29 06/14/1215:31 DATE RECEIVED: 06/06/12  
 PREP. BATCH: HGF015S HGF015S  
 CALIB. REF: M47F009008 M47F009008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 7199  
 HEXAVALENT CHROMIUM

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F044

Matrix : SOIL  
 Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF		RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction		CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
			MOIST	NA				DATETIME	LFID				
MBLK1S	HCF005SB	ND	1	NA	1.00	0.500	06/14/1215:56	06/11/1216:46	IF14003	IF14001	HCF005S	NA	06/11/12
MBLK1S	HCF005SQ	ND	1	NA	1.00	0.500	06/14/1216:07	06/11/1216:46	IF14004	IF14001	HCF005S	NA	06/11/12
LCS1S	CSF005SL	8.73	1	NA	1.00	0.500	06/14/1216:46	06/11/1216:46	IF14005	IF14001	HCF005S	NA	06/11/12
LCS1S	CSF005SX	8.71	1	NA	1.00	0.500	06/14/1216:57	06/11/1216:46	IF14006	IF14001	HCF005S	NA	06/11/12
LCS2S	CIF005SL	204	10	NA	10.0	5.00	06/14/1217:07	06/11/1216:46	IF14007	IF14001	HCF005S	NA	06/11/12
LCS2S	CIF005SX	211	10	NA	10.0	5.00	06/14/1217:18	06/11/1216:46	IF14008	IF14001	HCF005S	NA	06/11/12
SL-568-SA5C-SB-0.0-0.5	F044-08	ND	1	12.8	1.15	0.573	06/14/1217:28	06/11/1216:46	IF14009	IF14001	HCF005S	06/06/1210:45	06/06/12
SL-568-SA5C-SB-0.0-0.5	F044-08R	ND	1	12.8	1.15	0.573	06/14/1217:39	06/11/1216:46	IF14010	IF14001	HCF005S	06/06/1210:45	06/06/12
SL-568-SA5C-SB-4.0-5.0	F044-09	ND	1	11.2	1.13	0.563	06/14/1217:49	06/11/1216:46	IF14011	IF14001	HCF005S	06/06/1211:00	06/06/12
SL-568-SA5C-SB-4.0-5.0	F044-09R	ND	1	11.2	1.13	0.563	06/14/1217:59	06/11/1216:46	IF14012	IF14001	HCF005S	06/06/1211:00	06/06/12
SL-568-SA5C-SB-9.0-10.0	F044-10	ND	1	13.6	1.16	0.579	06/14/1218:31	06/11/1216:46	IF14015	IF14013	HCF005S	06/06/1211:25	06/06/12
SL-568-SA5C-SB-9.0-10.0	F044-10R	ND	1	13.6	1.16	0.579	06/14/1218:41	06/11/1216:46	IF14016	IF14013	HCF005S	06/06/1211:25	06/06/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF005SB CSF005SL  
LAB FILE ID: IF14003 IF14005  
DATE EXTRACTED: 06/11/1216:46 06/11/1216:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1215:56 06/14/1216:46 DATE RECEIVED: 06/11/12  
PREP. BATCH: HCF005S HCF005S  
CALIB. REF: IF14001 IF14001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.73	87	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF005SQ CSF005SX  
LAB FILE ID: IF14004 IF14006  
DATE EXTRACTED: 06/11/1216:46 06/11/1216:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1216:07 06/14/1216:57 DATE RECEIVED: 06/11/12  
PREP. BATCH: HCF005S HCF005S  
CALIB. REF: IF14001 IF14001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
----- Hexavalent Chromium	ND	10.0	8.71	87	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF005SB CIF005SL  
LAB FILE ID: IF14003 IF14007  
DATE EXTRACTED: 06/11/1216:46 06/11/1216:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1215:56 06/14/1217:07 DATE RECEIVED: 06/11/12  
PREP. BATCH: HCF005S HCF005S  
CALIB. REF: IF14001 IF14001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	232	204	88	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F044  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF005SQ CIF005SX  
LAB FILE ID: IF14004 IF14008  
DATE EXTRACTED: 06/11/1216:46 06/11/1216:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1216:07 06/14/1217:18 DATE RECEIVED: 06/11/12  
PREP. BATCH: HCF005S HCF005S  
CALIB. REF: IF14001 IF14001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	232	211	91	80-120

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F044  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	RL			MDL	Analysis DATETIME	Extraction			CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
			DLF	MOIST	(pH Unit)			(pH Unit)	DATETIME	LFID				
SL-546-SA5C-SB-0.0-0.5	F044-01	7.85	1	NA	NA	NA	06/07/1213:39	06/07/1212:53	PHF00901	NA	PHF009S	06/06/1209:22	06/06/12	
SL-546-SA5C-SB-4.0-5.0	F044-02	7.61	1	NA	NA	NA	06/07/1213:40	06/07/1212:53	PHF00902	NA	PHF009S	06/06/1209:30	06/06/12	
SL-546-SA5C-SB-4.0-5.0	DUPF044-02D	7.61	1	NA	NA	NA	06/07/1213:42	06/07/1212:53	PHF00903	NA	PHF009S	06/06/1209:30	06/06/12	
SL-546-SA5C-SB-9.0-10.0	F044-04	8.13	1	NA	NA	NA	06/07/1213:43	06/07/1212:53	PHF00904	NA	PHF009S	06/06/1209:45	06/06/12	
SL-846-SA5C-SB-4.0-5.0	F044-11	7.38	1	NA	NA	NA	06/07/1213:44	06/07/1212:53	PHF00905	NA	PHF009S	06/06/1209:27	06/06/12	

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12F044	DATE RECEIVED:	06/06/12
SAMPLE ID:	SL-546-SA5C-SB-4.0-5.0DUP	DATE EXTRACTED:	06/07/12 12:53
CONTROL NO.:	F044-02D	DATE ANALYZED:	06/07/12 13:42

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH UNIT)	QC LIMIT (pH UNIT)
-----	-----	-----	-----	-----
pH	7.61	7.61	0	0.1

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 11:30
Sample ID    : EB1-060712                       Date Analyzed: 06/13/12 15:50
Lab Samp ID  : F051-01                          Dilution Factor: 1.03
Lab File ID  : RFL171                           Matrix          : WATER
Ext Btch ID  : SVF023W                          % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.21	0.10
ACENAPHTHYLENE	ND	0.21	0.10
ANTHRACENE	ND	0.21	0.10
BENZO (A) ANTHRACENE	ND	0.21	0.10
BENZO (A) PYRENE	ND	0.21	0.10
BENZO (B) FLUORANTHENE	ND	0.21	0.10
BENZO (K) FLUORANTHENE	ND	0.21	0.10
BENZO (G, H, I) PERYLENE	ND	0.21	0.10
CHRYSENE	ND	0.21	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.21	0.10
FLUORANTHENE	ND	0.21	0.10
FLUORENE	ND	0.21	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.21	0.10
NAPHTHALENE	ND	0.21	0.10
PHENANTHRENE	ND	0.21	0.10
2-METHYLNAPHTHALENE	ND	0.21	0.10
1-METHYLNAPHTHALENE	ND	0.21	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.21	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.21	0.10
BIPHENYL	ND	2.1	0.52

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	12.0	20.60	58.1	40-130
2-FLUOROBIPHENYL	10.6	20.60	51.3	45-130
TERPHENYL-D14	17.8	20.60	86.6	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 11:30
Sample ID    : EB2-060712                       Date Analyzed: 06/13/12 16:16
Lab Samp ID  : F051-02                           Dilution Factor: 1.08
Lab File ID  : RFL172                             Matrix          : WATER
Ext Btch ID  : SVF023W                           % Moisture     : NA
Calib. Ref.  : REL181                             Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.22	0.11
ACENAPHTHYLENE	ND	0.22	0.11
ANTHRACENE	ND	0.22	0.11
BENZO (A) ANTHRACENE	ND	0.22	0.11
BENZO (A) PYRENE	ND	0.22	0.11
BENZO (B) FLUORANTHENE	ND	0.22	0.11
BENZO (K) FLUORANTHENE	ND	0.22	0.11
BENZO (G, H, I) PERYLENE	ND	0.22	0.11
CHRYSENE	ND	0.22	0.11
DIBENZO (A, H) ANTHRACENE	ND	0.22	0.11
FLUORANTHENE	ND	0.22	0.11
FLUORENE	ND	0.22	0.11
INDENO (1, 2, 3-CD) PYRENE	ND	0.22	0.11
NAPHTHALENE	0.25	0.22	0.11
PHENANTHRENE	ND	0.22	0.11
2-METHYLNAPHTHALENE	ND	0.22	0.11
1-METHYLNAPHTHALENE	ND	0.22	0.11
N-NITROSODIMETHYLAMINE	ND	1.1	0.11
PYRENE	ND	0.22	0.11
AZOBENZENE	ND	1.1	0.11
BENZO (E) PYRENE	ND	0.22	0.11
BIPHENYL	ND	2.2	0.54

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	12.4	21.60	57.6	40-130
2-FLUOROBIPHENYL	11.2	21.60	51.8	45-130
TERPHENYL-D14	19.2	21.60	88.8	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 11:30
Sample ID    : MBLK1W                           Date Analyzed: 06/13/12 14:10
Lab Samp ID  : SVF023WB                         Dilution Factor: 1
Lab File ID  : RFL167                           Matrix          : WATER
Ext Btch ID  : SVF023W                           % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	13.8	20.00	69.1	40-130
2-FLUOROBIPHENYL	12.2	20.00	61.0	45-130
TERPHENYL-D14	19.1	20.00	95.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVF023WB SVF023WL SVF023WY  
LAB FILE ID: RFL167 RFL168 RFL191  
DATE EXTRACTED: 06/11/1211:30 06/11/1211:30 06/11/1211:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/13/1214:10 06/13/1214:33 06/14/1213:53 DATE RECEIVED: 06/11/12  
PREP. BATCH: SVF023W SVF023W SVF023W  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	32.0	80	40.0	26.9	67	17	20-130	30
Acenaphthylene	ND	40.0	32.7	82	40.0	26.9	67	20	30-140	30
Anthracene	ND	40.0	36.4	91	40.0	37.8	94	4	40-130	30
Benzo (a) anthracene	ND	40.0	37.2	93	40.0	39.8	100	7	50-130	30
Benzo (a) pyrene	ND	40.0	40.0	100	40.0	43.0	107	7	50-130	30
Benzo (b) fluoranthene	ND	40.0	41.3	103	40.0	42.8	107	4	50-130	30
Benzo (k) fluoranthene	ND	40.0	37.8	95	40.0	41.9	105	10	50-130	30
Benzo (g, h, i) perylene	ND	40.0	38.0	95	40.0	41.6	104	9	30-150	30
Chrysene	ND	40.0	38.6	96	40.0	39.5	99	2	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	39.8	99	40.0	44.7	112	12	40-140	30
Fluoranthene	ND	40.0	41.1	103	40.0	40.5	101	1	40-130	30
Fluorene	ND	40.0	32.7	82	40.0	29.9	75	9	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	39.8	100	40.0	44.5	111	11	40-130	30
Naphthalene	ND	40.0	28.3	71	40.0	21.3	53	28	20-130	30
Phenanthrene	ND	40.0	37.6	94	40.0	38.4	96	2	40-130	30
2-Methylnaphthalene	ND	40.0	31.1	78	40.0	23.3	58	29	30-150	30
1-Methylnaphthalene	ND	40.0	34.7	87	40.0	25.6	64	30	40-150	30
N-Nitrosodimethylamine	ND	40.0	39.1	98	40.0	31.0	78	23	20-150	30
Pyrene	ND	40.0	40.9	102	40.0	40.8	102	0	40-130	30
Azobenzene	ND	40.0	32.1	80	40.0	32.2	80	0	30-150	30
Benzo (e) pyrene	ND	40.0	37.4	93	40.0	38.7	97	3	30-150	30
Biphenyl	ND	40.0	29.3	73	40.0	23.1	58	24	30-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	13.5	67	20.0	10.5	53	40-130
2-Fluorobiphenyl	20.0	12.6	63	20.0	10.0	50	45-130
Terphenyl-d14	20.0	18.4	92	20.0	19.2	96	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/14/12 11:45
Sample ID    : SL-537-SA5C-SB-0.0-0.5          Date Analyzed: 06/14/12 15:30
Lab Samp ID  : F051-06                          Dilution Factor: 1
Lab File ID  : RFL195                           Matrix          : SOIL
Ext Btch ID  : SVF029S                          % Moisture     : 11.9
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	4.1J	11	2.8
BENZO (A) PYRENE	3.8J	11	2.8
BENZO (B) FLUORANTHENE	4.5J	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	3.5J	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	8.8J	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	5.0J	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	8.6J	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	221	378.3	58.4	40-130
2-FLUOROBIPHENYL	199	378.3	52.5	45-130
TERPHENYL-D14	331	378.3	87.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/14/12 11:45
Sample ID:   SL-537-SA5C-SB-4.0-5.0            Date Analyzed: 06/14/12 15:56
Lab Samp ID: F051-07                            Dilution Factor: 1
Lab File ID: RFL196                             Matrix          : SOIL
Ext Btch ID: SVF029S                            % Moisture     : 13.8
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	246	386.7	63.7	40-130
2-FLUOROBIPHENYL	206	386.7	53.4	45-130
TERPHENYL-D14	342	386.7	88.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/15/12 15:00
Sample ID:   SL-537-SA5C-SB-9.0-10.0           Date Analyzed: 06/18/12 19:53
Lab Samp ID: F051-09R                           Dilution Factor: 1
Lab File ID: RFL258                             Matrix          : SOIL
Ext Btch ID: SVF033S                            % Moisture     : 13.9
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	219	387.1	56.6	40-130
2-FLUOROBIPHENYL	193	387.1	49.8	45-130
TERPHENYL-D14	263	387.1	68.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/14/12 11:45
Sample ID:   SL-547-SA5C-SB-4.0-5.0           Date Analyzed: 06/14/12 16:47
Lab Samp ID: F051-11                           Dilution Factor: 1
Lab File ID: RFL198                            Matrix          : SOIL
Ext Btch ID: SVF029S                          % Moisture     : 9.6
Calib. Ref.: REL181                            Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	165	368.7	44.7	40-130
2-FLUOROBIPHENYL	154	368.7	41.8*	45-130
TERPHENYL-D14	293	368.7	79.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                          Date Extracted: 06/14/12 11:45
Sample ID    : SL-547-SA5C-SB-9.0-10.0        Date Analyzed: 06/14/12 19:25
Lab Samp ID  : F051-13                         Dilution Factor: 1
Lab File ID  : RFL204                          Matrix          : SOIL
Ext Btch ID  : SVF029S                         % Moisture     : 7.7
Calib. Ref.  : REL181                          Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	207	361.1	57.4	40-130
2-FLUOROBIPHENYL	206	361.1	57.0	45-130
TERPHENYL-D14	318	361.1	87.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/14/12 11:45
Sample ID    : SL-548-SA5C-SB-4.0-5.0          Date Analyzed: 06/14/12 17:13
Lab Samp ID  : F051-15                           Dilution Factor: 1
Lab File ID  : RFL199                             Matrix          : SOIL
Ext Btch ID  : SVF029S                           % Moisture     : 13.2
Calib. Ref.  : REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	238	384.0	62.0	40-130
2-FLUOROBIPHENYL	200	384.0	52.1	45-130
TERPHENYL-D14	339	384.0	88.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/14/12 11:45
Sample ID:   SL-559-SA5C-SB-0.0-0.5            Date Analyzed: 06/14/12 19:52
Lab Samp ID: F051-18                             Dilution Factor: 2
Lab File ID: RFL205                               Matrix          : SOIL
Ext Btch ID: SVF029S                             % Moisture     : 14.1
Calib. Ref.: REL181                              Instrument ID  : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	23	5.8
ACENAPHTHYLENE	ND	23	5.8
ANTHRACENE	ND	23	5.8
BENZO (A) ANTHRACENE	15J	23	5.8
BENZO (A) PYRENE	6.8J	23	5.8
BENZO (B) FLUORANTHENE	9.9J	23	5.8
BENZO (K) FLUORANTHENE	7.2J	23	5.8
BENZO (G, H, I) PERYLENE	ND	23	5.8
CHRYSENE	ND	23	5.8
DIBENZO (A, H) ANTHRACENE	ND	23	5.8
FLUORANTHENE	6.0J	23	5.8
FLUORENE	ND	23	5.8
INDENO (1, 2, 3-CD) PYRENE	ND	23	5.8
NAPHTHALENE	ND	23	5.8
PHENANTHRENE	ND	23	5.8
2-METHYLNAPHTHALENE	ND	23	5.8
1-METHYLNAPHTHALENE	ND	23	5.8
N-NITROSODIMETHYLAMINE	ND	23	5.8
PYRENE	7.2J	23	5.8
AZOBENZENE	ND	12	5.8
BENZO (E) PYRENE	10J	12	5.8
BIPHENYL	ND	12	5.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	233	388.0	59.9	40-130
2-FLUOROBIPHENYL	158	388.0	40.7*	45-130
TERPHENYL-D14	348	388.0	89.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/14/12 11:45
Sample ID:   SL-559-SA5C-SB-2.0-3.0           Date Analyzed: 06/14/12 20:18
Lab Samp ID: F051-19                           Dilution Factor: 2
Lab File ID: RFL206                             Matrix          : SOIL
Ext Btch ID: SVF029S                           % Moisture     : 14.6
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	23	5.9
ACENAPHTHYLENE	ND	23	5.9
ANTHRACENE	ND	23	5.9
BENZO (A) ANTHRACENE	8.4J	23	5.9
BENZO (A) PYRENE	ND	23	5.9
BENZO (B) FLUORANTHENE	6.7J	23	5.9
BENZO (K) FLUORANTHENE	ND	23	5.9
BENZO (G, H, I) PERYLENE	ND	23	5.9
CHRYSENE	ND	23	5.9
DIBENZO (A, H) ANTHRACENE	ND	23	5.9
FLUORANTHENE	ND	23	5.9
FLUORENE	ND	23	5.9
INDENO (1, 2, 3-CD) PYRENE	ND	23	5.9
NAPHTHALENE	ND	23	5.9
PHENANTHRENE	ND	23	5.9
2-METHYLNAPHTHALENE	ND	23	5.9
1-METHYLNAPHTHALENE	ND	23	5.9
N-NITROSODIMETHYLAMINE	ND	23	5.9
PYRENE	ND	23	5.9
AZOBENZENE	ND	12	5.9
BENZO (E) PYRENE	7.4J	12	5.9
BIPHENYL	ND	12	5.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	226	390.3	57.8	40-130
2-FLUOROBIPHENYL	149	390.3	38.2*	45-130
TERPHENYL-D14	324	390.3	83.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                          Date Extracted: 06/15/12 15:00
Sample ID:   SL-559-SA5C-SB-7.0-8.0           Date Analyzed: 06/18/12 20:45
Lab Samp ID: F051-21R                         Dilution Factor: 1
Lab File ID: RFL260                           Matrix          : SOIL
Ext Btch ID: SVF033S                          % Moisture     : 13.3
Calib. Ref.: REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	257	384.4	66.8	40-130
2-FLUOROBIPHENYL	235	384.4	61.0	45-130
TERPHENYL-D14	360	384.4	93.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/14/12 11:45
Sample ID:   SL-548-SA5C-SB-9.0-10.0           Date Analyzed: 06/14/12 18:59
Lab Samp ID: F051-23                            Dilution Factor: 1
Lab File ID: RFL203                             Matrix          : SOIL
Ext Btch ID: SVF029S                            % Moisture     : 11.7
Calib. Ref.: REL181                             Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	3.5J	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	6.0J	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	4.8J	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	6.2J	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	224	377.5	59.4	40-130
2-FLUOROBIPHENYL	190	377.5	50.4	45-130
TERPHENYL-D14	328	377.5	86.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/14/12
Batch No.    : 12F051                          Date Extracted: 06/14/12 11:45
Sample ID    : MBLK1S                          Date Analyzed: 06/14/12 15:05
Lab Samp ID  : SVF029SB                       Dilution Factor: 1
Lab File ID  : RFL194                         Matrix          : SOIL
Ext Btch ID  : SVF029S                       % Moisture     : NA
Calib. Ref.  : REL181                        Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	244	333.3	73.2	40-130
2-FLUOROBIPHENYL	213	333.3	64.0	45-130
TERPHENYL-D14	318	333.3	95.4	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF029SB SVF029SL SVF029SC  
LAB FILE ID: RFL194 RFL192 RFL193  
DATE EXTRACTED: 06/14/1211:45 06/14/1211:45 06/14/1211:45 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1215:05 06/14/1214:17 06/14/1214:39 DATE RECEIVED: 06/14/12  
PREP. BATCH: SVF029S SVF029S SVF029S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	265	80	333	259	78	2	10-130	50
Acenaphthylene	ND	333	268	80	333	259	78	3	20-130	50
Anthracene	ND	333	276	83	333	281	84	2	20-130	50
Benzo (a) anthracene	ND	333	288	86	333	305	91	6	30-130	50
Benzo (a) pyrene	ND	333	301	90	333	319	96	6	30-130	50
Benzo (b) fluoranthene	ND	333	331	99	333	339	102	2	40-130	50
Benzo (k) fluoranthene	ND	333	296	89	333	313	94	5	30-140	50
Benzo (g, h, i) perylene	ND	333	288	86	333	307	92	6	30-140	50
Chrysene	ND	333	301	90	333	306	92	2	30-140	50
Dibenzo (a, h) anthracene	ND	333	310	93	333	324	97	5	40-140	50
Fluoranthene	ND	333	303	91	333	314	94	4	30-130	50
Fluorene	ND	333	256	77	333	252	76	1	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	309	93	333	325	97	5	20-160	50
Naphthalene	ND	333	231	69	333	238	71	3	10-130	50
Phenanthrene	ND	333	281	84	333	296	89	5	20-130	50
2-Methylnaphthalene	ND	333	251	75	333	255	76	1	30-150	50
1-Methylnaphthalene	ND	333	267	80	333	268	80	0	30-150	50
N-Nitrosodimethylamine	ND	333	329	99	333	341	102	3	30-150	50
Pyrene	ND	333	305	92	333	314	94	3	20-150	50
Azobenzene	ND	333	256	77	333	259	78	1	30-150	50
Benzo (e) pyrene	ND	333	290	87	333	295	88	2	30-150	50
Biphenyl	ND	333	233	70	333	221	66	6	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	250	75	333	239	72	40-130
2-Fluorobiphenyl	333	235	71	333	218	65	45-130
Terphenyl-d14	333	298	90	333	295	89	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.   : 12F051                           Date Extracted: 06/15/12 15:00
Sample ID   : MBLK2S                           Date Analyzed: 06/18/12 15:34
Lab Samp ID: SVF033SB                         Dilution Factor: 1
Lab File ID: RFL248                           Matrix          : SOIL
Ext Btch ID: SVF033S                          % Moisture     : NA
Calib. Ref.: REL181                          Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	250	333.3	75.1	40-130
2-FLUOROBIPHENYL	241	333.3	72.3	45-130
TERPHENYL-D14	323	333.3	96.8	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2S  
LAB SAMP ID: SVF033SB SVF033SL SVF033SC  
LAB FILE ID: RFL248 RFL249 RFL250  
DATE EXTRACTED: 06/15/1215:00 06/15/1215:00 06/15/1215:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/18/1215:34 06/18/1216:00 06/18/1216:26 DATE RECEIVED: 06/15/12  
PREP. BATCH: SVF033S SVF033S SVF033S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	264	79	333	290	87	10	10-130	50
Acenaphthylene	ND	333	266	80	333	308	92	15	20-130	50
Anthracene	ND	333	279	84	333	310	93	11	20-130	50
Benzo (a) anthracene	ND	333	290	87	333	337	101	15	30-130	50
Benzo (a) pyrene	ND	333	321	96	333	355	107	10	30-130	50
Benzo (b) fluoranthene	ND	333	330	99	333	384	115	15	40-130	50
Benzo (k) fluoranthene	ND	333	333	100	333	350	105	5	30-140	50
Benzo (g, h, i) perylene	ND	333	300	90	333	328	98	9	30-140	50
Chrysene	ND	333	298	89	333	344	103	14	30-140	50
Dibenzo (a, h) anthracene	ND	333	317	95	333	345	103	8	40-140	50
Fluoranthene	ND	333	312	94	333	350	105	11	30-130	50
Fluorene	ND	333	265	80	333	292	88	10	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	321	96	333	340	102	6	20-160	50
Naphthalene	ND	333	258	77	333	291	87	12	10-130	50
Phenanthrene	ND	333	294	88	333	323	97	10	20-130	50
2-Methylnaphthalene	ND	333	258	78	333	289	87	11	30-150	50
1-Methylnaphthalene	ND	333	273	82	333	305	92	11	30-150	50
N-Nitrosodimethylamine	ND	333	348	104	333	397	119	13	30-150	50
Pyrene	ND	333	314	94	333	348	105	10	20-150	50
Azobenzene	ND	333	256	77	333	289	87	12	30-150	50
Benzo (e) pyrene	ND	333	346	104	333	356	107	3	30-150	50
Biphenyl	ND	333	260	78	333	268	80	3	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	262	78	333	256	77	40-130
2-Fluorobiphenyl	333	255	76	333	244	73	45-130
Terphenyl-d14	333	338	102	333	326	98	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 13.3  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-559-SA5C-SB-7.0-8.0  
LAB SAMP ID: F051-21R F051-21M F051-21S  
LAB FILE ID: RFL260 RFL251 RFL252  
DATE EXTRACTED: 06/15/1215:00 06/15/1215:00 06/15/1215:00 DATE COLLECTED: 06/07/12  
DATE ANALYZED: 06/18/1220:45 06/18/1216:51 06/18/1217:17 DATE RECEIVED: 06/07/12  
PREP. BATCH: SVF033S SVF033S SVF033S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	384	307	80	384	293	76	5	10-130	50
Acenaphthylene	ND	384	325	85	384	319	83	2	20-130	50
Anthracene	ND	384	318	83	384	302	79	5	20-130	50
Benzo (a) anthracene	ND	384	351	91	384	335	87	5	30-130	50
Benzo (a) pyrene	ND	384	356	93	384	335	87	6	30-130	50
Benzo (b) fluoranthene	ND	384	419	109	384	393	102	6	30-130	50
Benzo (k) fluoranthene	ND	384	369	96	384	339	88	8	30-130	50
Benzo (g, h, i) perylene	ND	384	336	88	384	330	86	2	30-140	50
Chrysene	ND	384	361	94	384	345	90	5	20-130	50
Dibenzo (a, h) anthracene	ND	384	356	93	384	349	91	2	30-130	50
Fluoranthene	ND	384	374	97	384	352	92	6	30-150	50
Fluorene	ND	384	311	81	384	298	78	4	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	384	351	91	384	344	90	2	20-160	50
Naphthalene	ND	384	299	78	384	289	75	3	10-130	50
Phenanthrene	ND	384	347	90	384	333	87	4	20-130	50
2-Methylnaphthalene	ND	384	297	77	384	292	76	2	30-150	50
1-Methylnaphthalene	ND	384	313	81	384	308	80	1	30-150	50
N-Nitrosodimethylamine	ND	384	423	110	384	423	110	0	20-150	50
Pyrene	ND	384	373	97	384	354	92	5	10-160	50
Azobenzene	ND	384	306	80	384	288	75	6	30-150	50
Benzo (e) pyrene	ND	384	353	92	384	332	86	6	30-150	50
Biphenyl	ND	384	268	70	384	260	68	3	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	384	271	71	384	289	75	40-130
2-Fluorobiphenyl	384	267	69	384	271	70	45-130
Terphenyl-d14	384	362	94	384	363	94	45-135

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/12/12 11:24
Sample ID    : EB1-060712                       Date Analyzed: 06/12/12 11:24
Lab Samp ID  : F051-01                           Dilution Factor: 1
Lab File ID  : EF10068A                          Matrix          : WATER
Ext Btch ID  : VG39F07                            % Moisture      : NA
Calib. Ref.  : EF10064A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	18J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	34.7	40.00	86.6 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/12/12 12:07
Sample ID    : EB2-060712                       Date Analyzed: 06/12/12 12:07
Lab Samp ID  : F051-02                           Dilution Factor: 1
Lab File ID  : EF10069A                         Matrix          : WATER
Ext Btch ID  : VG39F07                           % Moisture     : NA
Calib. Ref.  : EF10064A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	20J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	32.4	40.00	81.1 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/12/12
Batch No.  : 12F051                             Date Extracted: 06/12/12 10:41
Sample ID  : MBLK1W                             Date Analyzed: 06/12/12 10:41
Lab Samp ID: VG39F07B                          Dilution Factor: 1
Lab File ID: EF10067A                          Matrix          : WATER
Ext Btch ID: VG39F07                            % Moisture     : NA
Calib. Ref.: EF10064A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	32.5	40.00	81.3 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F07B VG39F07L VG39F07C  
LAB FILE ID: EF10067A EF10065A EF10066A  
DATE EXTRACTED: 06/12/1210:41 06/12/1209:15 06/12/1209:58 DATE COLLECTED: NA  
DATE ANALYZED: 06/12/1210:41 06/12/1209:15 06/12/1209:58 DATE RECEIVED: 06/12/12  
PREP. BATCH: VG39F07 VG39F07 VG39F07  
CALIB. REF: EF10064A EF10064A EF10064A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	434	87	500	390	78	10	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	40.7	102	40.0	36.4	91	60-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.   : 12F051                           Date Extracted: 06/10/12 22:49
Sample ID:  SL-537-SA5C-SB-5.0                 Date Analyzed: 06/10/12 22:49
Lab Samp ID: F051-08                           Dilution Factor: 0.88
Lab File ID: EF10017A                          Matrix          : SOIL
Ext Btch ID: GMF005S                            % Moisture     : 13.4
Calib. Ref.: EF10012A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.71	2.032	84.2 70-140

RL : Reporting Limit  
 Methanol Extraction Date : 06/08/12 15:28

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/10/12 23:32
Sample ID:   SL-537-SA5C-SB-10.0                Date Analyzed: 06/10/12 23:32
Lab Samp ID: F051-10                            Dilution Factor: 0.89
Lab File ID: EF10018A                           Matrix          : SOIL
Ext Btch ID: GMF005S                             % Moisture     : 11.3
Calib. Ref.: EF10012A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.73	2.007	86.0 70-140

RL : Reporting Limit  
 Methanol Extraction Date : 06/08/12 15:28

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/11/12 00:15
Sample ID:   SL-547-SA5C-SB-5.0                  Date Analyzed: 06/11/12 00:15
Lab Samp ID: F051-12                             Dilution Factor: 0.86
Lab File ID: EF10019A                            Matrix          : SOIL
Ext Btch ID: GMF005S                             % Moisture     : 12.5
Calib. Ref.: EF10012A                            Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.98	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.75	1.966	88.8 70-140

RL : Reporting Limit  
 Methanol Extraction Date : 06/08/12 15:28

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 00:58
Sample ID:   SL-547-SA5C-SB-10.0                Date Analyzed: 06/11/12 00:58
Lab Samp ID: F051-14                             Dilution Factor: 1.02
Lab File ID: EF10020A                            Matrix          : SOIL
Ext Btch ID: GMF005S                             % Moisture     : 7.4
Calib. Ref.: EF10012A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.55
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.00	2.203	90.6 70-140

RL : Reporting Limit  
 Methanol Extraction Date : 06/08/12 15:28

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 01:41
Sample ID:   SL-548-SA5C-SB-5.0                 Date Analyzed: 06/11/12 01:41
Lab Samp ID: F051-16                             Dilution Factor: 0.84
Lab File ID: EF10021A                            Matrix          : SOIL
Ext Btch ID: GMF005S                             % Moisture     : 14.3
Calib. Ref.: EF10012A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.98	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.66	1.960	84.7 70-140

RL : Reporting Limit  
 Methanol Extraction Date : 06/08/12 15:28

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/07/12
Project    : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.  : 12F051                             Date Extracted: 06/11/12 02:24
Sample ID: SL-548-SA5C-SB-10.0                 Date Analyzed: 06/11/12 02:24
Lab Samp ID: F051-17                           Dilution Factor: 0.81
Lab File ID: EF10022A                          Matrix          : SOIL
Ext Btch ID: GMF005S                            % Moisture     : 13.1
Calib. Ref.: EF10012A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.93	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.67	1.864	89.5 70-140

RL : Reporting Limit  
 Methanol Extraction Date : 06/08/12 15:28

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 03:50
Sample ID:   SL-559-SA5C-SB-3.0                 Date Analyzed: 06/11/12 03:50
Lab Samp ID: F051-20                             Dilution Factor: 0.87
Lab File ID: EF10024A                           Matrix          : SOIL
Ext Btch ID: GMF005S                             % Moisture     : 15.6
Calib. Ref.: EF10023A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.68	2.062	81.5	70-140

RL : Reporting Limit  
 Methanol Extraction Date : 06/08/12 15:28

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 04:33
Sample ID:   SL-559-SA5C-SB-8.0                 Date Analyzed: 06/11/12 04:33
Lab Samp ID: F051-22                             Dilution Factor: 0.85
Lab File ID: EF10025A                            Matrix          : SOIL
Ext Btch ID: GMF005S                              % Moisture     : 15.7
Calib. Ref.: EF10023A                            Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.68	2.017	83.1 70-140

RL : Reporting Limit  
 Methanol Extraction Date : 06/08/12 15:28

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/07/12
Project    : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.  : 12F051                             Date Extracted: 06/11/12 05:16
Sample ID: SL-571-SA5C-SB-5.0                 Date Analyzed: 06/11/12 05:16
Lab Samp ID: F051-25                          Dilution Factor: 1.14
Lab File ID: EF10026A                         Matrix          : SOIL
Ext Btch ID: GMF005S                          % Moisture     : 10.3
Calib. Ref.: EF10023A                         Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.3	0.64
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.38	2.542	93.5 70-140

RL : Reporting Limit  
 Methanol Extraction Date : 06/08/12 15:28

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/11/12 05:59
Sample ID:   SL-571-SA5C-SB-10.0                 Date Analyzed: 06/11/12 05:59
Lab Samp ID: F051-27                             Dilution Factor: 0.83
Lab File ID: EF10027A                            Matrix          : SOIL
Ext Btch ID: GMF005S                              % Moisture     : 11.0
Calib. Ref.: EF10023A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.93	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.65	1.865	88.3 70-140

RL : Reporting Limit  
 Methanol Extraction Date : 06/08/12 15:28

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/12/12 12:50
Sample ID    : TB-060712                        Date Analyzed: 06/12/12 12:50
Lab Samp ID  : F051-28                          Dilution Factor: 1
Lab File ID  : EF10070A                         Matrix          : WATER
Ext Btch ID  : VG39F07                          % Moisture     : NA
Calib. Ref.  : EF10064A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	23J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	33.1	40.00	82.8 60-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/10/12
Batch No.  : 12F051                             Date Extracted: 06/10/12 21:22
Sample ID  : MBLK1S                             Date Analyzed: 06/10/12 21:22
Lab Samp ID: GMF005SB                           Dilution Factor: 1
Lab File ID: EF10015A                           Matrix          : SOIL
Ext Btch ID: GMF005S                             % Moisture     : NA
Calib. Ref.: EF10012A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.86	2.000	92.8	60-130

RL : Reporting Limit  
 Methanol Extraction Date : 06/08/12 15:28

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF005SB GMF005SL GMF005SC  
LAB FILE ID: EF10015A EF10013A EF10014A  
DATE EXTRACTED: 06/10/1221:22 06/10/1219:56 06/10/1220:39 DATE COLLECTED: NA  
DATE ANALYZED: 06/10/1221:22 06/10/1219:56 06/10/1220:39 DATE RECEIVED: 06/10/12  
PREP. BATCH: GMF005S GMF005S GMF005S  
CALIB. REF: EF10012A EF10012A EF10012A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	20.1	80	25.0	20.3	81	1	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.21	111	2.00	2.23	112	60-130

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/11/12 15:11
Sample ID    : EB1-060712                         Date Analyzed: 06/11/12 15:11
Lab Samp ID  : F051-01                            Dilution Factor: 1
Lab File ID  : BF11018A                          Matrix          : WATER
Ext Btch ID  : MEF003W                            % Moisture     : NA
Calib. Ref.  : BF11014A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                          Date Extracted: 06/11/12 15:27
Sample ID    : EB2-060712                      Date Analyzed: 06/11/12 15:27
Lab Samp ID  : F051-02                         Dilution Factor: 1
Lab File ID  : BF11019A                       Matrix          : WATER
Ext Btch ID  : MEF003W                        % Moisture     : NA
Calib. Ref.  : BF11014A                       Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.   : 12F051                           Date Extracted: 06/11/12 14:15
Sample ID   : MBLK1W                           Date Analyzed: 06/11/12 14:15
Lab Samp ID: MEF003WB                         Dilution Factor: 1
Lab File ID: BF11015A                        Matrix          : WATER
Ext Btch ID: MEF003W                          % Moisture     : NA
Calib. Ref.: BF11014A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 8015B

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: MEF003WB MEF003WL MEF003WC  
LAB FILE ID: BF11015A BF11016A BF11017A  
DATE EXTRACTED: 06/11/1214:15 06/11/1214:32 06/11/1214:55 DATE COLLECTED: NA  
DATE ANALYZED: 06/11/1214:15 06/11/1214:32 06/11/1214:55 DATE RECEIVED: 06/11/12  
PREP. BATCH: MEF003W MEF003W MEF003W  
CALIB. REF: BF11014A BF11014A BF11014A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	10200	102	10000	9390	94	9	50-150	30
Isopropanol	ND	10000	10200	102	10000	10200	102	0	50-150	30
Methanol	ND	10000	10800	108	10000	10500	105	3	50-150	30

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/08/12 10:20
Sample ID:   SL-537-SA5C-SB-0.0-0.5           Date Analyzed: 06/11/12 17:13
Lab Samp ID: F051-06                           Dilution Factor: 1
Lab File ID: BF11025A                         Matrix          : SOIL
Ext Btch ID: MEF006S                          % Moisture     : 11.9
Calib. Ref.: BF11021A                         Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	570	280
ISOPROPANOL	ND	570	280
METHANOL	ND	570	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/08/12 10:20
Sample ID:   SL-537-SA5C-SB-4.0-5.0              Date Analyzed: 06/12/12 10:31
Lab Samp ID: F051-07                             Dilution Factor: 1
Lab File ID: BF12006A                           Matrix          : SOIL
Ext Btch ID: MEF006S                             % Moisture     : 13.8
Calib. Ref.: BF12002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/08/12 10:20
Sample ID:   SL-537-SA5C-SB-9.0-10.0           Date Analyzed: 06/12/12 10:48
Lab Samp ID: F051-09                            Dilution Factor: 1
Lab File ID: BF12007A                          Matrix          : SOIL
Ext Btch ID: MEF006S                            % Moisture     : 13.9
Calib. Ref.: BF12002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/08/12 10:20
Sample ID:   SL-547-SA5C-SB-4.0-5.0           Date Analyzed: 06/12/12 11:09
Lab Samp ID: F051-11                           Dilution Factor: 1
Lab File ID: BF12008A                          Matrix          : SOIL
Ext Btch ID: MEF006S                           % Moisture     : 9.6
Calib. Ref.: BF12002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	550	280
ISOPROPANOL	ND	550	280
METHANOL	ND	550	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/08/12 10:20
Sample ID:   SL-547-SA5C-SB-9.0-10.0             Date Analyzed: 06/12/12 11:24
Lab Samp ID: F051-13                             Dilution Factor: 1
Lab File ID: BF12009A                            Matrix          : SOIL
Ext Btch ID: MEF006S                             % Moisture     : 7.7
Calib. Ref.: BF12002A                            Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	540	270
ISOPROPANOL	ND	540	270
METHANOL	ND	540	270

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/08/12 10:20
Sample ID:   SL-548-SA5C-SB-4.0-5.0           Date Analyzed: 06/12/12 11:39
Lab Samp ID: F051-15                           Dilution Factor: 1
Lab File ID: BF12010A                          Matrix          : SOIL
Ext Btch ID: MEF006S                           % Moisture     : 13.2
Calib. Ref.: BF12002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/08/12 10:20
Sample ID:   SL-559-SA5C-SB-0.0-0.5            Date Analyzed: 06/12/12 11:55
Lab Samp ID: F051-18                            Dilution Factor: 1
Lab File ID: BF12011A                          Matrix          : SOIL
Ext Btch ID: MEF006S                            % Moisture     : 14.1
Calib. Ref.: BF12002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.   : 12F051                           Date Extracted: 06/08/12 10:20
Sample ID:  SL-559-SA5C-SB-2.0-3.0           Date Analyzed: 06/12/12 12:11
Lab Samp ID: F051-19                          Dilution Factor: 1
Lab File ID: BF12012A                        Matrix          : SOIL
Ext Btch ID: MEF006S                         % Moisture     : 14.6
Calib. Ref.: BF12002A                       Instrument ID  : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	590	290
ISOPROPANOL	ND	590	290
METHANOL	ND	590	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.   : 12F051                           Date Extracted: 06/08/12 10:20
Sample ID:  SL-559-SA5C-SB-7.0-8.0           Date Analyzed: 06/12/12 13:04
Lab Samp ID: F051-21                          Dilution Factor: 1
Lab File ID: BF12014A                        Matrix          : SOIL
Ext Btch ID: MEF006S                          % Moisture     : 13.3
Calib. Ref.: BF12013A                        Instrument ID  : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	580	290
ISOPROPANOL	ND	580	290
METHANOL	ND	580	290

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.   : 12F051                           Date Extracted: 06/08/12 10:20
Sample ID   : SL-548-SA5C-SB-9.0-10.0         Date Analyzed: 06/12/12 14:42
Lab Samp ID : F051-23W                         Dilution Factor: 1
Lab File ID : BF12019A                        Matrix          : SOIL
Ext Btch ID : MEF006S                          % Moisture     : 11.7
Calib. Ref. : BF12013A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	570	280
ISOPROPANOL	ND	570	280
METHANOL	ND	570	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/08/12 10:20
Sample ID:   SL-571-SA5C-SB-4.0-5.0              Date Analyzed: 06/12/12 13:49
Lab Samp ID: F051-24                              Dilution Factor: 1
Lab File ID: BF12016A                            Matrix          : SOIL
Ext Btch ID: MEF006S                             % Moisture     : 10.6
Calib. Ref.: BF12013A                            Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	560	280
ISOPROPANOL	ND	560	280
METHANOL	ND	560	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.   : 12F051                           Date Extracted: 06/08/12 10:20
Sample ID:  SL-571-SA5C-SB-9.0-10.0           Date Analyzed: 06/12/12 14:25
Lab Samp ID: F051-26                           Dilution Factor: 1
Lab File ID: BF12018A                          Matrix          : SOIL
Ext Btch ID: MEF006S                           % Moisture      : 10.8
Calib. Ref.: BF12013A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	560	280
ISOPROPANOL	ND	560	280
METHANOL	ND	560	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/08/12
Batch No.   : 12F051                           Date Extracted: 06/08/12 10:20
Sample ID   : MBLK1S                           Date Analyzed: 06/11/12 16:25
Lab Samp ID: MEF006SB                         Dilution Factor: 1
Lab File ID: BF11022A                        Matrix          : SOIL
Ext Btch ID: MEF006S                          % Moisture      : NA
Calib. Ref.: BF11021A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEF006SB MEF006SL MEF006SC  
LAB FILE ID: BF11022A BF11023A BF11024A  
DATE EXTRACTED: 06/08/1210:20 06/08/1210:20 06/08/1210:20 DATE COLLECTED: NA  
DATE ANALYZED: 06/11/1216:25 06/11/1216:41 06/11/1216:57 DATE RECEIVED: 06/08/12  
PREP. BATCH: MEF006S MEF006S MEF006S  
CALIB. REF: BF11021A BF11021A BF11021A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	11000	110	10000	9940	99	10	50-150	50
Isopropanol	ND	10000	12000	120	10000	10600	106	13	50-150	50
Methanol	ND	10000	8660	87	10000	10600	106	20	50-150	50

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.   : 12F051                           Date Extracted: 06/08/12 15:37
Sample ID   : EB1-060712                       Date Analyzed: 06/08/12 15:37
Lab Samp ID: F051-01                           Dilution Factor: 1
Lab File ID: TF08019A                          Matrix          : WATER
Ext Btch ID: PEF002W                           % Moisture     : NA
Calib. Ref.: TF08014A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/08/12 15:53
Sample ID    : EB2-060712                       Date Analyzed: 06/08/12 15:53
Lab Samp ID  : F051-02                           Dilution Factor: 1
Lab File ID  : TF08020A                          Matrix          : WATER
Ext Btch ID  : PEF002W                            % Moisture      : NA
Calib. Ref.  : TF08014A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 8015M

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PEF002WB PEF002WL PEF002WC  
LAB FILE ID: TF08017A TF08015A TF08016A  
DATE EXTRACTED: 06/08/1215:09 06/08/1214:19 06/08/1214:43 DATE COLLECTED: NA  
DATE ANALYZED: 06/08/1215:09 06/08/1214:19 06/08/1214:43 DATE RECEIVED: 06/08/12  
PREP. BATCH: PEF002W PEF002W PEF002W  
CALIB. REF: TF08014A TF08014A TF08014A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	46.5	93	50.0	47.9	96	3	50-150	30
Ethylene Glycol	ND	50.0	42.5	85	50.0	40.7	81	4	50-150	30
Propylene Glycol	ND	25.0	23.5	94	25.0	23.0	92	2	50-150	30

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/08/12
Batch No.   : 12F051                           Date Extracted: 06/08/12 15:09
Sample ID   : MBLK1W                           Date Analyzed: 06/08/12 15:09
Lab Samp ID: PEF002WB                         Dilution Factor: 1
Lab File ID: TF08017A                        Matrix          : WATER
Ext Btch ID: PEF002W                          % Moisture     : NA
Calib. Ref.: TF08014A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.   : 12F051                           Date Extracted: 06/08/12 10:15
Sample ID:  SL-537-SA5C-SB-0.0-0.5           Date Analyzed: 06/11/12 11:01
Lab Samp ID: F051-06                          Dilution Factor: 1
Lab File ID: TF11006A                        Matrix          : SOIL
Ext Btch ID: PEF006S                          % Moisture     : 11.9
Calib. Ref.: TF11002A                        Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.5
ETHYLENE GLYCOL	ND	11	5.7
PROPYLENE GLYCOL	ND	11	5.7

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/08/12 10:15
Sample ID:   SL-537-SA5C-SB-4.0-5.0              Date Analyzed: 06/11/12 11:15
Lab Samp ID: F051-07                              Dilution Factor: 1
Lab File ID: TF11007A                             Matrix          : SOIL
Ext Btch ID: PEF006S                               % Moisture     : 13.8
Calib. Ref.: TF11002A                             Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.7
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/08/12 10:15
Sample ID:   SL-537-SA5C-SB-9.0-10.0           Date Analyzed: 06/11/12 11:29
Lab Samp ID: F051-09                            Dilution Factor: 1
Lab File ID: TF11008A                          Matrix          : SOIL
Ext Btch ID: PEF006S                            % Moisture     : 13.9
Calib. Ref.: TF11002A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.7
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/08/12 10:15
Sample ID    : SL-547-SA5C-SB-4.0-5.0          Date Analyzed: 06/11/12 11:43
Lab Samp ID  : F051-11                          Dilution Factor: 1
Lab File ID  : TF11009A                         Matrix          : SOIL
Ext Btch ID  : PEF006S                          % Moisture     : 9.6
Calib. Ref.  : TF11002A                         Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.3
ETHYLENE GLYCOL	ND	11	5.5
PROPYLENE GLYCOL	ND	11	5.5

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/08/12 10:15
Sample ID:   SL-547-SA5C-SB-9.0-10.0           Date Analyzed: 06/11/12 11:59
Lab Samp ID: F051-13                           Dilution Factor: 1
Lab File ID: TF11010A                          Matrix          : SOIL
Ext Btch ID: PEF006S                            % Moisture     : 7.7
Calib. Ref.: TF11002A                          Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	8.1
ETHYLENE GLYCOL	ND	11	5.4
PROPYLENE GLYCOL	ND	11	5.4

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/08/12 10:15
Sample ID:   SL-548-SA5C-SB-4.0-5.0              Date Analyzed: 06/11/12 12:15
Lab Samp ID: F051-15                             Dilution Factor: 1
Lab File ID: TF11011A                           Matrix          : SOIL
Ext Btch ID: PEF006S                             % Moisture     : 13.2
Calib. Ref.: TF11002A                           Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.6
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/08/12 10:15
Sample ID    : SL-559-SA5C-SB-0.0-0.5          Date Analyzed: 06/11/12 12:33
Lab Samp ID  : F051-18                           Dilution Factor: 1
Lab File ID  : TF11012A                          Matrix          : SOIL
Ext Btch ID  : PEF006S                           % Moisture     : 14.1
Calib. Ref.  : TF11002A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.7
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/08/12 10:15
Sample ID:   SL-559-SA5C-SB-2.0-3.0              Date Analyzed: 06/11/12 13:33
Lab Samp ID: F051-19                             Dilution Factor: 1
Lab File ID: TF11014A                            Matrix          : SOIL
Ext Btch ID: PEF006S                             % Moisture     : 14.6
Calib. Ref.: TF11013A                            Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	18	8.8
ETHYLENE GLYCOL	ND	12	5.9
PROPYLENE GLYCOL	ND	12	5.9

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.   : 12F051                             Date Extracted: 06/08/12 10:15
Sample ID:  SL-559-SA5C-SB-7.0-8.0              Date Analyzed: 06/11/12 13:54
Lab Samp ID: F051-21                             Dilution Factor: 1
Lab File ID: TF11015A                            Matrix          : SOIL
Ext Btch ID: PEF006S                             % Moisture     : 13.3
Calib. Ref.: TF11013A                            Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.7
ETHYLENE GLYCOL	ND	12	5.8
PROPYLENE GLYCOL	ND	12	5.8

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.   : 12F051                             Date Extracted: 06/08/12 10:15
Sample ID   : SL-548-SA5C-SB-9.0-10.0           Date Analyzed: 06/11/12 14:13
Lab Samp ID: F051-23                             Dilution Factor: 1
Lab File ID: TF11016A                           Matrix          : SOIL
Ext Btch ID: PEF006S                             % Moisture      : 11.7
Calib. Ref.: TF11013A                           Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.5
ETHYLENE GLYCOL	ND	11	5.7
PROPYLENE GLYCOL	ND	11	5.7

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.   : 12F051                           Date Extracted: 06/08/12 10:15
Sample ID:  SL-571-SA5C-SB-4.0-5.0           Date Analyzed: 06/11/12 14:27
Lab Samp ID: F051-24                          Dilution Factor: 1
Lab File ID: TF11017A                        Matrix          : SOIL
Ext Btch ID: PEF006S                          % Moisture     : 10.6
Calib. Ref.: TF11013A                        Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.4
ETHYLENE GLYCOL	ND	11	5.6
PROPYLENE GLYCOL	ND	11	5.6

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/08/12 10:15
Sample ID:   SL-571-SA5C-SB-9.0-10.0             Date Analyzed: 06/11/12 14:43
Lab Samp ID: F051-26                             Dilution Factor: 1
Lab File ID: TF11018A                           Matrix          : SOIL
Ext Btch ID: PEF006S                             % Moisture      : 10.8
Calib. Ref.: TF11013A                           Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.4
ETHYLENE GLYCOL	ND	11	5.6
PROPYLENE GLYCOL	ND	11	5.6

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                       Date Received: 06/08/12
Batch No.   : 12F051                             Date Extracted: 06/08/12 10:15
Sample ID   : MBLK1S                             Date Analyzed: 06/11/12 10:43
Lab Samp ID: PEF006SB                           Dilution Factor: 1
Lab File ID: TF11005A                           Matrix          : SOIL
Ext Btch ID: PEF006S                             % Moisture     : NA
Calib. Ref.: TF11002A                           Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEF006SB PEF006SL PEF006SC  
LAB FILE ID: TF11005A TF11003A TF11004A  
DATE EXTRACTED: 06/08/1210:15 06/08/1210:15 06/08/1210:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/11/1210:43 06/11/1209:56 06/11/1210:19 DATE RECEIVED: 06/08/12  
PREP. BATCH: PEF006S PEF006S PEF006S  
CALIB. REF: TF11002A TF11002A TF11002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	46.8	94	50.0	50.2	100	7	50-150	50
Ethylene Glycol	ND	50.0	43.7	87	50.0	44.6	89	2	50-150	50
Propylene Glycol	ND	25.0	24.2	97	25.0	24.8	99	3	50-150	50

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 10:45
Sample ID    : EB1-060712                       Date Analyzed: 06/12/12 19:13
Lab Samp ID  : F051-01                           Dilution Factor: 1
Lab File ID  : LF12013A                         Matrix          : WATER
Ext Btch ID  : DSF014W                          % Moisture     : NA
Calib. Ref.  : LF12003A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.758	1.000	75.8	40-130
HEXACOSANE	0.189	0.2500	75.7	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 10:45
Sample ID    : EB2-060712                       Date Analyzed: 06/12/12 19:30
Lab Samp ID  : F051-02                           Dilution Factor: 0.97
Lab File ID  : LF12014A                         Matrix          : WATER
Ext Btch ID  : DSF014W                          % Moisture     : NA
Calib. Ref.  : LF12003A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.097	0.049
EFH(C12-C14)	ND	0.097	0.049
EFH(C15-C20)	ND	0.097	0.049
EFH(C21-C30)	ND	0.097	0.049
EFH(C30-C40)	ND	0.097	0.049
TOTAL EFH(C8-C40)	ND	0.097	0.049

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.744	0.9700	76.7	40-130
HEXACOSANE	0.191	0.2425	78.6	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 10:45
Sample ID    : MBLK1W                            Date Analyzed: 06/12/12 17:31
Lab Samp ID  : DSF014WB                         Dilution Factor: 1
Lab File ID  : LF12007A                        Matrix          : WATER
Ext Btch ID  : DSF014W                          % Moisture     : NA
Calib. Ref.  : LF12003A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.825	1.000	82.5	40-130
HEXACOSANE	0.208	0.2500	83.0	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSF014WB DSF014WL DSF014WC  
LAB FILE ID: LF12007A LF12008A LF12009A  
DATE EXTRACTED: 06/11/1210:45 06/11/1210:45 06/11/1210:45 DATE COLLECTED: NA  
DATE ANALYZED: 06/12/1217:31 06/12/1217:48 06/12/1218:05 DATE RECEIVED: 06/11/12  
PREP. BATCH: DSF014W DSF014W DSF014W  
CALIB. REF: LF12003A LF12003A LF12003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.47	89	5.00	4.39	88	2	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.823	82	1.00	0.845	85	40-130
Hexacosane	0.250	0.206	83	0.250	0.214	86	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/13/12 11:57
Sample ID:   SL-537-SA5C-SB-0.0-0.5            Date Analyzed: 06/13/12 19:56
Lab Samp ID: F051-06                           Dilution Factor: 1
Lab File ID: LF13017A                          Matrix          : SOIL
Ext Btch ID: DSF016S                            % Moisture     : 11.9
Calib. Ref.: LF13015A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.5	113.5	61.2	50-150
HEXACOSANE	20.3	28.38	71.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/13/12 11:57
Sample ID    : SL-537-SA5C-SB-4.0-5.0          Date Analyzed: 06/13/12 20:13
Lab Samp ID  : F051-07                           Dilution Factor: 1
Lab File ID  : LF13018A                          Matrix          : SOIL
Ext Btch ID  : DSF016S                            % Moisture     : 13.8
Calib. Ref.  : LF13015A                          Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	60.5	116.0	52.2	50-150
HEXACOSANE	18.9	29.00	65.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/13/12 11:57
Sample ID:   SL-537-SA5C-SB-9.0-10.0          Date Analyzed: 06/13/12 20:30
Lab Samp ID: F051-09                           Dilution Factor: 1
Lab File ID: LF13019A                          Matrix          : SOIL
Ext Btch ID: DSF016S                            % Moisture     : 13.9
Calib. Ref.: LF13015A                          Instrument ID  : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	65.6	116.1	56.5	50-150
HEXACOSANE	20.0	29.04	68.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/13/12 11:57
Sample ID:   SL-547-SA5C-SB-4.0-5.0           Date Analyzed: 06/13/12 20:47
Lab Samp ID: F051-11                           Dilution Factor: 1
Lab File ID: LF13020A                          Matrix          : SOIL
Ext Btch ID: DSF016S                            % Moisture     : 9.6
Calib. Ref.: LF13015A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	56.9	110.6	51.4	50-150
HEXACOSANE	18.4	27.65	66.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/13/12 11:57
Sample ID    : SL-547-SA5C-SB-9.0-10.0         Date Analyzed: 06/13/12 21:21
Lab Samp ID  : F051-13                          Dilution Factor: 1
Lab File ID  : LF13022A                         Matrix          : SOIL
Ext Btch ID  : DSF016S                          % Moisture     : 7.7
Calib. Ref.  : LF13015A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	65.3	108.3	60.3	50-150
HEXACOSANE	18.2	27.09	67.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/13/12 11:57
Sample ID:   SL-548-SA5C-SB-4.0-5.0           Date Analyzed: 06/13/12 21:04
Lab Samp ID: F051-15                           Dilution Factor: 1
Lab File ID: LF13021A                          Matrix          : SOIL
Ext Btch ID: DSF016S                           % Moisture     : 13.2
Calib. Ref.: LF13015A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	67.8	115.2	58.9	50-150
HEXACOSANE	20.8	28.80	72.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/13/12 11:57
Sample ID:   SL-559-SA5C-SB-0.0-0.5            Date Analyzed: 06/13/12 21:55
Lab Samp ID: F051-18                            Dilution Factor: 1
Lab File ID: LF13024A                          Matrix          : SOIL
Ext Btch ID: DSF016S                            % Moisture     : 14.1
Calib. Ref.: LF13015A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	23	5.8	2.9
EFH(C30-C40)	27	12	5.8
TOTAL EFH(C8-C40)	50	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.4	116.4	64.8	50-150
HEXACOSANE	24.7	29.10	85.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/13/12 11:57
Sample ID:   SL-559-SA5C-SB-2.0-3.0            Date Analyzed: 06/13/12 22:12
Lab Samp ID: F051-19                            Dilution Factor: 1
Lab File ID: LF13025A                          Matrix          : SOIL
Ext Btch ID: DSF016S                           % Moisture     : 14.6
Calib. Ref.: LF13015A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.9	2.9
EFH(C12-C14)	ND	5.9	2.9
EFH(C15-C20)	ND	5.9	2.9
EFH(C21-C30)	12	5.9	2.9
EFH(C30-C40)	14	12	5.9
TOTAL EFH(C8-C40)	26	5.9	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.8	117.1	63.1	50-150
HEXACOSANE	23.2	29.27	79.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/13/12 11:57
Sample ID:   SL-559-SA5C-SB-7.0-8.0            Date Analyzed: 06/13/12 23:20
Lab Samp ID: F051-21                            Dilution Factor: 1
Lab File ID: LF13029A                           Matrix          : SOIL
Ext Btch ID: DSF016S                             % Moisture     : 13.3
Calib. Ref.: LF13027A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	60.3	115.3	52.3	50-150
HEXACOSANE	21.9	28.84	76.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/13/12 11:57
Sample ID    : SL-548-SA5C-SB-9.0-10.0         Date Analyzed: 06/13/12 21:38
Lab Samp ID  : F051-23                          Dilution Factor: 1
Lab File ID  : LF13023A                        Matrix          : SOIL
Ext Btch ID  : DSF016S                         % Moisture     : 11.7
Calib. Ref.  : LF13015A                       Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.1	113.3	61.0	50-150
HEXACOSANE	20.5	28.31	72.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/13/12 11:57
Sample ID:   SL-571-SA5C-SB-4.0-5.0           Date Analyzed: 06/13/12 22:29
Lab Samp ID: F051-24                           Dilution Factor: 1
Lab File ID: LF13026A                          Matrix          : SOIL
Ext Btch ID: DSF016S                            % Moisture     : 10.6
Calib. Ref.: LF13015A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	21	5.6	2.8
EFH(C30-C40)	23	11	5.6
TOTAL EFH(C8-C40)	44	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.5	111.9	63.9	50-150
HEXACOSANE	22.3	27.96	79.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/13/12 11:57
Sample ID:   SL-571-SA5C-SB-9.0-10.0             Date Analyzed: 06/13/12 23:37
Lab Samp ID: F051-26                              Dilution Factor: 1
Lab File ID: LF13030A                             Matrix          : SOIL
Ext Btch ID: DSF016S                              % Moisture     : 10.8
Calib. Ref.: LF13027A                             Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.8	112.1	64.9	50-150
HEXACOSANE	21.1	28.03	75.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F051                           Date Extracted: 06/13/12 11:57
Sample ID    : MBLK1S                           Date Analyzed: 06/13/12 16:32
Lab Samp ID  : DSF016SB                         Dilution Factor: 1
Lab File ID  : LF13005A                         Matrix          : SOIL
Ext Btch ID  : DSF016S                          % Moisture     : NA
Calib. Ref.  : LF13003A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	66.1	100.0	66.1	50-150
HEXACOSANE	17.6	25.00	70.5	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF016SB DSF016SL DSF016SC  
LAB FILE ID: LF13005A LF13006A LF13007A  
DATE EXTRACTED: 06/13/1211:57 06/13/1211:57 06/13/1211:57 DATE COLLECTED: NA  
DATE ANALYZED: 06/13/1216:32 06/13/1216:49 06/13/1217:06 DATE RECEIVED: 06/13/12  
PREP. BATCH: DSF016S DSF016S DSF016S  
CALIB. REF: LF13003A LF13003A LF13003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	433	87	500	394	79	10	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	79.4	79	100	71.7	72	50-150
Hexacosane	25.0	19.8	79	25.0	17.6	70	50-150

METHOD 3520C/8081A  
PESTICIDES

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 11:15
Sample ID:   EB1-060712                         Date Analyzed: 06/13/12 21:41
Lab Samp ID: F051-01                             Dilution Factor: 0.99
Lab File ID: RF13027A                           Matrix          : WATER
Ext Btch ID: CPF010W                             % Moisture      : NA
Calib. Ref.: RF13020A                           Instrument ID   : F9
=====

```

PARAMETERS	RESULTS		RL	MDL	
	(ug/L)		(ug/L)	(ug/L)	
ALPHA-BHC	(ND)	ND	0.099	0.0099	0.0099
GAMMA-BHC (LINDANE)	(ND)	ND	0.099	0.0099	0.0099
BETA-BHC	(ND)	ND	0.099	0.0099	0.0099
HEPTACHLOR	(ND)	ND	0.099	0.0099	0.0099
DELTA-BHC	(ND)	ND	0.099	0.0099	0.0099
ALDRIN	(ND)	ND	0.099	0.0099	0.0099
HEPTACHLOR EPOXIDE	(ND)	ND	0.099	0.0099	0.0099
ENDOSULFAN I	(ND)	ND	0.099	0.0099	0.0099
4,4'-DDE	0.014J	(ND)	0.099	0.0099	0.0099
DIELDRIN	0.038J	(ND)	0.099	0.0099	0.0099
ENDRIN	(ND)	ND	0.099	0.0099	0.0099
4,4'-DDD	(ND)	ND	0.099	0.0099	0.0099
ENDOSULFAN II	(ND)	ND	0.099	0.0099	0.0099
4,4'-DDT	(ND)	ND	0.099	0.0099	0.0099
ENDRIN ALDEHYDE	(ND)	ND	0.099	0.0099	0.0099
ENDOSULFAN SULFATE	(ND)	ND	0.099	0.0099	0.0099
ENDRIN KETONE	(ND)	ND	0.099	0.0099	0.0099
METHOXYCHLOR	(ND)	ND	0.99	0.099	0.099
MIREX	(ND)	ND	0.099	0.0099	0.0099
TOXAPHENE	(ND)	ND	2.0	0.50	0.50
CHLORDANE (TECHNICAL)	(ND)	ND	0.99	0.25	0.25

SURROGATE PARAMETERS	RESULTS		SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(0.3015)	0.2938	0.3960	(76.1)   74.2	60-140
DECACHLOROBIPHENYL	0.3407	(0.3518)	0.3960	86.0   (88.8)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3520C/8081A  
PESTICIDES

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/11/12
Batch No.    : 12F051                             Date Extracted: 06/11/12 11:15
Sample ID    : MBLK1W                             Date Analyzed: 06/13/12 20:37
Lab Samp ID  : CPF010WB                           Dilution Factor: 1
Lab File ID  : RF13024A                           Matrix          : WATER
Ext Btch ID  : CPF010W                             % Moisture      : NA
Calib. Ref.  : RF13020A                           Instrument ID   : F9
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ALPHA-BHC	(ND)   ND	0.10	0.010   0.010
GAMMA-BHC (LINDANE)	(ND)   ND	0.10	0.010   0.010
BETA-BHC	(ND)   0.016J	0.10	0.010   0.010
HEPTACHLOR	(ND)   ND	0.10	0.010   0.010
DELTA-BHC	(ND)   ND	0.10	0.010   0.010
ALDRIN	(ND)   ND	0.10	0.010   0.010
HEPTACHLOR EPOXIDE	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN I	(ND)   ND	0.10	0.010   0.010
4,4'-DDE	(ND)   ND	0.10	0.010   0.010
DIELDRIN	(ND)   ND	0.10	0.010   0.010
ENDRIN	(ND)   ND	0.10	0.010   0.010
4,4'-DDD	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN II	(ND)   ND	0.10	0.010   0.010
4,4'-DDT	(ND)   ND	0.10	0.010   0.010
ENDRIN ALDEHYDE	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN SULFATE	(ND)   ND	0.10	0.010   0.010
ENDRIN KETONE	(ND)   ND	0.10	0.010   0.010
METHOXYCHLOR	(ND)   ND	1.0	0.10   0.10
MIREX	(ND)   ND	0.10	0.010   0.010
TOXAPHENE	(ND)   ND	2.0	0.50   0.50
CHLORDANE (TECHNICAL)	(ND)   ND	1.0	0.25   0.25

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(0.3173)   0.3133	0.4000	(79.3)   78.3	60-140
DECACHLOROBIPHENYL	0.3366   (0.3481)	0.4000	84.2   (87.0)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPF010WB CPF010WL CPF010WC  
LAB FILE ID: RF13024A RF13025A RF13026A  
DATE EXTRACTED: 06/11/1211:15 06/11/1211:15 06/11/1211:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/13/1220:37 06/13/1220:58 06/13/1221:20 DATE RECEIVED: 06/11/12  
PREP. BATCH: CPF010W CPF010W CPF010W  
CALIB. REF: RF13020A RF13020A RF13020A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
alpha-BHC	(ND)   ND	0.200	(0.203)   0.197	(101)   98	0.200	(0.159)   0.155	(79)   78	(24)   24	30-150	30
gamma-BHC (Lindane)	(ND)   ND	0.200	(0.213)   0.212	(106)   106	0.200	(0.171)   0.170	(86)   85	(22)   22	40-130	30
beta-BHC	(ND)   0.016J	0.200	(0.219)   0.229	(110)   114	0.200	(0.194)   0.197	(97)   98	(12)   15	60-130	30
Heptachlor	(ND)   ND	0.200	(0.203)   0.201	(101)   100	0.200	0.164   (0.165)	82   (82)	21   (20)	30-140	30
delta-BHC	(ND)   ND	0.200	(0.230)   0.226	(115)   113	0.200	(0.204)   0.198	(102)   99	(12)   13	30-150	30
Aldrin	(ND)   ND	0.200	0.201   (0.206)	100   (103)	0.200	0.164   (0.166)	82   (83)	20   (22)	40-130	30
Heptachlor Epoxide	(ND)   ND	0.200	(0.206)   0.206	(103)   103	0.200	(0.184)   0.184	(92)   92	(11)   11	50-140	30
Endosulfan I	(ND)   ND	0.200	0.189   (0.203)	94   (101)	0.200	0.171   (0.182)	86   (91)	10   (11)	60-140	30
4,4'-DDE	(ND)   ND	0.200	0.208   (0.210)	104   (105)	0.200	(0.193)   0.193	(96)   96	(7)   8	50-140	30
Dieldrin	(ND)   ND	0.200	0.212   (0.213)	106   (106)	0.200	(0.196)   0.194	(98)   97	(8)   9	60-140	30
Endrin	(ND)   ND	0.200	(0.215)   0.211	(108)   105	0.200	(0.197)   0.195	(98)   97	(9)   8	50-140	30
4,4'-DDD	(ND)   ND	0.200	0.204   (0.210)	102   (105)	0.200	0.194   (0.200)	97   (100)	5   (5)	50-160	30
Endosulfan II	(ND)   ND	0.200	0.204   (0.209)	102   (104)	0.200	(0.198)   0.197	(99)   98	(3)   6	60-150	30
4,4'-DDT	(ND)   ND	0.200	(0.242)   0.212	(121)   106	0.200	(0.232)   0.202	(116)   101	(4)   5	60-140	30
Endrin aldehyde	(ND)   ND	0.200	(0.214)   0.212	(107)   106	0.200	(0.200)   0.199	(100)   100	(7)   6	60-160	30
Endosulfan Sulfate	(ND)   ND	0.200	(0.222)   0.219	(111)   110	0.200	(0.212)   0.209	(106)   104	(5)   5	70-140	30
Endrin Ketone	(ND)   ND	0.200	0.207   (0.208)	104   (104)	0.200	(0.199)   0.199	(100)   100	(4)   4	30-150	30
Methoxychlor	(ND)   ND	2.00	1.95   (1.99)	98   (100)	2.00	1.89   (1.92)	94   (96)	3   (4)	70-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Tetrachloro-m-xylene	0.4000	0.3327   (0.3333)	83.2   (83.3)	0.4000	0.2708   (0.2750)	67.7   (68.8)	60-140
Decachlorobiphenyl	0.4000	0.3465   (0.3579)	86.6   (89.5)	0.4000	0.3465   (0.3579)	86.6   (89.5)	20-120

METHOD 3520C/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 11:15
Sample ID    : EB1-060712                       Date Analyzed: 06/20/12 16:06
Lab Samp ID  : F051-01                           Dilution Factor: 0.99
Lab File ID  : SF20014A                          Matrix          : WATER
Ext Btch ID  : CPF010W                            % Moisture     : NA
Calib. Ref.  : SF20009A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	0.99	0.50   0.50
AROCLOR 1221	(ND)   ND	0.99	0.50   0.50
AROCLOR 1232	(ND)   ND	0.99	0.50   0.50
AROCLOR 1242	(ND)   ND	0.99	0.50   0.50
AROCLOR 1248	(ND)   ND	0.99	0.50   0.50
AROCLOR 1254	(ND)   ND	0.99	0.50   0.50
AROCLOR 1260	(ND)   ND	0.99	0.50   0.50
AROCLOR 1262	(ND)   ND	0.99	0.50   0.50
AROCLOR 1268	(ND)   ND	0.99	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	0.99   0.99
AROCLOR 5442	(ND)   ND	2.0	0.99   0.99
AROCLOR 5460	(ND)   ND	2.0	0.99   0.99

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.3475)   0.4144	0.3960	(87.8)   105	45-120
TETRACHLORO-M-XYLENE	(0.2925)   0.3865	0.3960	(73.9)   97.6	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3520C/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/11/12 11:15
Sample ID    : EB2-060712                       Date Analyzed: 06/20/12 16:40
Lab Samp ID  : F051-02                           Dilution Factor: 1
Lab File ID  : SF20015A                         Matrix          : WATER
Ext Btch ID  : CPF010W                          % Moisture     : NA
Calib. Ref.  : SF20009A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.3758)   0.4231	0.4000	(94.0)   106	45-120
TETRACHLORO-M-XYLENE	(0.3187)   0.4088	0.4000	(79.7)   102	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3520C/8082  
PCBs

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=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.  : 12F051                           Date Extracted: 06/11/12 11:15
Sample ID  : MBLK1W                           Date Analyzed: 06/20/12 14:23
Lab Samp ID: CPF010WB                        Dilution Factor: 1
Lab File ID: SF20011A                       Matrix          : WATER
Ext Btch ID: CPF010W                         % Moisture     : NA
Calib. Ref.: SF20009A                       Instrument ID  : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.3291)   0.3794	0.4000	(82.3)   94.8	45-120
TETRACHLORO-M-XYLENE	(0.3393)   0.4141	0.4000	(84.8)   104	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPF010WB 60F010WL 60F010WC  
LAB FILE ID: SF20011A SF20012A SF20013A  
DATE EXTRACTED: 06/11/1211:15 06/11/1211:15 06/11/1211:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/20/1214:23 06/20/1214:57 06/20/1215:31 DATE RECEIVED: 06/11/12  
PREP. BATCH: CPF010W CPF010W CPF010W  
CALIB. REF: SF20009A SF20009A SF20009A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	(4.29)   5.17	(86)   103	5.00	(3.84)   4.71	(77)   94	(11)   9	50-130	30
Aroclor 1260	(ND)   ND	5.00	(4.53)   5.71	(91)   114	5.00	(4.27)   5.64	(85)   113	(6)   1	60-150	30
Aroclor 5460	(ND)   ND	2.50	(3.02)   3.09	(121)   124	2.50	(2.88)   2.97	(115)   119	(5)   4	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	(0.3598)   0.4134	(89.9)   103	0.4000	(0.3697)   0.4076	(92.4)   102	45-120
Tetrachloro-m-xylene	0.4000	(0.3739)   0.4174	(93.5)   104	0.4000	(0.3215)   0.3629	(80.4)   90.7	30-140

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/19/12 14:38
Sample ID    : SL-637-SA5C-SB-0.0-0.5          Date Analyzed: 06/20/12 22:22
Lab Samp ID  : F051-03                           Dilution Factor: 1
Lab File ID  : SF20025A                          Matrix          : SOIL
Ext Btch ID  : CPF019S                           % Moisture     : 9.6
Calib. Ref.  : SF20022A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(9.047)   10.05	14.75	(61.4)   68.2	45-120
TETRACHLORO-M-XYLENE	(12.35)   14.99	14.75	(83.8)   102	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/19/12 14:38
Sample ID:   SL-637-SA5C-SB-2.0-3.0              Date Analyzed: 06/20/12 22:57
Lab Samp ID: F051-04                              Dilution Factor: 1
Lab File ID: SF20026A                            Matrix          : SOIL
Ext Btch ID: CPF019S                              % Moisture     : 12.4
Calib. Ref.: SF20022A                            Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(11.25)   12.65	15.22	(73.9)   83.2	45-120
TETRACHLORO-M-XYLENE	(14.43)   14.69	15.22	(94.9)   96.5	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/06/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/19/12 14:38
Sample ID    : SL-639-SA5C-SB-0.0-0.5          Date Analyzed: 06/20/12 23:31
Lab Samp ID  : F051-05                          Dilution Factor: 1
Lab File ID  : SF20027A                         Matrix          : SOIL
Ext Btch ID  : CPF019S                          % Moisture     : 7.7
Calib. Ref.  : SF20022A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(33)   45	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(10.70)   12.51	14.44	(74.1)   86.7	45-120
TETRACHLORO-M-XYLENE	(13.76)   14.91	14.44	(95.3)   103	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/19/12 14:38
Sample ID    : SL-537-SA5C-SB-0.0-0.5          Date Analyzed: 06/21/12 00:05
Lab Samp ID  : F051-06                           Dilution Factor: 1
Lab File ID  : SF20028A                          Matrix          : SOIL
Ext Btch ID  : CPF019S                           % Moisture      : 11.9
Calib. Ref.  : SF20022A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(11.05)   12.73	15.13	(73.1)   84.1	45-120
TETRACHLORO-M-XYLENE	(10.56)   13.30	15.13	(69.8)   87.9	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.    : 12F051                             Date Extracted: 06/19/12 14:38
Sample ID    : SL-537-SA5C-SB-4.0-5.0           Date Analyzed: 06/21/12 00:39
Lab Samp ID  : F051-07                           Dilution Factor: 1
Lab File ID  : SF20029A                          Matrix          : SOIL
Ext Btch ID  : CPF019S                            % Moisture     : 13.8
Calib. Ref.  : SF20022A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.38)   15.67	15.46	(86.5)   101	45-120
TETRACHLORO-M-XYLENE	(12.61)   15.02	15.46	(81.5)   97.1	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/19/12 14:38
Sample ID    : SL-537-SA5C-SB-9.0-10.0         Date Analyzed: 06/21/12 01:14
Lab Samp ID  : F051-09                          Dilution Factor: 1
Lab File ID  : SF20030A                        Matrix          : SOIL
Ext Btch ID  : CPF019S                         % Moisture     : 13.9
Calib. Ref.  : SF20022A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.77)   16.34	15.48	(89.0)   106	45-120
TETRACHLORO-M-XYLENE	(12.47)   14.97	15.48	(80.6)   96.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/19/12 14:38
Sample ID    : SL-547-SA5C-SB-4.0-5.0          Date Analyzed: 06/21/12 01:48
Lab Samp ID  : F051-11                          Dilution Factor: 1
Lab File ID  : SF20031A                         Matrix          : SOIL
Ext Btch ID  : CPF019S                          % Moisture     : 9.6
Calib. Ref.  : SF20022A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.89)   15.67	14.75	(87.4)   106	45-120
TETRACHLORO-M-XYLENE	(11.71)   13.95	14.75	(79.4)   94.6	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/19/12 14:38
Sample ID    : SL-547-SA5C-SB-9.0-10.0         Date Analyzed: 06/21/12 02:22
Lab Samp ID  : F051-13                           Dilution Factor: 1
Lab File ID  : SF20032A                          Matrix          : SOIL
Ext Btch ID  : CPF019S                           % Moisture      : 7.7
Calib. Ref.  : SF20022A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(11.94)   14.77	14.44	(82.7)   102	45-120
TETRACHLORO-M-XYLENE	(13.05)   13.86	14.44	(90.4)   96.0	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.   : 12F051                           Date Extracted: 06/19/12 14:38
Sample ID   : SL-548-SA5C-SB-4.0-5.0          Date Analyzed: 06/21/12 02:56
Lab Samp ID: F051-15                           Dilution Factor: 1
Lab File ID: SF20033A                          Matrix          : SOIL
Ext Btch ID: CPF019S                           % Moisture     : 13.2
Calib. Ref.: SF20022A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.50)   16.18	15.36	(87.9)   105	45-120
TETRACHLORO-M-XYLENE	(13.46)   14.77	15.36	(87.7)   96.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 06/07/12
Project    : SSFL PHASE 3                       Date Received: 06/07/12
Batch No.  : 12F051                             Date Extracted: 06/19/12 14:38
Sample ID  : SL-559-SA5C-SB-0.0-0.5            Date Analyzed: 06/21/12 03:30
Lab Samp ID: F051-18                           Dilution Factor: 1
Lab File ID: SF20034A                          Matrix          : SOIL
Ext Btch ID: CPF019S                            % Moisture     : 14.1
Calib. Ref.: SF20022A                          Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(17J)   23J	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(10.87)   13.51	15.52	(70.1)   87.1	45-120
TETRACHLORO-M-XYLENE	(13.79)   15.04	15.52	(88.9)   96.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/19/12 14:38
Sample ID    : SL-559-SA5C-SB-2.0-3.0          Date Analyzed: 06/21/12 04:05
Lab Samp ID  : F051-19                          Dilution Factor: 1
Lab File ID  : SF20035A                        Matrix          : SOIL
Ext Btch ID  : CPF019S                         % Moisture     : 14.6
Calib. Ref.  : SF20022A                        Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(10.55)   12.83	15.61	(67.6)   82.2	45-120
TETRACHLORO-M-XYLENE	(13.25)   12.72	15.61	(84.9)   81.5	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.   : 12F051                           Date Extracted: 06/19/12 14:38
Sample ID   : SL-559-SA5C-SB-7.0-8.0          Date Analyzed: 06/21/12 04:39
Lab Samp ID: F051-21                           Dilution Factor: 1
Lab File ID: SF20036A                          Matrix          : SOIL
Ext Btch ID: CPF019S                           % Moisture     : 13.3
Calib. Ref.: SF20022A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.87)   15.97	15.37	(90.2)   104	45-120
TETRACHLORO-M-XYLENE	(12.89)   15.11	15.37	(83.9)   98.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/19/12 14:38
Sample ID    : SL-548-SA5C-SB-9.0-10.0         Date Analyzed: 06/21/12 05:13
Lab Samp ID  : F051-23                          Dilution Factor: 1
Lab File ID  : SF20037A                        Matrix          : SOIL
Ext Btch ID  : CPF019S                         % Moisture     : 11.7
Calib. Ref.  : SF20022A                       Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.82)   15.49	15.10	(84.9)   103	45-120
TETRACHLORO-M-XYLENE	(12.54)   14.81	15.10	(83.0)   98.1	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/19/12
Batch No.  : 12F051                             Date Extracted: 06/19/12 14:38
Sample ID  : MBLK1S                             Date Analyzed: 06/20/12 17:14
Lab Samp ID: 60F019SB                           Dilution Factor: 1
Lab File ID: SF20016A                           Matrix          : SOIL
Ext Btch ID: CPF019S                             % Moisture     : NA
Calib. Ref.: SF20009A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(12.17)   14.28	13.33	(91.3)   107	45-120
TETRACHLORO-M-XYLENE	(12.31)   14.06	13.33	(92.3)   105	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F019SB 60F019SL 60F019SC  
LAB FILE ID: SF20016A SF20017A SF20018A  
DATE EXTRACTED: 06/19/1214:38 06/19/1214:38 06/19/1214:38 DATE COLLECTED: NA  
DATE ANALYZED: 06/20/1217:14 06/20/1217:49 06/20/1218:23 DATE RECEIVED: 06/19/12  
PREP. BATCH: CPF019S CPF019S CPF019S  
CALIB. REF: SF20009A SF20009A SF20009A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(128)   159	(77)   95	167	(143)   182	(86)   109	(11)   13	50-130	50
Aroclor 1260	(ND)   ND	167	(152)   199	(91)   119	167	(145)   195	(87)   117	(5)   2	60-150	50
Aroclor 5460	(ND)   ND	83.3	(95.5)   104	(115)   125	83.3	(94.6)   104	(114)   125	(1)   0	50-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(13.07)   14.52	(98.1)   109	13.33	(12.84)   14.20	(96.3)   107	45-120
Tetrachloro-m-xylene	13.33	(10.36)   12.55	(77.7)   94.2	13.33	(12.42)   13.96	(93.2)   105	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 11.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-548-SA5C-SB-9.0-10.0  
LAB SAMP ID: F051-23 F051-23M F051-23S  
LAB FILE ID: SF20037A SF20019A SF20020A  
DATE EXTRACTED: 06/19/1214:38 06/19/1214:38 06/19/1214:38 DATE COLLECTED: 06/07/12  
DATE ANALYZED: 06/21/1205:13 06/20/1218:57 06/20/1219:31 DATE RECEIVED: 06/07/12  
PREP. BATCH: CPF019S CPF019S CPF019S  
CALIB. REF: SF20022A SF20009A SF20009A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	189	(164)   202	(87)   107	189	(165)   203	(87)   108	(1)   0	20-160	50
Aroclor 1260	(ND)   ND	189	(167)   219	(88)   116	189	(167)   221	(88)   117	(0)   1	20-160	50
Aroclor 5460	(ND)   ND	94.4	(108)   117	(114)   124	94.4	(108)   116	(114)   123	(0)   1	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	15.10	(13.62)   15.69	(90.2)   104	15.10	(13.64)   15.70	(90.4)   104	45-120
Tetrachloro-m-xylene	15.10	(13.29)   14.91	(88.0)   98.7	15.10	(13.38)   14.92	(88.6)   98.8	10-160

METHOD 8151A  
HERBICIDES

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
Batch No.    : 12F051                           Date Extracted: 06/08/12 18:41
Sample ID    : EB1-060712                       Date Analyzed: 06/11/12 21:08
Lab Samp ID  : F051-01                          Dilution Factor: 1
Lab File ID  : WF11022A                         Matrix          : WATER
Ext Btch ID  : HEF002W                          % Moisture     : NA
Calib. Ref.  : WF11012A                         Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
2,4-D	(ND)   ND	0.80	0.20   0.20
2,4-DB	(ND)   ND	0.80	0.20   0.20
2,4,5-T	(ND)   ND	0.80	0.20   0.20
2,4,5-TP (SILVEX)	(ND)   ND	0.80	0.20   0.20
DALAPON	(ND)   ND	0.80	0.20   0.20
DICAMBA	(ND)   ND	0.80	0.20   0.20
DICHLOROPROP	(ND)   ND	0.80	0.20   0.20
DINOSEB	(ND)   0.20J	0.80	0.20   0.20
MCPA	(ND)   ND	100	20   20
MCPA	(ND)   ND	100	20   20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(8.137)   7.790	10.00	(81.4)   77.9	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/08/12
Batch No.    : 12F051                           Date Extracted: 06/08/12 18:41
Sample ID    : MBLK1W                            Date Analyzed: 06/11/12 17:56
Lab Samp ID  : HEF002WB                          Dilution Factor: 1
Lab File ID  : WF11013A                          Matrix          : WATER
Ext Btch ID  : HEF002W                            % Moisture     : NA
Calib. Ref.  : WF11012A                          Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
2,4-D	(ND)   ND	0.80	0.20   0.20
2,4-DB	(ND)   ND	0.80	0.20   0.20
2,4,5-T	(ND)   ND	0.80	0.20   0.20
2,4,5-TP (SILVEX)	(ND)   ND	0.80	0.20   0.20
DALAPON	(ND)   ND	0.80	0.20   0.20
DICAMBA	(ND)   ND	0.80	0.20   0.20
DICHLOROPROP	(ND)   ND	0.80	0.20   0.20
DINOSEB	(ND)   ND	0.80	0.20   0.20
MCPA	(ND)   ND	100	20   20
MCPA	(ND)   ND	100	20   20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(10.38)   10.04	10.00	(104)   100	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 8151A

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HEF002WB HEF002WL HEF002WC  
LAB FILE ID: WF11013A WF11014A WF11015A  
DATE EXTRACTED: 06/08/1218:41 06/08/1218:41 06/08/1218:41 DATE COLLECTED: NA  
DATE ANALYZED: 06/11/1217:56 06/11/1218:17 06/11/1218:39 DATE RECEIVED: 06/08/12  
PREP. BATCH: HEF002W HEF002W HEF002W  
CALIB. REF: WF11012A WF11012A WF11012A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
2,4-D	(ND)   ND	1.00	(1.13)   1.11	(113)   111	1.00	(1.07)   1.04	(107)   104	(5)   7	40-130	30
2,4-DB	(ND)   ND	1.00	(1.01)   0.948	(101)   95	1.00	(0.909)   0.858	(91)   86	(11)   10	30-160	30
2,4,5-T	(ND)   ND	1.00	(1.06)   0.992	(106)   99	1.00	(0.981)   0.830	(98)   83	(8)   18	40-140	30
2,4,5-TP (Silvex)	(ND)   ND	1.00	1.11   (1.18)	111   (118)	1.00	1.07   (1.09)	107   (109)	4   (8)	60-140	30
Dalapon	(ND)   ND	1.00	0.779J   (1.07)	78   (107)	1.00	0.728J   (1.01)	73   (101)	7   (6)	30-130	30
Dicamba	(ND)   ND	1.00	(1.07)   1.07	(107)   107	1.00	(1.00)   0.994	(100)   99	(7)   7	50-130	30
Dichloroprop	(ND)   ND	1.00	1.16   (1.20)	116   (120)	1.00	1.13   (1.19)	113   (119)	3   (1)	70-150	30
Dinoseb	(ND)   ND	1.00	(0.914)   0.780J	(91)   78	1.00	(0.864)   0.783J	(86)   78	(6)   0	20-130	30
MCPA	(ND)   ND	50.0	53.8J   (56.2J)	108   (112)	50.0	50.9J   (52.8J)	102   (106)	6   (6)	30-150	30
MCPP	(ND)   ND	50.0	(57.3J)   50.5J	(115)   101	50.0	(51.2J)   48.2J	(102)   96	(11)   5	30-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
2,4-DCPAA	10.00	(10.37)   10.35	(104)   103	10.00	(10.09)   10.02	(101)   100	40-140

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12F051                           Date Extracted: 06/12/12 11:08
Sample ID: EB1-060712                         Date Analyzed: 06/14/12 14:11
Lab Samp ID: F051-01                          Dilution Factor: 1
Lab File ID: 98F07022                        Matrix          : WATER
Ext Btch ID: IMF024W                         % Moisture     : NA
Calib. Ref.: 98F07016                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	0.0449J	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00577J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	0.0314J	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.00190	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	0.0803J	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/07/12
Project    : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12F051                           Date Extracted: 06/12/12 11:08
Sample ID  : EB2-060712                       Date Analyzed: 06/14/12 14:15
Lab Samp ID: F051-02                           Dilution Factor: 1
Lab File ID: 98F07023                         Matrix          : WATER
Ext Btch ID: IMF024W                          % Moisture     : NA
Calib. Ref.: 98F07016                         Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	0.000605J	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00592J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	0.0496J	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	0.000211J	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	0.000336J	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.    : 12F051                           Date Extracted: 06/12/12 11:08
Sample ID  : MBLK1W                            Date Analyzed: 06/14/12 13:52
Lab Samp ID: IMF024WB                         Dilution Factor: 1
Lab File ID: 98F07018                        Matrix          : WATER
Ext Btch ID: IMF024W                          % Moisture     : NA
Calib. Ref.: 98F07016                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F051  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMF024WB IMF024WL IMF024WC  
LAB FILE ID: 98F07018 98F07019 98F07020  
DATIME EXTRACTD: 06/12/1211:08 06/12/1211:08 06/12/1211:08 DATE COLLECTED: NA  
DATIME ANALYZD: 06/14/1213:52 06/14/1213:57 06/14/1214:02 DATE RECEIVED: 06/12/12  
PREP. BATCH: IMF024W IMF024W IMF024W  
CALIB. REF: 98F07016 98F07016 98F07016

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.54	101	2.50	2.52	101	1	80-120	20
Antimony	ND	0.0250	0.0264	106	0.0250	0.0257	103	3	80-120	20
Arsenic	ND	0.0250	0.0255	102	0.0250	0.0255	102	0	80-120	20
Barium	ND	0.0250	0.0265	106	0.0250	0.0260	104	2	80-120	20
Beryllium	ND	0.0250	0.0265	106	0.0250	0.0260	104	2	80-120	20
Boron	ND	0.0250	0.0271	108	0.0250	0.0266	106	2	80-120	20
Cadmium	ND	0.0250	0.0260	104	0.0250	0.0254	101	3	80-120	20
Calcium	ND	2.50	2.71	108	2.50	2.71	108	0	80-120	20
Chromium	ND	0.0250	0.0256	103	0.0250	0.0249	100	3	80-120	20
Cobalt	ND	0.0250	0.0255	102	0.0250	0.0253	101	1	80-120	20
Copper	ND	0.0250	0.0262	105	0.0250	0.0255	102	3	80-120	20
Iron	ND	2.50	2.71	108	2.50	2.70	108	0	80-120	20
Lead	ND	0.0250	0.0263	105	0.0250	0.0261	105	1	80-120	20
Magnesium	ND	2.50	2.55	102	2.50	2.49	99	2	80-120	20
Manganese	ND	0.0250	0.0260	104	0.0250	0.0255	102	2	80-120	20
Molybdenum	ND	0.0250	0.0253	101	0.0250	0.0248	99	2	80-120	20
Nickel	ND	0.0250	0.0258	103	0.0250	0.0253	101	2	80-120	20
Potassium	ND	2.50	2.64	106	2.50	2.60	104	2	80-120	20
Selenium	ND	0.0250	0.0252	101	0.0250	0.0254	102	1	80-120	20
Silver	ND	0.0250	0.0264	106	0.0250	0.0256	102	3	80-120	20
Sodium	ND	2.50	2.67	107	2.50	2.64	106	1	80-120	20
Strontium	ND	0.0250	0.0253	101	0.0250	0.0250	100	1	80-120	20
Thallium	ND	0.0250	0.0254	101	0.0250	0.0247	99	3	80-120	20
Tin	ND	0.0250	0.0263	105	0.0250	0.0257	103	2	80-120	20
Titanium	ND	0.0250	0.0258	103	0.0250	0.0252	101	2	80-120	20
Vanadium	ND	0.0250	0.0253	101	0.0250	0.0247	99	2	80-120	20
Zinc	ND	0.0500	0.0523	105	0.0500	0.0521	104	0	80-120	20
Lithium	ND	0.0250	0.0250	100	0.0250	0.0251	100	0	80-120	20
Phosphorus	ND	0.250	0.244	98	0.250	0.242	97	1	80-120	20
Zirconium	ND	0.0250	0.0251	101	0.0250	0.0257	103	2	80-120	20

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12F051                           Date Extracted: 06/13/12 10:30
Sample ID:  SL-537-SA5C-SB-0.0-0.5           Date Analyzed: 06/15/12 15:44
Lab Samp ID: F051-06                          Dilution Factor: 0.962
Lab File ID: 98F08043                         Matrix          : SOIL
Ext Btch ID: IMF027S                          % Moisture     : 11.9
Calib. Ref.: 98F08039                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	22700	109	13.1
Antimony	0.264J	0.546	0.109
Arsenic	5.42	0.546	0.218
Barium	190	0.546	0.218
Beryllium	1.16	0.546	0.0546
Boron	ND	5.46	2.73
Cadmium	0.301J	0.546	0.0546
Calcium	4350	21.8	10.9
Chromium	27.9	0.546	0.218
Cobalt	10.1	0.546	0.0546
Copper	11.8	0.546	0.218
Iron	27800	109	10.9
Lead	10.3	0.546	0.109
Magnesium	4730	10.9	5.46
Manganese	409	0.546	0.273
Molybdenum	0.573	0.546	0.0546
Nickel	15.4	0.546	0.218
Potassium	2080	109	32.8
Selenium	0.253J	0.546	0.218
Silver	0.0805J	0.546	0.0546
Sodium	378	109	54.6
Strontium	47.0	0.546	0.273
Thallium	0.341J	0.437	0.0546
Tin	ND	10.9	5.46
Titanium	596	1.09	0.546
Vanadium	54.5	0.546	0.0546
Zinc	52.5	5.46	1.64
Lithium	17.2	2.18	1.09
Phosphorus	118	13.1	6.55
Zirconium	ND	5.46	2.73

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12F051                           Date Extracted: 06/13/12 10:30
Sample ID:  SL-537-SA5C-SB-4.0-5.0           Date Analyzed: 06/15/12 15:49
Lab Samp ID: F051-07                          Dilution Factor: 0.957
Lab File ID: 98F08044                         Matrix          : SOIL
Ext Btch ID: IMF027S                          % Moisture     : 13.8
Calib. Ref.: 98F08039                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	22800	111	13.3
Antimony	0.220J	0.555	0.111
Arsenic	5.18	0.555	0.222
Barium	179	0.555	0.222
Beryllium	0.987	0.555	0.0555
Boron	ND	5.55	2.78
Cadmium	0.254J	0.555	0.0555
Calcium	6760	22.2	11.1
Chromium	26.7	0.555	0.222
Cobalt	8.02	0.555	0.0555
Copper	12.4	0.555	0.222
Iron	26800	111	11.1
Lead	8.19	0.555	0.111
Magnesium	5950	11.1	5.55
Manganese	293	0.555	0.278
Molybdenum	0.321J	0.555	0.0555
Nickel	15.6	0.555	0.222
Potassium	2090	111	33.3
Selenium	ND	0.555	0.222
Silver	0.0797J	0.555	0.0555
Sodium	610	111	55.5
Strontium	54.7	0.555	0.278
Thallium	0.294J	0.444	0.0555
Tin	ND	11.1	5.55
Titanium	867	1.11	0.555
Vanadium	49.6	0.555	0.0555
Zinc	55.5	5.55	1.67
Lithium	22.8	2.22	1.11
Phosphorus	134	13.3	6.66
Zirconium	3.64J	5.55	2.78

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12F051                           Date Extracted: 06/13/12 10:30
Sample ID:  SL-537-SA5C-SB-9.0-10.0          Date Analyzed: 06/15/12 15:53
Lab Samp ID: F051-09                          Dilution Factor: 0.957
Lab File ID: 98F08045                         Matrix          : SOIL
Ext Btch ID: IMF027S                          % Moisture     : 13.9
Calib. Ref.: 98F08039                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14300	111	13.3
Antimony	0.207J	0.556	0.111
Arsenic	4.12	0.556	0.222
Barium	62.2	0.556	0.222
Beryllium	0.731	0.556	0.0556
Boron	ND	5.56	2.78
Cadmium	0.153J	0.556	0.0556
Calcium	3270	22.2	11.1
Chromium	18.9	0.556	0.222
Cobalt	5.39	0.556	0.0556
Copper	8.70	0.556	0.222
Iron	20200	111	11.1
Lead	5.62	0.556	0.111
Magnesium	3440	11.1	5.56
Manganese	172	0.556	0.278
Molybdenum	0.279J	0.556	0.0556
Nickel	9.58	0.556	0.222
Potassium	1460	111	33.3
Selenium	ND	0.556	0.222
Silver	ND	0.556	0.0556
Sodium	405	111	55.6
Strontium	30.2	0.556	0.278
Thallium	0.226J	0.445	0.0556
Tin	ND	11.1	5.56
Titanium	709	1.11	0.556
Vanadium	31.2	0.556	0.0556
Zinc	40.7	5.56	1.67
Lithium	18.2	2.22	1.11
Phosphorus	135	13.3	6.67
Zirconium	ND	5.56	2.78

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/07/12
Project    : SSFL PHASE 3                       Date Received: 06/07/12
SDG NO.    : 12F051                             Date Extracted: 06/13/12 10:30
Sample ID  : SL-547-SA5C-SB-4.0-5.0            Date Analyzed: 06/15/12 15:58
Lab Samp ID: F051-11                           Dilution Factor: 1.00
Lab File ID: 98F08046                           Matrix          : SOIL
Ext Btch ID: IMF027S                             % Moisture     : 9.6
Calib. Ref.: 98F08039                           Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13600	111	13.3
Antimony	0.213J	0.553	0.111
Arsenic	6.22	0.553	0.221
Barium	99.6	0.553	0.221
Beryllium	0.814	0.553	0.0553
Boron	ND	5.53	2.77
Cadmium	0.208J	0.553	0.0553
Calcium	3280	22.1	11.1
Chromium	16.7	0.553	0.221
Cobalt	6.89	0.553	0.0553
Copper	8.58	0.553	0.221
Iron	21000	111	11.1
Lead	8.84	0.553	0.111
Magnesium	3320	11.1	5.53
Manganese	265	0.553	0.277
Molybdenum	0.432J	0.553	0.0553
Nickel	9.69	0.553	0.221
Potassium	1670	111	33.2
Selenium	ND	0.553	0.221
Silver	ND	0.553	0.0553
Sodium	315	111	55.3
Strontium	28.1	0.553	0.277
Thallium	0.201J	0.442	0.0553
Tin	ND	11.1	5.53
Titanium	582	1.11	0.553
Vanadium	43.2	0.553	0.0553
Zinc	35.6	5.53	1.66
Lithium	13.2	2.21	1.11
Phosphorus	173	13.3	6.64
Zirconium	ND	5.53	2.77

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12F051                            Date Extracted: 06/13/12 10:30
Sample ID:  SL-547-SA5C-SB-9.0-10.0          Date Analyzed: 06/15/12 16:02
Lab Samp ID: F051-13                          Dilution Factor: 0.966
Lab File ID: 98F08047                          Matrix          : SOIL
Ext Btch ID: IMF027S                            % Moisture     : 7.7
Calib. Ref.: 98F08039                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12700	105	12.6
Antimony	0.183J	0.523	0.105
Arsenic	3.70	0.523	0.209
Barium	70.6	0.523	0.209
Beryllium	0.513J	0.523	0.0523
Boron	ND	5.23	2.62
Cadmium	0.201J	0.523	0.0523
Calcium	11900	20.9	10.5
Chromium	20.0	0.523	0.209
Cobalt	6.02	0.523	0.0523
Copper	9.87	0.523	0.209
Iron	19800	105	10.5
Lead	6.09	0.523	0.105
Magnesium	4060	10.5	5.23
Manganese	197	0.523	0.262
Molybdenum	0.640	0.523	0.0523
Nickel	11.3	0.523	0.209
Potassium	2000	105	31.4
Selenium	0.313J	0.523	0.209
Silver	ND	0.523	0.0523
Sodium	300	105	52.3
Strontium	37.0	0.523	0.262
Thallium	0.196J	0.419	0.0523
Tin	ND	10.5	5.23
Titanium	727	1.05	0.523
Vanadium	34.2	0.523	0.0523
Zinc	51.5	5.23	1.57
Lithium	18.5	2.09	1.05
Phosphorus	313	12.6	6.28
Zirconium	ND	5.23	2.62

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/07/12
Project    : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12F051                           Date Extracted: 06/13/12 10:30
Sample ID  : SL-548-SA5C-SB-4.0-5.0          Date Analyzed: 06/15/12 16:07
Lab Samp ID: F051-15                           Dilution Factor: 0.980
Lab File ID: 98F08048                          Matrix          : SOIL
Ext Btch ID: IMF027S                           % Moisture     : 13.2
Calib. Ref.: 98F08039                          Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17800	113	13.5
Antimony	0.260J	0.565	0.113
Arsenic	4.65	0.565	0.226
Barium	71.0	0.565	0.226
Beryllium	0.772	0.565	0.0565
Boron	ND	5.65	2.82
Cadmium	0.228J	0.565	0.0565
Calcium	9630	22.6	11.3
Chromium	21.7	0.565	0.226
Cobalt	5.03	0.565	0.0565
Copper	10.3	0.565	0.226
Iron	22700	113	11.3
Lead	6.76	0.565	0.113
Magnesium	4900	11.3	5.65
Manganese	170	0.565	0.282
Molybdenum	0.440J	0.565	0.0565
Nickel	11.8	0.565	0.226
Potassium	1930	113	33.9
Selenium	ND	0.565	0.226
Silver	0.0767J	0.565	0.0565
Sodium	328	113	56.5
Strontium	41.4	0.565	0.282
Thallium	0.261J	0.452	0.0565
Tin	ND	11.3	5.65
Titanium	832	1.13	0.565
Vanadium	41.5	0.565	0.0565
Zinc	49.3	5.65	1.69
Lithium	19.3	2.26	1.13
Phosphorus	192	13.5	6.77
Zirconium	ND	5.65	2.82

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12F051                           Date Extracted: 06/13/12 10:30
Sample ID:  SL-559-SA5C-SB-0.0-0.5           Date Analyzed: 06/15/12 16:12
Lab Samp ID: F051-18                          Dilution Factor: 0.971
Lab File ID: 98F08049                         Matrix          : SOIL
Ext Btch ID: IMF027S                          % Moisture     : 14.1
Calib. Ref.: 98F08039                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14200	113	13.6
Antimony	0.302J	0.565	0.113
Arsenic	4.14	0.565	0.226
Barium	113	0.565	0.226
Beryllium	0.661	0.565	0.0565
Boron	ND	5.65	2.83
Cadmium	0.723	0.565	0.0565
Calcium	2640	22.6	11.3
Chromium	17.3	0.565	0.226
Cobalt	5.76	0.565	0.0565
Copper	9.79	0.565	0.226
Iron	19200	113	11.3
Lead	7.13	0.565	0.113
Magnesium	3520	11.3	5.65
Manganese	229	0.565	0.283
Molybdenum	0.532J	0.565	0.0565
Nickel	9.70	0.565	0.226
Potassium	2050	113	33.9
Selenium	ND	0.565	0.226
Silver	ND	0.565	0.0565
Sodium	106J	113	56.5
Strontium	22.7	0.565	0.283
Thallium	0.236J	0.452	0.0565
Tin	ND	11.3	5.65
Titanium	800	1.13	0.565
Vanadium	33.9	0.565	0.0565
Zinc	140	5.65	1.70
Lithium	13.9	2.26	1.13
Phosphorus	160	13.6	6.78
Zirconium	ND	5.65	2.83

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.     : 12F051                           Date Extracted: 06/13/12 10:30
Sample ID   : SL-559-SA5C-SB-2.0-3.0          Date Analyzed: 06/15/12 16:30
Lab Samp ID : F051-19                           Dilution Factor: 1.00
Lab File ID : 98F08053                         Matrix          : SOIL
Ext Btch ID : IMF027S                          % Moisture     : 14.6
Calib. Ref. : 98F08051                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15800	117	14.1
Antimony	0.229J	0.585	0.117
Arsenic	4.62	0.585	0.234
Barium	115	0.585	0.234
Beryllium	0.708	0.585	0.0585
Boron	ND	5.85	2.93
Cadmium	0.183J	0.585	0.0585
Calcium	2820	23.4	11.7
Chromium	17.4	0.585	0.234
Cobalt	5.34	0.585	0.0585
Copper	6.55	0.585	0.234
Iron	20500	117	11.7
Lead	6.90	0.585	0.117
Magnesium	3470	11.7	5.85
Manganese	205	0.585	0.293
Molybdenum	0.450J	0.585	0.0585
Nickel	8.92	0.585	0.234
Potassium	1640	117	35.1
Selenium	ND	0.585	0.234
Silver	ND	0.585	0.0585
Sodium	122	117	58.5
Strontium	25.7	0.585	0.293
Thallium	0.233J	0.468	0.0585
Tin	ND	11.7	5.85
Titanium	775	1.17	0.585
Vanadium	36.4	0.585	0.0585
Zinc	42.9	5.85	1.76
Lithium	13.9	2.34	1.17
Phosphorus	143	14.1	7.03
Zirconium	ND	5.85	2.93

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/07/12
Project     : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12F051                           Date Extracted: 06/13/12 10:30
Sample ID:  SL-559-SA5C-SB-7.0-8.0           Date Analyzed: 06/15/12 16:35
Lab Samp ID: F051-21                         Dilution Factor: 0.962
Lab File ID: 98F08054                       Matrix          : SOIL
Ext Btch ID: IMF027S                        % Moisture     : 13.3
Calib. Ref.: 98F08051                       Instrument ID  : T-198
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13000	111	13.3
Antimony	0.175J	0.555	0.111
Arsenic	4.25	0.555	0.222
Barium	80.6	0.555	0.222
Beryllium	0.585	0.555	0.0555
Boron	ND	5.55	2.77
Cadmium	0.129J	0.555	0.0555
Calcium	3340	22.2	11.1
Chromium	18.1	0.555	0.222
Cobalt	4.93	0.555	0.0555
Copper	7.82	0.555	0.222
Iron	20600	111	11.1
Lead	5.20	0.555	0.111
Magnesium	4180	11.1	5.55
Manganese	173	0.555	0.277
Molybdenum	0.310J	0.555	0.0555
Nickel	9.15	0.555	0.222
Potassium	1650	111	33.3
Selenium	ND	0.555	0.222
Silver	ND	0.555	0.0555
Sodium	244	111	55.5
Strontium	36.6	0.555	0.277
Thallium	0.228J	0.444	0.0555
Tin	ND	11.1	5.55
Titanium	871	1.11	0.555
Vanadium	30.8	0.555	0.0555
Zinc	53.7	5.55	1.66
Lithium	18.1	2.22	1.11
Phosphorus	211	13.3	6.66
Zirconium	ND	5.55	2.77

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/07/12
Project    : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.    : 12F051                           Date Extracted: 06/13/12 10:30
Sample ID: SL-548-SA5C-SB-9.0-10.0           Date Analyzed: 06/15/12 16:39
Lab Samp ID: F051-23                          Dilution Factor: 0.995
Lab File ID: 98F08055                         Matrix          : SOIL
Ext Btch ID: IMF027S                          % Moisture     : 11.7
Calib. Ref.: 98F08051                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19800	113	13.5
Antimony	0.412J	0.563	0.113
Arsenic	5.65	0.563	0.225
Barium	127	0.563	0.225
Beryllium	0.867	0.563	0.0563
Boron	ND	5.63	2.82
Cadmium	0.243J	0.563	0.0563
Calcium	5380	22.5	11.3
Chromium	23.7	0.563	0.225
Cobalt	6.04	0.563	0.0563
Copper	11.2	0.563	0.225
Iron	25300	113	11.3
Lead	8.56	0.563	0.113
Magnesium	5060	11.3	5.63
Manganese	253	0.563	0.282
Molybdenum	0.576	0.563	0.0563
Nickel	16.2	0.563	0.225
Potassium	2650	113	33.8
Selenium	ND	0.563	0.225
Silver	0.0970J	0.563	0.0563
Sodium	387	113	56.3
Strontium	38.8	0.563	0.282
Thallium	0.286J	0.451	0.0563
Tin	ND	11.3	5.63
Titanium	868	1.13	0.563
Vanadium	41.7	0.563	0.0563
Zinc	57.2	5.63	1.69
Lithium	23.7	2.25	1.13
Phosphorus	175	13.5	6.76
Zirconium	ND	5.63	2.82

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.     : 12F051                           Date Extracted: 06/13/12 10:30
Sample ID   : SL-571-SA5C-SB-4.0-5.0          Date Analyzed: 06/15/12 16:44
Lab Samp ID : F051-24                          Dilution Factor: 0.962
Lab File ID : 98F08056                         Matrix          : SOIL
Ext Btch ID : IMF027S                          % Moisture     : 10.6
Calib. Ref. : 98F08051                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17100	108	12.9
Antimony	0.335J	0.538	0.108
Arsenic	5.53	0.538	0.215
Barium	241	0.538	0.215
Beryllium	0.757	0.538	0.0538
Boron	ND	5.38	2.69
Cadmium	0.344J	0.538	0.0538
Calcium	3440	21.5	10.8
Chromium	27.0	0.538	0.215
Cobalt	5.73	0.538	0.0538
Copper	11.1	0.538	0.215
Iron	23100	108	10.8
Lead	15.5	0.538	0.108
Magnesium	4820	10.8	5.38
Manganese	216	0.538	0.269
Molybdenum	3.31	0.538	0.0538
Nickel	14.5	0.538	0.215
Potassium	2000	108	32.3
Selenium	ND	0.538	0.215
Silver	ND	0.538	0.0538
Sodium	510	108	53.8
Strontium	42.8	0.538	0.269
Thallium	0.253J	0.430	0.0538
Tin	ND	10.8	5.38
Titanium	907	1.08	0.538
Vanadium	39.2	0.538	0.0538
Zinc	59.0	5.38	1.61
Lithium	22.8	2.15	1.08
Phosphorus	157	12.9	6.46
Zirconium	ND	5.38	2.69

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 06/07/12
Project      : SSFL PHASE 3                     Date Received: 06/07/12
SDG NO.     : 12F051                           Date Extracted: 06/13/12 10:30
Sample ID   : SL-571-SA5C-SB-9.0-10.0         Date Analyzed: 06/14/12 17:48
Lab Samp ID : F051-26                           Dilution Factor: 0.995
Lab File ID : 98F07067                         Matrix          : SOIL
Ext Btch ID : IMF027S                          % Moisture     : 10.8
Calib. Ref. : 98F07061                         Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12800	112	13.4
Antimony	0.244J	0.558	0.112
Arsenic	5.12	0.558	0.223
Barium	42.3	0.558	0.223
Beryllium	0.574	0.558	0.0558
Boron	ND	5.58	2.79
Cadmium	0.141J	0.558	0.0558
Calcium	2870	22.3	11.2
Chromium	18.9	0.558	0.223
Cobalt	5.09	0.558	0.0558
Copper	9.29	0.558	0.223
Iron	21100	112	11.2
Lead	6.44	0.558	0.112
Magnesium	4680	11.2	5.58
Manganese	153	0.558	0.279
Molybdenum	0.584	0.558	0.0558
Nickel	10.1	0.558	0.223
Potassium	1830	112	33.5
Selenium	ND	0.558	0.223
Silver	ND	0.558	0.0558
Sodium	499	112	55.8
Strontium	31.5	0.558	0.279
Thallium	0.273J	0.446	0.0558
Tin	ND	11.2	5.58
Titanium	897	1.12	0.558
Vanadium	35.5	0.558	0.0558
Zinc	45.5	5.58	1.67
Lithium	19.6	2.23	1.12
Phosphorus	87.5	13.4	6.69
Zirconium	ND	5.58	2.79

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/13/12
SDG NO.    : 12F051                           Date Extracted: 06/13/12 10:30
Sample ID: MBLK1S                             Date Analyzed: 06/14/12 17:30
Lab Samp ID: IMF027SB                         Dilution Factor: 1
Lab File ID: 98F07063                        Matrix          : SOIL
Ext Btch ID: IMF027S                          % Moisture     : NA
Calib. Ref.: 98F07061                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F051  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF027SB IMF027SL IMF027SC  
LAB FILE ID: 98F07063 98F07064 98F07065  
DATIME EXTRACTD: 06/13/1210:30 06/13/1210:30 06/13/1210:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/14/1217:30 06/14/1217:35 06/14/1217:39 DATE RECEIVED: 06/13/12  
PREP. BATCH: IMF027S IMF027S IMF027S  
CALIB. REF: 98F07061 98F07061 98F07061

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2470	99	2500	2510	100	1	80-120	20
Antimony	ND	25.0	25.5	102	25.0	26.1	104	2	80-120	20
Arsenic	ND	25.0	24.4	98	25.0	24.6	98	1	80-120	20
Barium	ND	25.0	25.7	103	25.0	26.5	106	3	80-120	20
Beryllium	ND	25.0	24.6	98	25.0	24.6	98	0	80-120	20
Boron	ND	25.0	24.6	99	25.0	24.8	99	1	80-120	20
Cadmium	ND	25.0	25.2	101	25.0	25.3	101	0	80-120	20
Calcium	ND	2500	2720	109	2500	2740	110	1	80-120	20
Chromium	ND	25.0	24.2	97	25.0	24.2	97	0	80-120	20
Cobalt	ND	25.0	25.1	100	25.0	25.5	102	2	80-120	20
Copper	ND	25.0	23.9	96	25.0	23.9	95	0	80-120	20
Iron	ND	2500	2650	106	2500	2660	106	1	80-120	20
Lead	ND	25.0	25.6	102	25.0	25.7	103	1	80-120	20
Magnesium	ND	2500	2460	98	2500	2480	99	1	80-120	20
Manganese	ND	25.0	25.5	102	25.0	25.9	104	2	80-120	20
Molybdenum	ND	25.0	24.8	99	25.0	25.1	100	1	80-120	20
Nickel	ND	25.0	23.9	96	25.0	23.9	96	0	80-120	20
Potassium	ND	2500	2720	109	2500	2690	107	1	80-120	20
Selenium	ND	25.0	23.6	94	25.0	23.8	95	1	80-120	20
Silver	ND	25.0	24.6	98	25.0	25.1	100	2	80-120	20
Sodium	ND	2500	2660	107	2500	2670	107	0	80-120	20
Strontium	ND	25.0	25.5	102	25.0	25.5	102	0	80-120	20
Thallium	ND	25.0	25.4	102	25.0	25.4	102	0	80-120	20
Tin	ND	25.0	27.6	111	25.0	27.8	111	1	80-120	20
Titanium	ND	25.0	25.2	101	25.0	25.7	103	2	80-120	20
Vanadium	ND	25.0	24.0	96	25.0	24.1	96	0	80-120	20
Zinc	ND	50.0	48.2	96	50.0	48.0	96	1	80-120	20
Lithium	ND	25.0	25.8	103	25.0	25.6	102	1	80-120	20
Phosphorus	ND	250	238	95	250	239	96	0	80-120	20
Zirconium	ND	25.0	25.5	102	25.0	25.3	101	1	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F051  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 10.8

DILTN FACTR: 0.995 0.966 0.985

SAMPLE ID: SL-571-SA5C-SB-9.0-10.0

CONTROL NO.: F051-26 F051-26M F051-26S

LAB FILE ID: 98F07067 98F08041 98F08042

DATIME EXTRACTD: 06/13/1210:30 06/13/1210:30 06/13/1210:30 DATE COLLECTED: 06/07/12

DATIME ANALYZD: 06/14/1217:48 06/15/1215:35 06/15/1215:40 DATE RECEIVED: 06/07/12

PREP. BATCH: IMF027S IMF027S IMF027S

CALIB. REF: 98F07061 98F08039 98F08039

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	12800	2710	17300	166*	2760	17400	165*	0	75-125	20
Antimony	0.244J	27.1	20.9	76	27.6	20.6	74*	1	75-125	20
Arsenic	5.12	27.1	30.1	92	27.6	31.1	94	3	75-125	20
Barium	42.3	27.1	70.7	105	27.6	73.8	114	4	75-125	20
Beryllium	0.574	27.1	28.8	104	27.6	29.4	105	2	75-125	20
Boron	ND	27.1	28.6	106	27.6	29.1	105	2	75-125	20
Cadmium	0.141J	27.1	27.5	101	27.6	27.3	98	1	75-125	20
Calcium	2870	2710	5510	98	2760	5600	99	2	75-125	20
Chromium	18.9	27.1	44.0	93	27.6	47.1	102	7	75-125	20
Cobalt	5.09	27.1	30.0	92	27.6	30.4	92	1	75-125	20
Copper	9.29	27.1	32.9	87	27.6	35.1	93	6	75-125	20
Iron	21100	2710	24100	111	2760	26000	179*	8	75-125	20
Lead	6.44	27.1	32.8	97	27.6	34.1	100	4	75-125	20
Magnesium	4680	2710	7380	100	2760	7540	103	2	75-125	20
Manganese	153	27.1	176	83	27.6	188	127*	7	75-125	20
Molybdenum	0.584	27.1	26.8	97	27.6	27.3	97	2	75-125	20
Nickel	10.1	27.1	33.7	87	27.6	35.6	92	6	75-125	20
Potassium	1830	2710	4650	104	2760	4720	104	2	75-125	20
Selenium	ND	27.1	25.5	94	27.6	25.7	93	1	75-125	20
Silver	ND	27.1	26.8	99	27.6	26.9	97	0	75-125	20
Sodium	499	2710	3090	96	2760	3040	92	2	75-125	20
Strontium	31.5	27.1	59.4	103	27.6	60.8	106	2	75-125	20
Thallium	0.273J	27.1	26.8	98	27.6	26.9	96	0	75-125	20
Tin	ND	27.1	31.2	115	27.6	31.7	115	2	75-125	20
Titanium	897	27.1	1010	423*	27.6	1010	425*	0	75-125	20
Vanadium	35.5	27.1	60.8	93	27.6	65.9	110	8	75-125	20
Zinc	45.5	54.1	97.6	96	55.2	101	101	4	75-125	20
Lithium	19.6	27.1	52.0	120	27.6	52.8	120	2	75-125	20
Phosphorus	87.5	271	323	87	276	326	87	1	75-125	20
Zirconium	ND	27.1	27.0	100	27.6	27.1	98	0	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F051  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 10.8  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-571-SA5C-SB-9.0-10.0  
CONTROL NO.: F051-26 F051-26A  
LAB FILE ID: 98F07067 98F07066  
DATIME EXTRACTD: 06/13/1210:30 06/13/1210:30 DATE COLLECTED: 06/07/12  
DATIME ANALYZD: 06/14/1217:48 06/14/1217:44 DATE RECEIVED: 06/07/12  
PREP. BATCH: IMF027S IMF027S  
CALIB. REF: 98F07061 98F07061

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	12800	2790	15100	82	75-125
Antimony	0.244J	27.9	28.4	101	75-125
Arsenic	5.12	27.9	30.3	90	75-125
Barium	42.3	27.9	71.6	105	75-125
Beryllium	0.574	27.9	28.0	98	75-125
Boron	ND	27.9	28.4	102	75-125
Cadmium	0.141J	27.9	27.4	98	75-125
Calcium	2870	2790	5690	101	75-125
Chromium	18.9	27.9	42.8	86	75-125
Cobalt	5.09	27.9	29.7	88	75-125
Copper	9.29	27.9	32.4	83	75-125
Iron	21100	2790	23600	91	75-125
Lead	6.44	27.9	33.6	97	75-125
Magnesium	4680	2790	7080	86	75-125
Manganese	153	27.9	175	77	75-125
Molybdenum	0.584	27.9	27.8	98	75-125
Nickel	10.1	27.9	33.5	84	75-125
Potassium	1830	2790	4750	105	75-125
Selenium	ND	27.9	25.5	91	75-125
Silver	ND	27.9	27.1	97	75-125
Sodium	499	2790	3210	97	75-125
Strontium	31.5	27.9	57.4	93	75-125
Thallium	0.273J	27.9	27.0	96	75-125
Tin	ND	27.9	31.1	111	75-125
Titanium	897	27.9	907	38*	75-125
Vanadium	35.5	27.9	59.9	87	75-125
Zinc	45.5	55.8	95.1	89	75-125
Lithium	19.6	27.9	49.5	107	75-125
Phosphorus	87.5	279	326	85	75-125
Zirconium	ND	27.9	28.7	103	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F051  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 10.8  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-571-SA5C-SB SL-571-SA5C-SB  
 EMAX SAMP ID: F051-26 F051-26J  
 LAB FILE ID: 98F07067 98F07068  
 DATE EXTRACTED: 06/13/1210:30 06/13/1210:30 DATE COLLECTED: 06/07/12  
 DATE ANALYZED: 06/14/1217:48 06/14/1217:53 DATE RECEIVED: 06/07/12  
 PREP. BATCH: IMF027S IMF027S  
 CALIB. REF: 98F07061 98F07061

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	12800	13600	6	10
Antimony	0.244J	ND	NA	10
Arsenic	5.12	5.43	6	10
Barium	42.3	42.7	1	10
Beryllium	0.574	0.564J	NA	10
Boron	ND	ND	0	10
Cadmium	0.141J	ND	NA	10
Calcium	2870	3120	9	10
Chromium	18.9	20.4	8	10
Cobalt	5.09	5.54	9	10
Copper	9.29	10.2	10	10
Iron	21100	23100	10	10
Lead	6.44	6.57	2	10
Magnesium	4680	5020	7	10
Manganese	153	168	10	10
Molybdenum	0.584	0.576J	1	10
Nickel	10.1	11.1	10	10
Potassium	1830	1970	7	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	499	532J	NA	10
Strontium	31.5	31.7	1	10
Thallium	0.273J	ND	NA	10
Tin	ND	ND	0	10
Titanium	897	924	3	10
Vanadium	35.5	37.8	6	10
Zinc	45.5	46.6	2	10
Lithium	19.6	19.3	2	10
Phosphorus	87.5	103	18*	10
Zirconium	ND	ND	0	10

METHOD 7470A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F051  
=====

Matrix : WATER  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGF014WB	ND	1	NA	0.000500	0.000100	06/13/1214:21	06/13/1210:22	M47F008010	M47F008008	HGF014W	NA	06/13/12
LCS1W	HGF014WL	0.00488	1	NA	0.000500	0.000100	06/13/1214:23	06/13/1210:22	M47F008011	M47F008008	HGF014W	NA	06/13/12
LCD1W	HGF014WC	0.00487	1	NA	0.000500	0.000100	06/13/1214:25	06/13/1210:22	M47F008012	M47F008008	HGF014W	NA	06/13/12
EB1-060712	F051-01	ND	1	NA	0.000500	0.000100	06/13/1214:49	06/13/1210:22	M47F008023	M47F008020	HGF014W	06/07/12	06/07/12
EB2-060712	F051-02	ND	1	NA	0.000500	0.000100	06/13/1214:51	06/13/1210:22	M47F008024	M47F008020	HGF014W	06/07/12	06/07/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F051  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGF014WB HGF014WL HGF014WC  
LAB FILE ID: M47F008010 M47F008011 M47F008012  
DATIME EXTRCTD: 06/13/1210:22 06/13/1210:22 06/13/1210:22 DATE COLLECTED: NA  
DATIME ANALYZD: 06/13/1214:21 06/13/1214:23 06/13/1214:25 DATE RECEIVED: 06/13/12  
PREP. BATCH: HGF014W HGF014W HGF014W  
CALIB. REF: M47F008008 M47F008008 M47F008008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00488	98	.005	.00487	97	0	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F051

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGF016SB	ND	1	NA	0.100	0.0500	06/14/1216:25	06/14/1211:40	M47F009040	M47F009032	HGF016S	NA	06/14/12
LCS1S	HGF016SL	0.820	1	NA	0.100	0.0500	06/14/1216:27	06/14/1211:40	M47F009041	M47F009032	HGF016S	NA	06/14/12
LCD1S	HGF016SC	0.813	1	NA	0.100	0.0500	06/14/1216:29	06/14/1211:40	M47F009042	M47F009032	HGF016S	NA	06/14/12
SL-559-SA5C-SB-0.0-0.5AS	F051-18A	1.05	1.00	14.1	0.116	0.0582	06/14/1216:31	06/14/1211:40	M47F009043	M47F009032	HGF016S	06/07/12	06/07/12
SL-559-SA5C-SB-0.0-0.5	F051-18	ND	1.00	14.1	0.116	0.0582	06/14/1216:38	06/14/1211:40	M47F009046	M47F009044	HGF016S	06/07/12	06/07/12
SL-559-SA5C-SB-0.0-0.5DL	F051-18J	ND	5.00	14.1	0.582	0.291	06/14/1216:40	06/14/1211:40	M47F009047	M47F009044	HGF016S	06/07/12	06/07/12
SL-559-SA5C-SB-0.0-0.5MS	F051-18M	1.07	0.998	14.1	0.116	0.0581	06/14/1216:43	06/14/1211:40	M47F009048	M47F009044	HGF016S	06/07/12	06/07/12
SL-559-SA5C-SB-0.0-0.5MSDF	F051-18S	1.05	0.993	14.1	0.116	0.0578	06/14/1216:45	06/14/1211:40	M47F009049	M47F009044	HGF016S	06/07/12	06/07/12
SL-537-SA5C-SB-0.0-0.5	F051-06	ND	0.988	11.9	0.112	0.0561	06/14/1216:47	06/14/1211:40	M47F009050	M47F009044	HGF016S	06/07/12	06/07/12
SL-537-SA5C-SB-4.0-5.0	F051-07	ND	0.993	13.8	0.115	0.0576	06/14/1216:50	06/14/1211:40	M47F009051	M47F009044	HGF016S	06/07/12	06/07/12
SL-537-SA5C-SB-9.0-10.0	F051-09	ND	0.988	13.9	0.115	0.0574	06/14/1216:52	06/14/1211:40	M47F009052	M47F009044	HGF016S	06/07/12	06/07/12
SL-547-SA5C-SB-4.0-5.0	F051-11	ND	0.985	9.6	0.109	0.0545	06/14/1216:54	06/14/1211:40	M47F009053	M47F009044	HGF016S	06/07/12	06/07/12
SL-547-SA5C-SB-9.0-10.0	F051-13	ND	0.992	7.7	0.107	0.0537	06/14/1216:56	06/14/1211:40	M47F009054	M47F009044	HGF016S	06/07/12	06/07/12
SL-548-SA5C-SB-4.0-5.0	F051-15	ND	1.00	13.2	0.115	0.0576	06/14/1216:58	06/14/1211:40	M47F009055	M47F009044	HGF016S	06/07/12	06/07/12
SL-559-SA5C-SB-2.0-3.0	F051-19	ND	0.993	14.6	0.116	0.0581	06/14/1217:05	06/14/1211:40	M47F009058	M47F009056	HGF016S	06/07/12	06/07/12
SL-559-SA5C-SB-7.0-8.0	F051-21	ND	0.988	13.3	0.114	0.0570	06/14/1217:07	06/14/1211:40	M47F009059	M47F009056	HGF016S	06/07/12	06/07/12
SL-548-SA5C-SB-9.0-10.0	F051-23	ND	0.988	11.7	0.112	0.0559	06/14/1217:09	06/14/1211:40	M47F009060	M47F009056	HGF016S	06/07/12	06/07/12
SL-571-SA5C-SB-4.0-5.0	F051-24	ND	0.992	10.6	0.111	0.0555	06/14/1217:11	06/14/1211:40	M47F009061	M47F009056	HGF016S	06/07/12	06/07/12
SL-571-SA5C-SB-9.0-10.0	F051-26	ND	1.00	10.8	0.112	0.0561	06/14/1217:13	06/14/1211:40	M47F009062	M47F009056	HGF016S	06/07/12	06/07/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F051  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF016SB HGF016SL HGF016SC  
LAB FILE ID: M47F009040 M47F009041 M47F009042  
DATIME EXTRCTD: 06/14/1211:40 06/14/1211:40 06/14/1211:40 DATE COLLECTED: NA  
DATIME ANALYZD: 06/14/1216:25 06/14/1216:27 06/14/1216:29 DATE RECEIVED: 06/14/12  
PREP. BATCH: HGF016S HGF016S HGF016S  
CALIB. REF: M47F009032 M47F009032 M47F009032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.82	98	.833	.813	98	1	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F051  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 14.1  
DILTN FACTR: 1.00 0.998 0.993  
SAMPLE ID: SL-559-SA5C-SB-0.0-0.5  
CONTROL NO.: F051-18 F051-18M F051-18S  
LAB FILE ID: M47F009046 M47F009048 M47F009049  
DATIME EXTRCTD: 06/14/1211:40 06/14/1211:40 06/14/1211:40 DATE COLLECTED: 06/07/12  
DATIME ANALYZD: 06/14/1216:38 06/14/1216:43 06/14/1216:45 DATE RECEIVED: 06/07/12  
PREP. BATCH: HGF016S HGF016S HGF016S  
CALIB. REF: M47F009044 M47F009044 M47F009044

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.968	1.07	111	.963	1.05	109	2	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F051  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 14.1  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-559-SA5C-SB-0.0-0.5  
CONTROL NO.: F051-18 F051-18A  
LAB FILE ID: M47F009046 M47F009043  
DATIME EXTRCTD: 06/14/1211:40 06/14/1211:40 DATE COLLECTED: 06/07/12  
DATIME ANALYZD: 06/14/1216:38 06/14/1216:31 DATE RECEIVED: 06/07/12  
PREP. BATCH: HGF016S HGF016S  
CALIB. REF: M47F009044 M47F009032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.97	1.05	108	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F051  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 14.1  
 DILUTION FACTOR: 1.00 5.00  
 SAMPLE ID: SL-559-SA5C-SB-0.0- SL-559-SA5C-SB-0.0-  
 EMAX SAMP ID: F051-18 F051-18J  
 LAB FILE ID: M47F009046 M47F009047  
 DATE EXTRACTED: 06/14/1211:40 06/14/1211:40 DATE COLLECTED: 06/07/12  
 DATE ANALYZED: 06/14/1216:38 06/14/1216:40 DATE RECEIVED: 06/07/12  
 PREP. BATCH: HGF016S HGF016S  
 CALIB. REF: M47F009044 M47F009044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F051  
 =====

Matrix : WATER  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLF002WB	ND	1	NA	0.200	0.100	06/14/1218:24	NA	NF14033	NF14025	PLF002W	NA	NA
LCS1W	PLF002WL	1.03	1	NA	0.200	0.100	06/14/1218:38	NA	NF14034	NF14025	PLF002W	NA	NA
LCD1W	PLF002WC	1.09	1	NA	0.200	0.100	06/14/1218:52	NA	NF14035	NF14025	PLF002W	NA	NA
EB1-060712	F051-01	ND	1	NA	0.200	0.100	06/14/1220:03	NA	NF14040	NF14036	PLF002W	06/07/1215:00	06/07/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLF002WB PLF002WL PLF002WC  
LAB FILE ID: NF14033 NF14034 NF14035  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1218:24 06/14/1218:38 06/14/1218:52 DATE RECEIVED: NA  
PREP. BATCH: PLF002W PLF002W PLF002W  
CALIB. REF: NF14025 NF14025 NF14025

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	1.03	103	1.00	1.09	109	6	85-115	20

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F051  
 =====

Matrix : SOIL  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLF002SB	ND	1	NA	5.00	2.50	06/14/1211:08	06/13/1214:23	NF14004	NF14003	PLF002S	NA	06/13/12
LCS1S	PLF002SL	27.1	1	NA	5.00	2.50	06/14/1211:23	06/13/1214:23	NF14005	NF14003	PLF002S	NA	06/13/12
LCD1S	PLF002SC	24.8	1	NA	5.00	2.50	06/14/1211:37	06/13/1214:23	NF14006	NF14003	PLF002S	NA	06/13/12
SL-571-SA5C-SB-4.0-5.0	F051-24	ND	1	10.6	5.59	2.80	06/14/1212:35	06/13/1214:23	NF14010	NF14003	PLF002S	06/07/1214:02	06/07/12
SL-571-SA5C-SB-9.0-10.0	F051-26	ND	1	10.8	5.61	2.80	06/14/1212:49	06/13/1214:23	NF14011	NF14003	PLF002S	06/07/1214:10	06/07/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLF002SB PLF002SL PLF002SC  
LAB FILE ID: NF14004 NF14005 NF14006  
DATE EXTRACTED: 06/13/1214:23 06/13/1214:23 06/13/1214:23 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1211:08 06/14/1211:23 06/14/1211:37 DATE RECEIVED: 06/13/12  
PREP. BATCH: PLF002S PLF002S PLF002S  
CALIB. REF: NF14003 NF14003 NF14003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	27.1	108	25.0	24.8	99	9	85-115	20

METHOD 7199  
HEXAVALENT CHROMIUM

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F051

Matrix : WATER  
Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCF013WB	ND	1	NA	0.200	0.100	06/08/1210:42	NA	IF10003	IF10001	HCF013W	NA	NA
MBLK1W	HCF013WQ	ND	1	NA	0.200	0.100	06/08/1210:52	NA	IF10004	IF10001	HCF013W	NA	NA
EB1-060712	F051-01	ND	1	NA	0.200	0.100	06/08/1211:02	NA	IF10005	IF10001	HCF013W	06/07/1215:00	06/07/12
EB1-060712	F051-01R	ND	1	NA	0.200	0.100	06/08/1211:13	NA	IF10006	IF10001	HCF013W	06/07/1215:00	06/07/12
LCS1W	HCF013WL	2.16	1	NA	0.200	0.100	06/08/1211:44	NA	IF10009	IF10001	HCF013W	NA	NA
LCS1W	HCF013WX	2.15	1	NA	0.200	0.100	06/08/1211:54	NA	IF10010	IF10001	HCF013W	NA	NA
LCD1W	HCF013WC	2.17	1	NA	0.200	0.100	06/08/1212:05	NA	IF10011	IF10001	HCF013W	NA	NA
LCD1W	HCF013WY	2.12	1	NA	0.200	0.100	06/08/1212:15	NA	IF10012	IF10001	HCF013W	NA	NA

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCF013WB HCF013WL HCF013WC  
LAB FILE ID: IF10003 IF10009 IF10011  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/08/1210:42 06/08/1211:44 06/08/1212:05 DATE RECEIVED: NA  
PREP. BATCH: HCF013W HCF013W HCF013W  
CALIB. REF: IF10001 IF10001 IF10001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	2.16	108	2.00	2.17	108	0	80-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCF013WQ HCF013WX HCF013WY  
LAB FILE ID: IF10004 IF10010 IF10012  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/08/1210:52 06/08/1211:54 06/08/1212:15 DATE RECEIVED: NA  
PREP. BATCH: HCF013W HCF013W HCF013W  
CALIB. REF: IF10001 IF10001 IF10001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	2.15	108	2.00	2.12	106	1	80-120	20

METHOD 7199  
 HEXAVALENT CHROMIUM

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F051

Matrix : SOIL  
 Instrument ID : I59

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF MOIST		RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCF005SB	ND	1	NA	1.00	0.500	06/14/1215:56	06/11/1216:46	IF14003	IF14001	HCF005S	NA	06/11/12
MBLK1S	HCF005SQ	ND	1	NA	1.00	0.500	06/14/1216:07	06/11/1216:46	IF14004	IF14001	HCF005S	NA	06/11/12
LCS1S	CSF005SL	8.73	1	NA	1.00	0.500	06/14/1216:46	06/11/1216:46	IF14005	IF14001	HCF005S	NA	06/11/12
LCS1S	CSF005SX	8.71	1	NA	1.00	0.500	06/14/1216:57	06/11/1216:46	IF14006	IF14001	HCF005S	NA	06/11/12
LCS2S	CIF005SL	204	10	NA	10.0	5.00	06/14/1217:07	06/11/1216:46	IF14007	IF14001	HCF005S	NA	06/11/12
LCS2S	CIF005SX	211	10	NA	10.0	5.00	06/14/1217:18	06/11/1216:46	IF14008	IF14001	HCF005S	NA	06/11/12
SL-547-SA5C-SB-4.0-5.0	F051-11	ND	1	9.6	1.11	0.553	06/14/1219:33	06/11/1216:46	IF14021	IF14013	HCF005S	06/07/1212:00	06/07/12
SL-547-SA5C-SB-4.0-5.0	F051-11R	ND	1	9.6	1.11	0.553	06/14/1219:43	06/11/1216:46	IF14022	IF14013	HCF005S	06/07/1212:00	06/07/12
SL-547-SA5C-SB-9.0-10.0	F051-13	ND	1	7.7	1.08	0.542	06/14/1219:54	06/11/1216:46	IF14023	IF14013	HCF005S	06/07/1211:44	06/07/12
SL-547-SA5C-SB-9.0-10.0	F051-13R	ND	1	7.7	1.08	0.542	06/14/1220:04	06/11/1216:46	IF14024	IF14013	HCF005S	06/07/1211:44	06/07/12
SL-548-SA5C-SB-4.0-5.0	F051-15	ND	1	13.2	1.15	0.576	06/14/1220:36	06/11/1216:46	IF14027	IF14025	HCF005S	06/07/1210:42	06/07/12
SL-548-SA5C-SB-4.0-5.0	F051-15R	ND	1	13.2	1.15	0.576	06/14/1220:46	06/11/1216:46	IF14028	IF14025	HCF005S	06/07/1210:42	06/07/12
SL-548-SA5C-SB-9.0-10.0	F051-23	ND	1	11.7	1.13	0.566	06/14/1220:56	06/11/1216:46	IF14029	IF14025	HCF005S	06/07/1210:53	06/07/12
SL-548-SA5C-SB-9.0-10.0	F051-23R	ND	1	11.7	1.13	0.566	06/14/1221:07	06/11/1216:46	IF14030	IF14025	HCF005S	06/07/1210:53	06/07/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF005SB CSF005SL  
LAB FILE ID: IF14003 IF14005  
DATE EXTRACTED: 06/11/1216:46 06/11/1216:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1215:56 06/14/1216:46 DATE RECEIVED: 06/11/12  
PREP. BATCH: HCF005S HCF005S  
CALIB. REF: IF14001 IF14001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.73	87	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF005SQ CSF005SX  
LAB FILE ID: IF14004 IF14006  
DATE EXTRACTED: 06/11/1216:46 06/11/1216:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1216:07 06/14/1216:57 DATE RECEIVED: 06/11/12  
PREP. BATCH: HCF005S HCF005S  
CALIB. REF: IF14001 IF14001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.71	87	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF005SB CIF005SL  
LAB FILE ID: IF14003 IF14007  
DATE EXTRACTED: 06/11/1216:46 06/11/1216:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1215:56 06/14/1217:07 DATE RECEIVED: 06/11/12  
PREP. BATCH: HCF005S HCF005S  
CALIB. REF: IF14001 IF14001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	232	204	88	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F051  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF005SQ CIF005SX  
LAB FILE ID: IF14004 IF14008  
DATE EXTRACTED: 06/11/1216:46 06/11/1216:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1216:07 06/14/1217:18 DATE RECEIVED: 06/11/12  
PREP. BATCH: HCF005S HCF005S  
CALIB. REF: IF14001 IF14001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
----- Hexavalent Chromium	ND	232	211	91	80-120

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F051  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB1-060712	F051-01	5.62	1 NA	NA	NA	06/07/1218:54	NA	12PHF011W01	PHF011W	PHF011W	06/07/1215:00	06/07/12
EB1-060712DUP	F051-01D	5.58	1 NA	NA	NA	06/07/1218:56	NA	12PHF011W02	PHF011W	PHF011W	06/07/1215:00	06/07/12
EB2-060712	F051-02	5.72	1 NA	NA	NA	06/07/1218:58	NA	12PHF011W03	PHF011W	PHF011W	06/07/1214:30	06/07/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.: 12F051                      DATE RECEIVED: 06/07/12  
SAMPLE ID: EB1-060712DUP              DATE EXTRACTED: NA  
CONTROL NO.: F051-01D                  DATE ANALYZED: 06/07/1218:56

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	5.62	5.58	0.04	+/-0.10

METHOD 9045D  
PH

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F051

Matrix : SOIL  
Instrument ID : 53

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	(pH Unit)	RL (pH Unit)	MDL	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-537-SA5C-SB-0.0-0.5	F051-06	7.16	1	NA	NA	NA	NA	06/08/1218:54	06/08/1217:45	12PHF012S01	PHF012S	PHF012S	06/07/1209:20	06/07/12
SL-537-SA5C-SB-4.0-5.0	F051-07	8.68	1	NA	NA	NA	NA	06/08/1218:57	06/08/1217:45	12PHF012S02	PHF012S	PHF012S	06/07/1209:45	06/07/12
SL-537-SA5C-SB-9.0-10.0	F051-09	8.56	1	NA	NA	NA	NA	06/08/1218:58	06/08/1217:45	12PHF012S03	PHF012S	PHF012S	06/07/1210:10	06/07/12
SL-547-SA5C-SB-4.0-5.0	F051-11	8.59	1	NA	NA	NA	NA	06/08/1218:59	06/08/1217:45	12PHF012S04	PHF012S	PHF012S	06/07/1212:00	06/07/12
SL-547-SA5C-SB-9.0-10.0	F051-13	8.72	1	NA	NA	NA	NA	06/08/1219:01	06/08/1217:45	12PHF012S05	PHF012S	PHF012S	06/07/1211:44	06/07/12
SL-547-SA5C-SB-9.0-10.0DUP	F051-13D	8.78	1	NA	NA	NA	NA	06/08/1219:07	06/08/1217:45	12PHF012S06	PHF012S	PHF012S	06/07/1211:44	06/07/12
SL-548-SA5C-SB-4.0-5.0	F051-15	8.50	1	NA	NA	NA	NA	06/08/1219:09	06/08/1217:45	12PHF012S07	PHF012S	PHF012S	06/07/1210:42	06/07/12
SL-559-SA5C-SB-0.0-0.5	F051-18	7.63	1	NA	NA	NA	NA	06/08/1219:11	06/08/1217:45	12PHF012S08	PHF012S	PHF012S	06/07/1208:35	06/07/12
SL-559-SA5C-SB-2.0-3.0	F051-19	7.84	1	NA	NA	NA	NA	06/08/1219:14	06/08/1217:45	12PHF012S09	PHF012S	PHF012S	06/07/1208:40	06/07/12
SL-559-SA5C-SB-7.0-8.0	F051-21	9.10	1	NA	NA	NA	NA	06/08/1219:16	06/08/1217:45	12PHF012S10	PHF012S	PHF012S	06/07/1208:45	06/07/12
SL-548-SA5C-SB-9.0-10.0	F051-23	8.55	1	NA	NA	NA	NA	06/08/1219:19	06/08/1217:45	12PHF012S11	PHF012S	PHF012S	06/07/1210:53	06/07/12
SL-571-SA5C-SB-4.0-5.0	F051-24	8.70	1	NA	NA	NA	NA	06/08/1219:21	06/08/1217:45	12PHF012S12	PHF012S	PHF012S	06/07/1214:02	06/07/12
SL-571-SA5C-SB-9.0-10.0	F051-26	8.74	1	NA	NA	NA	NA	06/08/1219:23	06/08/1217:45	12PHF012S13	PHF012S	PHF012S	06/07/1214:10	06/07/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 METHOD: METHOD 9045D  
 MATRIX: SOIL  
 % MOISTURE: NA

```
=====
BATCH NO.: 12F051          DATE RECEIVED: 06/07/12
SAMPLE ID: SL-547-SA5C-SB-9.0-10.0DUP DATE EXTRACTED: 06/08/1217:45
CONTROL NO.: F051-13D     DATE ANALYZED: 06/08/1219:07
```

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.72	8.78	-0.06	+/-0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID:   SL-518-SA5C-SB-4.0-5.0           Date Analyzed: 06/23/12 00:55
Lab Samp ID: F071-01                           Dilution Factor: 2
Lab File ID: RFL317                            Matrix          : SOIL
Ext Btch ID: SVF037S                          % Moisture     : 10.6
Calib. Ref.: REL181                            Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.6
ACENAPHTHYLENE	ND	22	5.6
ANTHRACENE	ND	22	5.6
BENZO (A) ANTHRACENE	21J	22	5.6
BENZO (A) PYRENE	32	22	5.6
BENZO (B) FLUORANTHENE	50	22	5.6
BENZO (K) FLUORANTHENE	16J	22	5.6
BENZO (G, H, I) PERYLENE	8.8J	22	5.6
CHRYSENE	19J	22	5.6
DIBENZO (A, H) ANTHRACENE	ND	22	5.6
FLUORANTHENE	32	22	5.6
FLUORENE	ND	22	5.6
INDENO (1, 2, 3-CD) PYRENE	9.6J	22	5.6
NAPHTHALENE	ND	22	5.6
PHENANTHRENE	ND	22	5.6
2-METHYLNAPHTHALENE	ND	22	5.6
1-METHYLNAPHTHALENE	ND	22	5.6
N-NITROSODIMETHYLAMINE	ND	22	5.6
PYRENE	27	22	5.6
AZOBENZENE	ND	11	5.6
BENZO (E) PYRENE	30	11	5.6
BIPHENYL	ND	11	5.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	234	372.8	62.7	40-130
2-FLUOROBIPHENYL	235	372.8	63.0	45-130
TERPHENYL-D14	308	372.8	82.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/25/12 17:01
Sample ID    : SL-518-SA5C-SB-9.0-10.0         Date Analyzed: 06/30/12 13:43
Lab Samp ID  : F071-02R                         Dilution Factor: 1
Lab File ID  : RFH220                           Matrix          : SOIL
Ext Btch ID  : SVF051S                          % Moisture     : 8.2
Calib. Ref.  : RFH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	151	363.1	41.5	40-130
2-FLUOROBIPHENYL	164	363.1	45.2	45-130
TERPHENYL-D14	292	363.1	80.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID:   SL-509-SA5C-SB-9.0-10.0          Date Analyzed: 06/22/12 20:37
Lab Samp ID: F071-03                           Dilution Factor: 1
Lab File ID: RFL307                            Matrix          : SOIL
Ext Btch ID: SVF037S                           % Moisture     : 8.1
Calib. Ref.: REL181                            Instrument ID   : T-OE9
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	211	362.7	58.3	40-130
2-FLUOROBIPHENYL	202	362.7	55.8	45-130
TERPHENYL-D14	288	362.7	79.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID    : SL-509-SA5C-SB-4.0-5.0          Date Analyzed: 06/22/12 21:03
Lab Samp ID  : F071-04                           Dilution Factor: 1
Lab File ID  : RFL308                             Matrix          : SOIL
Ext Btch ID  : SVF037S                            % Moisture     : 7.9
Calib. Ref.  : REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	3.3J	11	2.7
BENZO (A) PYRENE	3.3J	11	2.7
BENZO (B) FLUORANTHENE	5.7J	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	5.7J	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	5.1J	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	3.0J	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	215	361.9	59.5	40-130
2-FLUOROBIPHENYL	200	361.9	55.3	45-130
TERPHENYL-D14	287	361.9	79.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID:   SL-809-SA5C-SB-4.0-5.0            Date Analyzed: 06/22/12 21:29
Lab Samp ID: F071-05                           Dilution Factor: 1
Lab File ID: RFL309                             Matrix          : SOIL
Ext Btch ID: SVF037S                           % Moisture     : 8.8
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	181	365.5	49.4	40-130
2-FLUOROBIPHENYL	185	365.5	50.5	45-130
TERPHENYL-D14	317	365.5	86.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID:   SL-574-SA5C-SB-9.0-10.0           Date Analyzed: 06/23/12 00:30
Lab Samp ID: F071-06                             Dilution Factor: 1
Lab File ID: RFL316                              Matrix          : SOIL
Ext Btch ID: SVF037S                             % Moisture     : 12.6
Calib. Ref.: REL181                              Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	3.0J	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	3.8J	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	234	381.4	61.4	40-130
2-FLUOROBIPHENYL	227	381.4	59.4	45-130
TERPHENYL-D14	294	381.4	77.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID:   SL-574-SA5C-SB-4.0-5.0           Date Analyzed: 06/22/12 21:55
Lab Samp ID: F071-07                           Dilution Factor: 1
Lab File ID: RFL310                            Matrix          : SOIL
Ext Btch ID: SVF037S                          % Moisture     : 9.5
Calib. Ref.: REL181                            Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
ACENAPHTHENE	ND	11	2.8	
ACENAPHTHYLENE	ND	11	2.8	
ANTHRACENE	ND	11	2.8	
BENZO (A) ANTHRACENE	ND	11	2.8	
BENZO (A) PYRENE	ND	11	2.8	
BENZO (B) FLUORANTHENE	ND	11	2.8	
BENZO (K) FLUORANTHENE	ND	11	2.8	
BENZO (G, H, I) PERYLENE	ND	11	2.8	
CHRYSENE	ND	11	2.8	
DIBENZO (A, H) ANTHRACENE	ND	11	2.8	
FLUORANTHENE	ND	11	2.8	
FLUORENE	ND	11	2.8	
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8	
NAPHTHALENE	ND	11	2.8	
PHENANTHRENE	ND	11	2.8	
2-METHYLNAPHTHALENE	ND	11	2.8	
1-METHYLNAPHTHALENE	ND	11	2.8	
N-NITROSODIMETHYLAMINE	ND	11	2.8	
PYRENE	ND	11	2.8	
AZOBENZENE	ND	5.5	2.8	
BENZO (E) PYRENE	ND	5.5	2.8	
BIPHENYL	ND	5.5	2.8	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	196	368.3	53.3	40-130
2-FLUOROBIPHENYL	188	368.3	51.0	45-130
TERPHENYL-D14	285	368.3	77.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID    : SL-508-SA5C-SB-4.0-5.0          Date Analyzed: 06/22/12 22:21
Lab Samp ID  : F071-08                           Dilution Factor: 1
Lab File ID  : RFL311                            Matrix          : SOIL
Ext Btch ID  : SVF037S                           % Moisture      : 9.2
Calib. Ref.  : REL181                            Instrument ID    : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	197	367.1	53.6	40-130
2-FLUOROBIPHENYL	187	367.1	51.0	45-130
TERPHENYL-D14	289	367.1	78.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID:   SL-508-SA5C-SB-6.5-7.5            Date Analyzed: 06/22/12 23:13
Lab Samp ID: F071-09                            Dilution Factor: 1
Lab File ID: RFL313                             Matrix          : SOIL
Ext Btch ID: SVF037S                            % Moisture     : 6.5
Calib. Ref.: REL181                             Instrument ID  : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	ND	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	204	356.5	57.1	40-130
2-FLUOROBIPHENYL	184	356.5	51.5	45-130
TERPHENYL-D14	257	356.5	72.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID:   SL-507-SA5C-SB-2.5-3.5            Date Analyzed: 06/22/12 23:39
Lab Samp ID: F071-10                           Dilution Factor: 1
Lab File ID: RFL314                            Matrix          : SOIL
Ext Btch ID: SVF037S                           % Moisture     : 8.2
Calib. Ref.: REL181                            Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	164	363.1	45.2	40-130
2-FLUOROBIPHENYL	169	363.1	46.6	45-130
TERPHENYL-D14	280	363.1	77.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID    : SL-520-SA5C-SB-6.5-7.5          Date Analyzed: 06/23/12 01:21
Lab Samp ID  : F071-11                          Dilution Factor: 2
Lab File ID  : RFL318                           Matrix          : SOIL
Ext Btch ID  : SVF037S                          % Moisture     : 6.2
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.3
ACENAPHTHYLENE	ND	21	5.3
ANTHRACENE	ND	21	5.3
BENZO (A) ANTHRACENE	ND	21	5.3
BENZO (A) PYRENE	ND	21	5.3
BENZO (B) FLUORANTHENE	ND	21	5.3
BENZO (K) FLUORANTHENE	6.1J	21	5.3
BENZO (G, H, I) PERYLENE	ND	21	5.3
CHRYSENE	ND	21	5.3
DIBENZO (A, H) ANTHRACENE	ND	21	5.3
FLUORANTHENE	ND	21	5.3
FLUORENE	ND	21	5.3
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.3
NAPHTHALENE	ND	21	5.3
PHENANTHRENE	ND	21	5.3
2-METHYLNAPHTHALENE	ND	21	5.3
1-METHYLNAPHTHALENE	ND	21	5.3
N-NITROSODIMETHYLAMINE	ND	21	5.3
PYRENE	ND	21	5.3
AZOBENZENE	ND	11	5.3
BENZO (E) PYRENE	8.3J	11	5.3
BIPHENYL	ND	11	5.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	216	355.3	60.7	40-130
2-FLUOROBIPHENYL	239	355.3	67.2	45-130
TERPHENYL-D14	279	355.3	78.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID:   SL-521-SA5C-SB-0.0-0.5            Date Analyzed: 06/26/12 03:12
Lab Samp ID: F071-12W                           Dilution Factor: 3
Lab File ID: RFL348                             Matrix          : SOIL
Ext Btch ID: SVF037S                            % Moisture     : 12.2
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	34	8.5
ACENAPHTHYLENE	ND	34	8.5
ANTHRACENE	ND	34	8.5
BENZO (A) ANTHRACENE	ND	34	8.5
BENZO (A) PYRENE	ND	34	8.5
BENZO (B) FLUORANTHENE	ND	34	8.5
BENZO (K) FLUORANTHENE	10J	34	8.5
BENZO (G, H, I) PERYLENE	ND	34	8.5
CHRYSENE	ND	34	8.5
DIBENZO (A, H) ANTHRACENE	ND	34	8.5
FLUORANTHENE	ND	34	8.5
FLUORENE	ND	34	8.5
INDENO (1, 2, 3-CD) PYRENE	ND	34	8.5
NAPHTHALENE	ND	34	8.5
PHENANTHRENE	ND	34	8.5
2-METHYLNAPHTHALENE	ND	34	8.5
1-METHYLNAPHTHALENE	ND	34	8.5
N-NITROSODIMETHYLAMINE	ND	34	8.5
PYRENE	ND	34	8.5
AZOBENZENE	ND	17	8.5
BENZO (E) PYRENE	11J	17	8.5
BIPHENYL	ND	17	8.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	234	379.6	61.6	40-130
2-FLUOROBIPHENYL	186	379.6	49.0	45-130
TERPHENYL-D14	269	379.6	70.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID    : SL-521-SA5C-SB-4.0-5.0          Date Analyzed: 06/23/12 00:04
Lab Samp ID  : F071-13                          Dilution Factor: 1
Lab File ID  : RFL315                           Matrix          : SOIL
Ext Btch ID  : SVF037S                          % Moisture     : 11.6
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	195	377.0	51.7	40-130
2-FLUOROBIPHENYL	187	377.0	49.6	45-130
TERPHENYL-D14	315	377.0	83.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/19/12 12:13
Sample ID    : SL-521-SA5C-SB-9.0-10.0         Date Analyzed: 06/23/12 01:46
Lab Samp ID  : F071-14                          Dilution Factor: 2
Lab File ID  : RFL319                           Matrix          : SOIL
Ext Btch ID  : SVF037S                          % Moisture     : 11.9
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	23	5.7
ACENAPHTHYLENE	ND	23	5.7
ANTHRACENE	ND	23	5.7
BENZO (A) ANTHRACENE	ND	23	5.7
BENZO (A) PYRENE	ND	23	5.7
BENZO (B) FLUORANTHENE	ND	23	5.7
BENZO (K) FLUORANTHENE	ND	23	5.7
BENZO (G, H, I) PERYLENE	ND	23	5.7
CHRYSENE	ND	23	5.7
DIBENZO (A, H) ANTHRACENE	ND	23	5.7
FLUORANTHENE	ND	23	5.7
FLUORENE	ND	23	5.7
INDENO (1, 2, 3-CD) PYRENE	ND	23	5.7
NAPHTHALENE	ND	23	5.7
PHENANTHRENE	ND	23	5.7
2-METHYLNAPHTHALENE	ND	23	5.7
1-METHYLNAPHTHALENE	ND	23	5.7
N-NITROSODIMETHYLAMINE	ND	23	5.7
PYRENE	ND	23	5.7
AZOBENZENE	ND	11	5.7
BENZO (E) PYRENE	ND	11	5.7
BIPHENYL	ND	11	5.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	252	378.3	66.7	40-130
2-FLUOROBIPHENYL	246	378.3	65.1	45-130
TERPHENYL-D14	311	378.3	82.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F071                          Date Extracted: 06/19/12 12:13
Sample ID    : MBLK1S                          Date Analyzed: 06/22/12 20:12
Lab Samp ID  : SVF037SB                       Dilution Factor: 1
Lab File ID  : RFL306                         Matrix          : SOIL
Ext Btch ID  : SVF037S                       % Moisture     : NA
Calib. Ref.  : REL181                        Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	284	333.3	85.2	40-130
2-FLUOROBIPHENYL	251	333.3	75.3	45-130
TERPHENYL-D14	301	333.3	90.2	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F071  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF037SB SVF037SL SVF037SC  
LAB FILE ID: RFL306 RFL302 RFL303  
DATE EXTRACTED: 06/19/1212:13 06/19/1212:13 06/19/1212:13 DATE COLLECTED: NA  
DATE ANALYZED: 06/22/1220:12 06/22/1218:34 06/22/1218:53 DATE RECEIVED: 06/19/12  
PREP. BATCH: SVF037S SVF037S SVF037S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	304	91	333	302	90	1	10-130	50
Acenaphthylene	ND	333	308	92	333	306	92	1	20-130	50
Anthracene	ND	333	301	90	333	260	78	15	20-130	50
Benzo (a) anthracene	ND	333	320	96	333	254	76	23	30-130	50
Benzo (a) pyrene	ND	333	363	109	333	328	98	10	30-130	50
Benzo (b) fluoranthene	ND	333	403	121	333	342	103	17	40-130	50
Benzo (k) fluoranthene	ND	333	379	114	333	303	91	22	30-140	50
Benzo (g, h, i) perylene	ND	333	366	110	333	307	92	17	30-140	50
Chrysene	ND	333	332	100	333	264	79	23	30-140	50
Dibenzo (a, h) anthracene	ND	333	390	117	333	338	101	14	40-140	50
Fluoranthene	ND	333	392	117	333	316	95	21	30-130	50
Fluorene	ND	333	295	88	333	286	86	3	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	379	114	333	329	99	14	20-160	50
Naphthalene	ND	333	297	89	333	301	90	1	10-130	50
Phenanthrene	ND	333	315	94	333	277	83	13	20-130	50
2-Methylnaphthalene	ND	333	283	85	333	291	87	3	30-150	50
1-Methylnaphthalene	ND	333	282	85	333	293	88	4	30-150	50
N-Nitrosodimethylamine	ND	333	349	105	333	374	112	7	30-150	50
Pyrene	ND	333	391	117	333	312	94	22	20-150	50
Azobenzene	ND	333	247	74	333	210	63	16	30-150	50
Benzo (e) pyrene	ND	333	348	104	333	305	91	13	30-150	50
Biphenyl	ND	333	250	75	333	241	72	4	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	284	85	333	295	89	40-130
2-Fluorobiphenyl	333	252	76	333	275	82	45-130
Terphenyl-d14	333	318	95	333	277	83	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
Batch No.    : 12F071                           Date Extracted: 06/25/12 17:01
Sample ID    : MBLK2S                           Date Analyzed: 06/30/12 12:08
Lab Samp ID  : SVF051SB                         Dilution Factor: 1
Lab File ID  : RFH215                           Matrix          : SOIL
Ext Btch ID  : SVF051S                           % Moisture     : NA
Calib. Ref.  : RFH072                           Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	226	333.3	67.8	40-130
2-FLUOROBIPHENYL	219	333.3	65.7	45-130
TERPHENYL-D14	303	333.3	90.9	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F071  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2S  
LAB SAMP ID: SVF051SB SVF051SL SVF051SC  
LAB FILE ID: RFH215 RFH216 RFH217  
DATE EXTRACTED: 06/25/1217:01 06/25/1217:01 06/25/1217:01 DATE COLLECTED: NA  
DATE ANALYZED: 06/30/1212:08 06/30/1212:27 06/30/1212:46 DATE RECEIVED: 06/25/12  
PREP. BATCH: SVF051S SVF051S SVF051S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	266	80	333	245	74	8	10-130	50
Acenaphthylene	ND	333	282	85	333	260	78	8	20-130	50
Anthracene	ND	333	263	79	333	240	72	9	20-130	50
Benzo (a) anthracene	ND	333	292	88	333	261	78	11	30-130	50
Benzo (a) pyrene	ND	333	304	91	333	269	81	12	30-130	50
Benzo (b) fluoranthene	ND	333	323	97	333	287	86	12	40-130	50
Benzo (k) fluoranthene	ND	333	310	93	333	274	82	12	30-140	50
Benzo (g, h, i) perylene	ND	333	323	97	333	285	86	12	30-140	50
Chrysene	ND	333	285	86	333	253	76	12	30-140	50
Dibenzo (a, h) anthracene	ND	333	333	100	333	294	88	12	40-140	50
Fluoranthene	ND	333	306	92	333	273	82	11	30-130	50
Fluorene	ND	333	289	87	333	267	80	8	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	332	100	333	294	88	12	20-160	50
Naphthalene	ND	333	241	72	333	223	67	8	10-130	50
Phenanthrene	ND	333	270	81	333	245	74	10	20-130	50
2-Methylnaphthalene	ND	333	259	78	333	238	71	8	30-150	50
1-Methylnaphthalene	ND	333	261	78	333	239	72	9	30-150	50
N-Nitrosodimethylamine	ND	333	227	68	333	209	63	8	30-150	50
Pyrene	ND	333	296	89	333	264	79	11	20-150	50
Azobenzene	ND	333	242	73	333	223	67	8	30-150	50
Benzo (e) pyrene	ND	333	271	81	333	269	81	1	30-150	50
Biphenyl	ND	333	202	60	333	209	63	4	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	218	65	333	226	68	40-130
2-Fluorobiphenyl	333	216	65	333	221	66	45-130
Terphenyl-d14	333	283	85	333	280	84	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F071  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 7.9  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-509-SA5C-SB-4.0-5.0  
LAB SAMP ID: F071-04 F071-04M F071-04S  
LAB FILE ID: RFL308 RFL304 RFL305  
DATE EXTRACTED: 06/19/1212:13 06/19/1212:13 06/19/1212:13 DATE COLLECTED: 06/11/12  
DATE ANALYZED: 06/22/1221:03 06/22/1219:19 06/22/1219:45 DATE RECEIVED: 06/11/12  
PREP. BATCH: SVF037S SVF037S SVF037S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	362	226	62	362	254	70	12	10-130	50
Acenaphthylene	ND	362	245	68	362	270	75	10	20-130	50
Anthracene	ND	362	238	66	362	251	69	5	20-130	50
Benzo (a) anthracene	3.33J	362	253	69	362	318	87	23	30-130	50
Benzo (a) pyrene	3.32J	362	314	86	362	359	98	13	30-130	50
Benzo (b) fluoranthene	5.71J	362	342	93	362	392	107	14	30-130	50
Benzo (k) fluoranthene	ND	362	302	83	362	325	90	7	30-130	50
Benzo (g, h, i) perylene	ND	362	291	81	362	307	85	5	30-140	50
Chrysene	ND	362	258	71	362	326	90	23	20-130	50
Dibenzo (a, h) anthracene	ND	362	317	88	362	342	95	8	30-130	50
Fluoranthene	5.71J	362	325	88	362	401	109	21	30-150	50
Fluorene	ND	362	219	61	362	253	70	14	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	362	312	86	362	342	95	9	20-160	50
Naphthalene	ND	362	204	56	362	251	69	20	10-130	50
Phenanthrene	ND	362	256	71	362	282	78	10	20-130	50
2-Methylnaphthalene	ND	362	200	55	362	229	63	14	30-150	50
1-Methylnaphthalene	ND	362	211	58	362	240	66	13	30-150	50
N-Nitrosodimethylamine	ND	362	300	83	362	342	94	13	20-150	50
Pyrene	5.13J	362	321	87	362	397	108	21	10-160	50
Azobenzene	ND	362	182	50	362	197	55	8	30-150	50
Benzo (e) pyrene	3.00J	362	325	89	362	323	88	1	30-150	50
Biphenyl	ND	362	192	53	362	178	49	8	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	362	231	64	362	224	62	40-130
2-Fluorobiphenyl	362	198	55	362	195	54	45-130
Terphenyl-d14	362	282	78	362	271	75	45-135

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/20/12 14:23
Sample ID    : SL-518-SA5C-SB-4.0-5.0          Date Analyzed: 06/21/12 17:50
Lab Samp ID  : F071-01                          Dilution Factor: 1
Lab File ID  : SF21016A                        Matrix          : SOIL
Ext Btch ID  : CPF022S                         % Moisture     : 10.6
Calib. Ref.  : SF21013A                       Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(10.59)   13.83	14.91	(71.0)   92.7	45-120
TETRACHLORO-M-XYLENE	(13.80)   14.48	14.91	(92.6)   97.1	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/20/12 14:23
Sample ID:   SL-518-SA5C-SB-9.0-10.0           Date Analyzed: 06/21/12 18:24
Lab Samp ID: F071-02                             Dilution Factor: 1
Lab File ID: SF21017A                           Matrix          : SOIL
Ext Btch ID: CPF022S                             % Moisture     : 8.2
Calib. Ref.: SF21013A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(12.67)   15.61	14.52	(87.3)   108	45-120
TETRACHLORO-M-XYLENE	(12.74)   13.22	14.52	(87.7)   91.0	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/20/12 14:23
Sample ID    : SL-509-SA5C-SB-9.0-10.0         Date Analyzed: 06/21/12 18:59
Lab Samp ID  : F071-03                           Dilution Factor: 1
Lab File ID  : SF21018A                         Matrix          : SOIL
Ext Btch ID  : CPF022S                          % Moisture     : 8.1
Calib. Ref.  : SF21013A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.87)   16.76	14.50	(95.6)   116	45-120
TETRACHLORO-M-XYLENE	(12.07)   14.20	14.50	(83.2)   97.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                       Date Received: 06/11/12
Batch No.    : 12F071                             Date Extracted: 06/20/12 14:23
Sample ID    : SL-509-SA5C-SB-4.0-5.0           Date Analyzed: 06/21/12 19:33
Lab Samp ID  : F071-04                           Dilution Factor: 1
Lab File ID  : SF21019A                          Matrix          : SOIL
Ext Btch ID  : CPF022S                            % Moisture     : 7.9
Calib. Ref.  : SF21013A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.45)   16.63	14.47	(92.9)   115	45-120
TETRACHLORO-M-XYLENE	(12.43)   14.39	14.47	(85.9)   99.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/20/12 14:23
Sample ID    : SL-809-SA5C-SB-4.0-5.0          Date Analyzed: 06/21/12 20:07
Lab Samp ID  : F071-05                           Dilution Factor: 1
Lab File ID  : SF21020A                          Matrix          : SOIL
Ext Btch ID  : CPF022S                            % Moisture     : 8.8
Calib. Ref.  : SF21013A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.69)   17.16	14.62	(93.7)   117	45-120
TETRACHLORO-M-XYLENE	(12.31)   13.47	14.62	(84.2)   92.1	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/11/12
Project    : SSFL PHASE 3                       Date Received: 06/11/12
Batch No.  : 12F071                             Date Extracted: 06/20/12 14:23
Sample ID  : SL-574-SA5C-SB-9.0-10.0           Date Analyzed: 06/21/12 20:41
Lab Samp ID: F071-06                           Dilution Factor: 1
Lab File ID: SF21021A                          Matrix          : SOIL
Ext Btch ID: CPF022S                            % Moisture     : 12.6
Calib. Ref.: SF21013A                          Instrument ID  : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(11.51)   14.94	15.25	(75.5)   97.9	45-120
TETRACHLORO-M-XYLENE	(13.08)   14.00	15.25	(85.8)   91.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/20/12 14:23
Sample ID    : SL-574-SA5C-SB-4.0-5.0          Date Analyzed: 06/21/12 21:16
Lab Samp ID  : F071-07                          Dilution Factor: 1
Lab File ID  : SF21022A                         Matrix          : SOIL
Ext Btch ID  : CPF022S                          % Moisture     : 9.5
Calib. Ref.  : SF21013A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.94)   16.15	14.73	(87.9)   110	45-120
TETRACHLORO-M-XYLENE	(12.16)   13.19	14.73	(82.6)   89.5	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/11/12
Project    : SSFL PHASE 3                       Date Received: 06/11/12
Batch No.  : 12F071                             Date Extracted: 06/20/12 14:23
Sample ID  : SL-508-SA5C-SB-4.0-5.0           Date Analyzed: 06/21/12 21:50
Lab Samp ID: F071-08                           Dilution Factor: 1
Lab File ID: SF21023A                          Matrix          : SOIL
Ext Btch ID: CPF022S                            % Moisture     : 9.2
Calib. Ref.: SF21013A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.34)   16.42	14.68	(90.9)   112	45-120
TETRACHLORO-M-XYLENE	(12.00)   14.17	14.68	(81.7)   96.5	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/20/12 14:23
Sample ID    : SL-508-SA5C-SB-6.5-7.5          Date Analyzed: 06/21/12 22:24
Lab Samp ID  : F071-09                          Dilution Factor: 1
Lab File ID  : SF21024A                         Matrix          : SOIL
Ext Btch ID  : CPF022S                          % Moisture     : 6.5
Calib. Ref.  : SF21013A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.60)   15.98	14.26	(88.3)   112	45-120
TETRACHLORO-M-XYLENE	(12.87)   13.36	14.26	(90.3)   93.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/20/12 14:23
Sample ID    : SL-507-SA5C-SB-2.5-3.5          Date Analyzed: 06/21/12 22:58
Lab Samp ID  : F071-10                          Dilution Factor: 1
Lab File ID  : SF21025A                         Matrix          : SOIL
Ext Btch ID  : CPF022S                          % Moisture     : 8.2
Calib. Ref.  : SF21013A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.47)   15.66	14.52	(85.9)   108	45-120
TETRACHLORO-M-XYLENE	(12.82)   14.63	14.52	(88.3)   101	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/20/12 14:23
Sample ID    : SL-520-SA5C-SB-6.5-7.5          Date Analyzed: 06/21/12 23:32
Lab Samp ID  : F071-11                          Dilution Factor: 1
Lab File ID  : SF21026A                        Matrix          : SOIL
Ext Btch ID  : CPF022S                          % Moisture     : 6.2
Calib. Ref.  : SF21013A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(9.145)   11.55	14.21	(64.4)   81.3	45-120
TETRACHLORO-M-XYLENE	(12.55)   14.74	14.21	(88.3)   104	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/11/12
Project     : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.   : 12F071                           Date Extracted: 06/20/12 14:23
Sample ID   : SL-521-SA5C-SB-0.0-0.5          Date Analyzed: 06/22/12 00:07
Lab Samp ID: F071-12                           Dilution Factor: 1
Lab File ID: SF21027A                          Matrix          : SOIL
Ext Btch ID: CPF022S                           % Moisture     : 12.2
Calib. Ref.: SF21013A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(9.032)   10.79	15.18	(59.5)   71.1	45-120
TETRACHLORO-M-XYLENE	(13.01)   15.04	15.18	(85.7)   99.1	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                       Date Received: 06/11/12
Batch No.    : 12F071                             Date Extracted: 06/20/12 14:23
Sample ID    : SL-521-SA5C-SB-4.0-5.0           Date Analyzed: 06/22/12 00:41
Lab Samp ID  : F071-13                           Dilution Factor: 1
Lab File ID  : SF21028A                          Matrix          : SOIL
Ext Btch ID  : CPF022S                            % Moisture     : 11.6
Calib. Ref.  : SF21013A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(11.51)   13.79	15.08	(76.3)   91.5	45-120
TETRACHLORO-M-XYLENE	(13.13)   15.15	15.08	(87.1)   100	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
Batch No.    : 12F071                           Date Extracted: 06/20/12 14:23
Sample ID    : SL-521-SA5C-SB-9.0-10.0         Date Analyzed: 06/22/12 01:15
Lab Samp ID  : F071-14                          Dilution Factor: 1
Lab File ID  : SF21029A                        Matrix          : SOIL
Ext Btch ID  : CPF022S                          % Moisture     : 11.9
Calib. Ref.  : SF21013A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(10.83)   13.72	15.13	(71.6)   90.6	45-120
TETRACHLORO-M-XYLENE	(13.58)   15.76	15.13	(89.8)   104	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/20/12
Batch No.  : 12F071                             Date Extracted: 06/20/12 14:23
Sample ID  : MBLK1S                             Date Analyzed: 06/21/12 13:06
Lab Samp ID: 60F022SB                          Dilution Factor: 1
Lab File ID: SF21007A                          Matrix          : SOIL
Ext Btch ID: CPF022S                            % Moisture     : NA
Calib. Ref.: SF21002A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(11.63)   14.82	13.33	(87.3)   111	45-120
TETRACHLORO-M-XYLENE	(12.28)   14.09	13.33	(92.1)   106	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F071  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F022SB 60F022SL 60F022SC  
LAB FILE ID: SF21007A SF21008A SF21009A  
DATE EXTRACTED: 06/20/1214:23 06/20/1214:23 06/20/1214:23 DATE COLLECTED: NA  
DATE ANALYZED: 06/21/1213:06 06/21/1213:40 06/21/1214:15 DATE RECEIVED: 06/20/12  
PREP. BATCH: CPF022S CPF022S CPF022S  
CALIB. REF: SF21002A SF21002A SF21002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(143)   179	(86)   107	167	(143)   182	(86)   109	(0)   2	50-130	50
Aroclor 1260	(ND)   ND	167	(160)   199	(96)   119	167	(157)   203	(94)   122	(2)   2	60-150	50
Aroclor 5460	(ND)   ND	83.3	(99.5)   102	(119)   122	83.3	(98.3)   98.5	(118)   118	(1)   3	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(13.28)   15.72	(99.6)   118	13.33	(13.94)   16.55	(105)   124*	45-120
Tetrachloro-m-xylene	13.33	(12.48)   14.02	(93.6)   105	13.33	(12.63)   14.18	(94.7)   106	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F071  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 7.9  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-509-SA5C-SB-4.0-5.0  
LAB SAMP ID: F071-04 F071-04M F071-04S  
LAB FILE ID: SF21019A SF21010A SF21011A  
DATE EXTRACTED: 06/20/1214:23 06/20/1214:23 06/20/1214:23 DATE COLLECTED: 06/11/12  
DATE ANALYZED: 06/21/1219:33 06/21/1214:49 06/21/1215:23 DATE RECEIVED: 06/11/12  
PREP. BATCH: CPF022S CPF022S CPF022S  
CALIB. REF: SF21013A SF21002A SF21002A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	181	(143)   186	(79)   103	181	(145)   195	(80)   108	(1)   5	20-160	50
Aroclor 1260	(ND)   ND	181	(163)   212	(90)   117	181	(165)   218	(91)   120	(1)   3	20-160	50
Aroclor 5460	(ND)   ND	90.5	(108)   107	(119)   118	90.5	(96.2)   110	(106)   122	(12)   3	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.47	(13.82)   16.99	(95.5)   117	14.47	(14.39)   17.49	(99.4)   121*	45-120
Tetrachloro-m-xylene	14.47	(12.72)   13.82	(87.9)   95.5	14.47	(12.52)   13.74	(86.5)   94.9	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/11/12
Project    : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID  : SL-518-SA5C-SB-4.0-5.0          Date Analyzed: 06/19/12 17:17
Lab Samp ID: F071-01                          Dilution Factor: 0.985
Lab File ID: 98F09026                        Matrix          : SOIL
Ext Btch ID: IMF029S                         % Moisture     : 10.6
Calib. Ref.: 98F09016                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18700	110	13.2
Antimony	0.173J	0.551	0.110
Arsenic	4.66	0.551	0.220
Barium	203	0.551	0.220
Beryllium	0.875	0.551	0.0551
Boron	3.64J	5.51	2.75
Cadmium	0.355J	0.551	0.0551
Calcium	60900	22.0	11.0
Chromium	25.4	0.551	0.220
Cobalt	6.83	0.551	0.0551
Copper	10.3	0.551	0.220
Iron	23700	110	11.0
Lead	7.08	0.551	0.110
Magnesium	5040	11.0	5.51
Manganese	234	0.551	0.275
Molybdenum	0.327J	0.551	0.0551
Nickel	15.0	0.551	0.220
Potassium	1970	110	33.1
Selenium	ND	0.551	0.220
Silver	0.0598J	0.551	0.0551
Sodium	708	110	55.1
Strontium	72.1	0.551	0.275
Thallium	0.243J	0.441	0.0551
Tin	ND	11.0	5.51
Titanium	786	1.10	0.551
Vanadium	46.7	0.551	0.0551
Zinc	47.5	5.51	1.65
Lithium	22.9	2.20	1.10
Phosphorus	121	13.2	6.61
Zirconium	3.66J	5.51	2.75

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/11/12
Project    : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID  : SL-518-SA5C-SB-9.0-10.0         Date Analyzed: 06/19/12 17:44
Lab Samp ID: F071-02                          Dilution Factor: 0.990
Lab File ID: 98F09030                        Matrix          : SOIL
Ext Btch ID: IMF029S                         % Moisture     : 8.2
Calib. Ref.: 98F09028                       Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17900	108	12.9
Antimony	0.239J	0.539	0.108
Arsenic	9.11	0.539	0.216
Barium	123	0.539	0.216
Beryllium	1.13	0.539	0.0539
Boron	ND	5.39	2.70
Cadmium	0.334J	0.539	0.0539
Calcium	11600	21.6	10.8
Chromium	29.6	0.539	0.216
Cobalt	8.47	0.539	0.0539
Copper	17.7	0.539	0.216
Iron	29700	108	10.8
Lead	9.77	0.539	0.108
Magnesium	7190	10.8	5.39
Manganese	356	0.539	0.270
Molybdenum	0.442J	0.539	0.0539
Nickel	22.2	0.539	0.216
Potassium	2190	108	32.4
Selenium	ND	0.539	0.216
Silver	0.196J	0.539	0.0539
Sodium	439	108	53.9
Strontium	35.7	0.539	0.270
Thallium	0.339J	0.431	0.0539
Tin	ND	10.8	5.39
Titanium	1060	1.08	0.539
Vanadium	42.7	0.539	0.0539
Zinc	71.0	5.39	1.62
Lithium	39.2	2.16	1.08
Phosphorus	444	12.9	6.47
Zirconium	3.28J	5.39	2.70

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/11/12
Project     : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID: SL-509-SA5C-SB-9.0-10.0           Date Analyzed: 06/19/12 17:48
Lab Samp ID: F071-03                          Dilution Factor: 0.952
Lab File ID: 98F09031                         Matrix          : SOIL
Ext Btch ID: IMF029S                           % Moisture     : 8.1
Calib. Ref.: 98F09028                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12900	104	12.4
Antimony	0.194J	0.518	0.104
Arsenic	6.64	0.518	0.207
Barium	66.1	0.518	0.207
Beryllium	0.637	0.518	0.0518
Boron	ND	5.18	2.59
Cadmium	0.188J	0.518	0.0518
Calcium	3090	20.7	10.4
Chromium	19.8	0.518	0.207
Cobalt	5.71	0.518	0.0518
Copper	10.8	0.518	0.207
Iron	21500	104	10.4
Lead	7.53	0.518	0.104
Magnesium	4520	10.4	5.18
Manganese	232	0.518	0.259
Molybdenum	0.254J	0.518	0.0518
Nickel	12.3	0.518	0.207
Potassium	2450	104	31.1
Selenium	ND	0.518	0.207
Silver	ND	0.518	0.0518
Sodium	162	104	51.8
Strontium	17.7	0.518	0.259
Thallium	0.270J	0.414	0.0518
Tin	ND	10.4	5.18
Titanium	940	1.04	0.518
Vanadium	36.8	0.518	0.0518
Zinc	50.9	5.18	1.55
Lithium	25.8	2.07	1.04
Phosphorus	305	12.4	6.22
Zirconium	ND	5.18	2.59

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/11/12
Project     : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID: SL-509-SA5C-SB-4.0-5.0             Date Analyzed: 06/19/12 17:08
Lab Samp ID: F071-04                           Dilution Factor: 0.957
Lab File ID: 98F09024                          Matrix          : SOIL
Ext Btch ID: IMF029S                            % Moisture     : 7.9
Calib. Ref.: 98F09016                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20100	104	12.5
Antimony	0.239J	0.520	0.104
Arsenic	5.59	0.520	0.208
Barium	137	0.520	0.208
Beryllium	0.820	0.520	0.0520
Boron	3.66J	5.20	2.60
Cadmium	0.374J	0.520	0.0520
Calcium	9190	20.8	10.4
Chromium	26.5	0.520	0.208
Cobalt	6.65	0.520	0.0520
Copper	10.3	0.520	0.208
Iron	23400	104	10.4
Lead	23.0	0.520	0.104
Magnesium	4680	10.4	5.20
Manganese	214	0.520	0.260
Molybdenum	0.509J	0.520	0.0520
Nickel	14.4	0.520	0.208
Potassium	2500	104	31.2
Selenium	ND	0.520	0.208
Silver	0.0620J	0.520	0.0520
Sodium	339	104	52.0
Strontium	29.9	0.520	0.260
Thallium	0.263J	0.416	0.0520
Tin	ND	10.4	5.20
Titanium	904	1.04	0.520
Vanadium	43.2	0.520	0.0520
Zinc	49.7	5.20	1.56
Lithium	19.8	2.08	1.04
Phosphorus	153	12.5	6.23
Zirconium	2.91J	5.20	2.60

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/11/12
Project    : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID  : SL-809-SA5C-SB-4.0-5.0          Date Analyzed: 06/19/12 17:53
Lab Samp ID: F071-05                           Dilution Factor: 1.00
Lab File ID: 98F09032                         Matrix          : SOIL
Ext Btch ID: IMF029S                          % Moisture     : 8.8
Calib. Ref.: 98F09028                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	21000	110	13.2
Antimony	0.190J	0.548	0.110
Arsenic	5.96	0.548	0.219
Barium	132	0.548	0.219
Beryllium	0.898	0.548	0.0548
Boron	3.35J	5.48	2.74
Cadmium	0.297J	0.548	0.0548
Calcium	20600	21.9	11.0
Chromium	24.4	0.548	0.219
Cobalt	6.62	0.548	0.0548
Copper	9.79	0.548	0.219
Iron	23800	110	11.0
Lead	8.27	0.548	0.110
Magnesium	5070	11.0	5.48
Manganese	204	0.548	0.274
Molybdenum	0.358J	0.548	0.0548
Nickel	13.2	0.548	0.219
Potassium	2280	110	32.9
Selenium	ND	0.548	0.219
Silver	0.0608J	0.548	0.0548
Sodium	386	110	54.8
Strontium	35.7	0.548	0.274
Thallium	0.265J	0.439	0.0548
Tin	ND	11.0	5.48
Titanium	880	1.10	0.548
Vanadium	45.3	0.548	0.0548
Zinc	46.0	5.48	1.64
Lithium	20.4	2.19	1.10
Phosphorus	115	13.2	6.58
Zirconium	3.28J	5.48	2.74

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.     : 12F071                            Date Extracted: 06/14/12 11:15
Sample ID   : SL-574-SA5C-SB-9.0-10.0         Date Analyzed: 06/19/12 17:57
Lab Samp ID : F071-06                           Dilution Factor: 0.985
Lab File ID : 98F09033                          Matrix          : SOIL
Ext Btch ID : IMF029S                           % Moisture     : 12.6
Calib. Ref. : 98F09028                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19600	113	13.5
Antimony	0.2666J	0.564	0.113
Arsenic	5.12	0.564	0.225
Barium	133	0.564	0.225
Beryllium	0.784	0.564	0.0564
Boron	3.85J	5.64	2.82
Cadmium	0.321J	0.564	0.0564
Calcium	4870	22.5	11.3
Chromium	25.8	0.564	0.225
Cobalt	6.18	0.564	0.0564
Copper	12.0	0.564	0.225
Iron	24800	113	11.3
Lead	7.96	0.564	0.113
Magnesium	5490	11.3	5.64
Manganese	192	0.564	0.282
Molybdenum	0.456J	0.564	0.0564
Nickel	14.1	0.564	0.225
Potassium	2700	113	33.8
Selenium	ND	0.564	0.225
Silver	0.0641J	0.564	0.0564
Sodium	410	113	56.4
Strontium	40.1	0.564	0.282
Thallium	0.270J	0.451	0.0564
Tin	ND	11.3	5.64
Titanium	903	1.13	0.564
Vanadium	47.0	0.564	0.0564
Zinc	55.1	5.64	1.69
Lithium	25.3	2.25	1.13
Phosphorus	260	13.5	6.76
Zirconium	3.55J	5.64	2.82

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/11/12
Project    : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID  : SL-574-SA5C-SB-4.0-5.0          Date Analyzed: 06/19/12 18:02
Lab Samp ID: F071-07                           Dilution Factor: 0.985
Lab File ID: 98F09034                          Matrix          : SOIL
Ext Btch ID: IMF029S                           % Moisture     : 9.5
Calib. Ref.: 98F09028                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	23700	109	13.1
Antimony	0.234J	0.544	0.109
Arsenic	5.58	0.544	0.218
Barium	130	0.544	0.218
Beryllium	0.946	0.544	0.0544
Boron	6.37	5.44	2.72
Cadmium	0.335J	0.544	0.0544
Calcium	6270	21.8	10.9
Chromium	29.0	0.544	0.218
Cobalt	7.59	0.544	0.0544
Copper	12.3	0.544	0.218
Iron	27500	109	10.9
Lead	8.66	0.544	0.109
Magnesium	6630	10.9	5.44
Manganese	295	0.544	0.272
Molybdenum	0.353J	0.544	0.0544
Nickel	17.7	0.544	0.218
Potassium	3190	109	32.7
Selenium	ND	0.544	0.218
Silver	0.0558J	0.544	0.0544
Sodium	608	109	54.4
Strontium	48.8	0.544	0.272
Thallium	0.311J	0.435	0.0544
Tin	ND	10.9	5.44
Titanium	851	1.09	0.544
Vanadium	53.4	0.544	0.0544
Zinc	56.5	5.44	1.63
Lithium	24.2	2.18	1.09
Phosphorus	187	13.1	6.53
Zirconium	3.86J	5.44	2.72

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/11/12
Project     : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID: SL-508-SA5C-SB-4.0-5.0           Date Analyzed: 06/19/12 18:06
Lab Samp ID: F071-08                         Dilution Factor: 0.971
Lab File ID: 98F09035                       Matrix          : SOIL
Ext Btch ID: IMF029S                        % Moisture     : 9.2
Calib. Ref.: 98F09028                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20200	107	12.8
Antimony	0.223J	0.535	0.107
Arsenic	5.58	0.535	0.214
Barium	134	0.535	0.214
Beryllium	0.865	0.535	0.0535
Boron	3.40J	5.35	2.67
Cadmium	0.315J	0.535	0.0535
Calcium	4750	21.4	10.7
Chromium	24.6	0.535	0.214
Cobalt	9.26	0.535	0.0535
Copper	11.4	0.535	0.214
Iron	25600	107	10.7
Lead	8.52	0.535	0.107
Magnesium	5420	10.7	5.35
Manganese	430	0.535	0.267
Molybdenum	0.368J	0.535	0.0535
Nickel	15.6	0.535	0.214
Potassium	2330	107	32.1
Selenium	ND	0.535	0.214
Silver	0.0627J	0.535	0.0535
Sodium	359	107	53.5
Strontium	32.9	0.535	0.267
Thallium	0.262J	0.428	0.0535
Tin	ND	10.7	5.35
Titanium	810	1.07	0.535
Vanadium	47.4	0.535	0.0535
Zinc	49.8	5.35	1.60
Lithium	23.2	2.14	1.07
Phosphorus	180	12.8	6.42
Zirconium	3.53J	5.35	2.67

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/11/12
Project     : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID: SL-508-SA5C-SB-6.5-7.5           Date Analyzed: 06/19/12 18:11
Lab Samp ID: F071-09                         Dilution Factor: 0.966
Lab File ID: 98F09036                       Matrix          : SOIL
Ext Btch ID: IMF029S                        % Moisture     : 6.5
Calib. Ref.: 98F09028                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13600	103	12.4
Antimony	0.185J	0.517	0.103
Arsenic	5.29	0.517	0.207
Barium	76.5	0.517	0.207
Beryllium	0.580	0.517	0.0517
Boron	ND	5.17	2.58
Cadmium	0.240J	0.517	0.0517
Calcium	4900	20.7	10.3
Chromium	25.5	0.517	0.207
Cobalt	6.09	0.517	0.0517
Copper	10.3	0.517	0.207
Iron	20800	103	10.3
Lead	6.04	0.517	0.103
Magnesium	4430	10.3	5.17
Manganese	233	0.517	0.258
Molybdenum	0.560	0.517	0.0517
Nickel	15.1	0.517	0.207
Potassium	2390	103	31.0
Selenium	ND	0.517	0.207
Silver	ND	0.517	0.0517
Sodium	168	103	51.7
Strontium	21.6	0.517	0.258
Thallium	0.227J	0.413	0.0517
Tin	ND	10.3	5.17
Titanium	883	1.03	0.517
Vanadium	39.3	0.517	0.0517
Zinc	48.3	5.17	1.55
Lithium	23.5	2.07	1.03
Phosphorus	308	12.4	6.20
Zirconium	ND	5.17	2.58

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/11/12
Project      : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.     : 12F071                            Date Extracted: 06/14/12 11:15
Sample ID   : SL-507-SA5C-SB-2.5-3.5           Date Analyzed: 06/19/12 18:16
Lab Samp ID : F071-10                           Dilution Factor: 0.990
Lab File ID : 98F09037                          Matrix          : SOIL
Ext Btch ID : IMF029S                            % Moisture     : 8.2
Calib. Ref. : 98F09028                          Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20900	108	12.9
Antimony	0.232J	0.539	0.108
Arsenic	6.21	0.539	0.216
Barium	152	0.539	0.216
Beryllium	0.891	0.539	0.0539
Boron	3.47J	5.39	2.70
Cadmium	0.365J	0.539	0.0539
Calcium	3870	21.6	10.8
Chromium	26.2	0.539	0.216
Cobalt	9.67	0.539	0.0539
Copper	11.5	0.539	0.216
Iron	26800	108	10.8
Lead	9.84	0.539	0.108
Magnesium	5380	10.8	5.39
Manganese	428	0.539	0.270
Molybdenum	0.427J	0.539	0.0539
Nickel	17.5	0.539	0.216
Potassium	2770	108	32.4
Selenium	ND	0.539	0.216
Silver	0.0573J	0.539	0.0539
Sodium	115	108	53.9
Strontium	30.3	0.539	0.270
Thallium	0.277J	0.431	0.0539
Tin	ND	10.8	5.39
Titanium	797	1.08	0.539
Vanadium	50.4	0.539	0.0539
Zinc	50.3	5.39	1.62
Lithium	21.5	2.16	1.08
Phosphorus	178	12.9	6.47
Zirconium	ND	5.39	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/11/12
Project    : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID  : SL-520-SA5C-SB-6.5-7.5         Date Analyzed: 06/19/12 18:20
Lab Samp ID: F071-11                          Dilution Factor: 0.966
Lab File ID: 98F09038                        Matrix          : SOIL
Ext Btch ID: IMF029S                         % Moisture     : 6.2
Calib. Ref.: 98F09028                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11500	103	12.4
Antimony	0.115J	0.515	0.103
Arsenic	4.37	0.515	0.206
Barium	71.6	0.515	0.206
Beryllium	0.559	0.515	0.0515
Boron	ND	5.15	2.57
Cadmium	0.205J	0.515	0.0515
Calcium	5130	20.6	10.3
Chromium	13.3	0.515	0.206
Cobalt	4.30	0.515	0.0515
Copper	6.89	0.515	0.206
Iron	18700	103	10.3
Lead	4.34	0.515	0.103
Magnesium	3690	10.3	5.15
Manganese	226	0.515	0.257
Molybdenum	0.230J	0.515	0.0515
Nickel	9.23	0.515	0.206
Potassium	2170	103	30.9
Selenium	ND	0.515	0.206
Silver	ND	0.515	0.0515
Sodium	237	103	51.5
Strontium	23.9	0.515	0.257
Thallium	0.197J	0.412	0.0515
Tin	ND	10.3	5.15
Titanium	963	1.03	0.515
Vanadium	30.3	0.515	0.0515
Zinc	43.7	5.15	1.54
Lithium	27.1	2.06	1.03
Phosphorus	249	12.4	6.18
Zirconium	ND	5.15	2.57

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/11/12
Project     : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID:  SL-521-SA5C-SB-0.0-0.5           Date Analyzed: 06/19/12 18:41
Lab Samp ID: F071-12                          Dilution Factor: 0.962
Lab File ID: 98F09042                         Matrix          : SOIL
Ext Btch ID: IMF029S                          % Moisture     : 12.2
Calib. Ref.: 98F09040                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16300	110	13.1
Antimony	0.177J	0.548	0.110
Arsenic	3.89	0.548	0.219
Barium	124	0.548	0.219
Beryllium	0.668	0.548	0.0548
Boron	ND	5.48	2.74
Cadmium	0.270J	0.548	0.0548
Calcium	2810	21.9	11.0
Chromium	19.9	0.548	0.219
Cobalt	7.06	0.548	0.0548
Copper	9.89	0.548	0.219
Iron	19200	110	11.0
Lead	7.00	0.548	0.110
Magnesium	3470	11.0	5.48
Manganese	350	0.548	0.274
Molybdenum	0.588	0.548	0.0548
Nickel	11.6	0.548	0.219
Potassium	2370	110	32.9
Selenium	ND	0.548	0.219
Silver	ND	0.548	0.0548
Sodium	106J	110	54.8
Strontium	27.2	0.548	0.274
Thallium	0.249J	0.438	0.0548
Tin	ND	11.0	5.48
Titanium	742	1.10	0.548
Vanadium	39.5	0.548	0.0548
Zinc	39.9	5.48	1.64
Lithium	13.1	2.19	1.10
Phosphorus	169	13.1	6.57
Zirconium	ND	5.48	2.74

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/11/12
Project    : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID  : SL-521-SA5C-SB-4.0-5.0          Date Analyzed: 06/19/12 18:46
Lab Samp ID: F071-13                          Dilution Factor: 0.971
Lab File ID: 98F09043                        Matrix          : SOIL
Ext Btch ID: IMF029S                         % Moisture     : 11.6
Calib. Ref.: 98F09040                       Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20900	110	13.2
Antimony	0.206J	0.549	0.110
Arsenic	5.48	0.549	0.220
Barium	145	0.549	0.220
Beryllium	0.885	0.549	0.0549
Boron	2.81J	5.49	2.75
Cadmium	0.219J	0.549	0.0549
Calcium	41800	22.0	11.0
Chromium	21.0	0.549	0.220
Cobalt	8.21	0.549	0.0549
Copper	8.12	0.549	0.220
Iron	21400	110	11.0
Lead	6.97	0.549	0.110
Magnesium	5340	11.0	5.49
Manganese	288	0.549	0.275
Molybdenum	0.275J	0.549	0.0549
Nickel	13.4	0.549	0.220
Potassium	1930	110	33.0
Selenium	ND	0.549	0.220
Silver	ND	0.549	0.0549
Sodium	143	110	54.9
Strontium	151	0.549	0.275
Thallium	0.225J	0.439	0.0549
Tin	ND	11.0	5.49
Titanium	870	1.10	0.549
Vanadium	43.0	0.549	0.0549
Zinc	42.3	5.49	1.65
Lithium	26.1	2.20	1.10
Phosphorus	106	13.2	6.59
Zirconium	3.00J	5.49	2.75

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/11/12
Project    : SSFL PHASE 3                     Date Received: 06/11/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID  : SL-521-SA5C-SB-9.0-10.0         Date Analyzed: 06/19/12 18:50
Lab Samp ID: F071-14                          Dilution Factor: 0.980
Lab File ID: 98F09044                         Matrix          : SOIL
Ext Btch ID: IMF029S                          % Moisture     : 11.9
Calib. Ref.: 98F09040                         Instrument ID   : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16100	111	13.3
Antimony	0.149J	0.556	0.111
Arsenic	4.66	0.556	0.222
Barium	93.5	0.556	0.222
Beryllium	0.699	0.556	0.0556
Boron	ND	5.56	2.78
Cadmium	0.339J	0.556	0.0556
Calcium	11700	22.2	11.1
Chromium	21.0	0.556	0.222
Cobalt	6.56	0.556	0.0556
Copper	10.0	0.556	0.222
Iron	22600	111	11.1
Lead	6.03	0.556	0.111
Magnesium	4890	11.1	5.56
Manganese	346	0.556	0.278
Molybdenum	0.321J	0.556	0.0556
Nickel	16.6	0.556	0.222
Potassium	2760	111	33.4
Selenium	ND	0.556	0.222
Silver	ND	0.556	0.0556
Sodium	206	111	55.6
Strontium	42.0	0.556	0.278
Thallium	0.245J	0.445	0.0556
Tin	ND	11.1	5.56
Titanium	909	1.11	0.556
Vanadium	37.3	0.556	0.0556
Zinc	47.8	5.56	1.67
Lithium	22.2	2.22	1.11
Phosphorus	258	13.3	6.67
Zirconium	3.32J	5.56	2.78

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/14/12
SDG NO.    : 12F071                           Date Extracted: 06/14/12 11:15
Sample ID   : MBLK1S                           Date Analyzed: 06/19/12 16:41
Lab Samp ID: IMF029SB                          Dilution Factor: 1
Lab File ID: 98F09018                          Matrix          : SOIL
Ext Btch ID: IMF029S                           % Moisture     : NA
Calib. Ref.: 98F09016                          Instrument ID   : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F071  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF029SB IMF029SL IMF029SC  
LAB FILE ID: 98F09018 98F09019 98F09020  
DATIME EXTRACTD: 06/14/1211:15 06/14/1211:15 06/14/1211:15 DATE COLLECTED: NA  
DATIME ANALYZD: 06/19/1216:41 06/19/1216:46 06/19/1216:50 DATE RECEIVED: 06/14/12  
PREP. BATCH: IMF029S IMF029S IMF029S  
CALIB. REF: 98F09016 98F09016 98F09016

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2470	99	2500	2470	99	0	80-120	20
Antimony	ND	25.0	25.2	101	25.0	25.0	100	1	80-120	20
Arsenic	ND	25.0	24.6	98	25.0	24.5	98	0	80-120	20
Barium	ND	25.0	25.3	101	25.0	25.2	101	1	80-120	20
Beryllium	ND	25.0	26.0	104	25.0	25.8	103	1	80-120	20
Boron	ND	25.0	26.2	105	25.0	26.1	104	1	80-120	20
Cadmium	ND	25.0	24.5	98	25.0	24.6	98	0	80-120	20
Calcium	ND	2500	2580	103	2500	2580	103	0	80-120	20
Chromium	ND	25.0	25.0	100	25.0	24.9	100	0	80-120	20
Cobalt	ND	25.0	25.2	101	25.0	25.1	100	0	80-120	20
Copper	ND	25.0	25.0	100	25.0	24.9	100	0	80-120	20
Iron	ND	2500	2630	105	2500	2590	104	1	80-120	20
Lead	ND	25.0	24.7	99	25.0	24.8	99	0	80-120	20
Magnesium	ND	2500	2470	99	2500	2450	98	1	80-120	20
Manganese	ND	25.0	25.4	102	25.0	25.3	101	0	80-120	20
Molybdenum	ND	25.0	24.6	98	25.0	24.4	98	1	80-120	20
Nickel	ND	25.0	24.9	100	25.0	24.9	99	0	80-120	20
Potassium	ND	2500	2570	103	2500	2560	102	0	80-120	20
Selenium	ND	25.0	24.3	97	25.0	24.2	97	0	80-120	20
Silver	ND	25.0	24.8	99	25.0	24.5	98	1	80-120	20
Sodium	ND	2500	2500	100	2500	2490	100	0	80-120	20
Strontium	ND	25.0	25.0	100	25.0	24.8	99	1	80-120	20
Thallium	ND	25.0	24.3	97	25.0	24.6	99	1	80-120	20
Tin	ND	25.0	27.2	109	25.0	26.9	108	1	80-120	20
Titanium	ND	25.0	25.1	101	25.0	25.0	100	1	80-120	20
Vanadium	ND	25.0	24.7	99	25.0	24.5	98	1	80-120	20
Zinc	ND	50.0	47.9	96	50.0	47.5	95	1	80-120	20
Lithium	ND	25.0	25.9	104	25.0	25.6	102	1	80-120	20
Phosphorus	ND	250	233	93	250	232	93	0	80-120	20
Zirconium	ND	25.0	25.9	104	25.0	25.6	103	1	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F071  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.9  
DILTN FACTR: 0.957 0.985 0.990  
SAMPLE ID: SL-509-SA5C-SB-4.0-5.0  
CONTROL NO.: F071-04 F071-04M F071-04S  
LAB FILE ID: 98F09024 98F09021 98F09022  
DATIME EXTRACTD: 06/14/1211:15 06/14/1211:15 06/14/1211:15 DATE COLLECTED: 06/11/12  
DATIME ANALYZD: 06/19/1217:08 06/19/1216:55 06/19/1216:59 DATE RECEIVED: 06/11/12  
PREP. BATCH: IMF029S IMF029S IMF029S  
CALIB. REF: 98F09016 98F09016 98F09016

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	20100	2670	22200	79	2690	22400	86	1	75-125	20
Antimony	0.239J	26.7	19.6	72*	26.9	18.2	67*	7	75-125	20
Arsenic	5.59	26.7	29.9	91	26.9	29.7	90	1	75-125	20
Barium	137	26.7	153	62*	26.9	149	44*	3	75-125	20
Beryllium	0.820	26.7	29.5	107	26.9	28.7	104	3	75-125	20
Boron	3.66J	26.7	29.2	96	26.9	28.6	93	2	75-125	20
Cadmium	0.374J	26.7	26.7	99	26.9	26.2	96	2	75-125	20
Calcium	9190	2670	12700	132*	2690	10300	40*	22*	75-125	20
Chromium	26.5	26.7	48.3	82	26.9	49.0	84	1	75-125	20
Cobalt	6.65	26.7	32.1	95	26.9	30.8	90	4	75-125	20
Copper	10.3	26.7	33.7	87	26.9	33.5	86	0	75-125	20
Iron	23400	2670	26100	100	2690	26500	115	2	75-125	20
Lead	23.0	26.7	56.3	125	26.9	46.0	85	20	75-125	20
Magnesium	4680	2670	7250	96	2690	7050	88	3	75-125	20
Manganese	214	26.7	251	138*	26.9	238	87	6	75-125	20
Molybdenum	0.509J	26.7	25.6	94	26.9	24.9	91	3	75-125	20
Nickel	14.4	26.7	36.5	83	26.9	37.1	85	2	75-125	20
Potassium	2500	2670	5290	105	2690	5030	94	5	75-125	20
Selenium	ND	26.7	25.0	94	26.9	24.7	92	1	75-125	20
Silver	0.0620J	26.7	26.1	97	26.9	25.6	95	2	75-125	20
Sodium	339	2670	2690	88	2690	2650	86	2	75-125	20
Strontium	29.9	26.7	57.9	105	26.9	54.6	92	6	75-125	20
Thallium	0.263J	26.7	25.9	96	26.9	25.8	95	1	75-125	20
Tin	ND	26.7	30.6	114	26.9	30.0	112	2	75-125	20
Titanium	904	26.7	919	55*	26.9	895	-34*	3	75-125	20
Vanadium	43.2	26.7	68.3	94	26.9	68.7	95	1	75-125	20
Zinc	49.7	53.5	102	98	53.7	96.6	87	5	75-125	20
Lithium	19.8	26.7	50.6	115	26.9	49.0	109	3	75-125	20
Phosphorus	153	267	404	94	269	353	74*	14	75-125	20
Zirconium	2.91J	26.7	25.6	85	26.9	25.7	85	0	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F071  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 7.9  
DILT N FACTR: 0.957 0.957  
SAMPLE ID: SL-509-SA5C-SB-4.0-5.0  
CONTROL NO.: F071-04 F071-04A  
LAB FILE ID: 98F09024 98F09023  
DATIME EXTRACTD: 06/14/1211:15 06/14/1211:15 DATE COLLECTED: 06/11/12  
DATIME ANALYZD: 06/19/1217:08 06/19/1217:04 DATE RECEIVED: 06/11/12  
PREP. BATCH: IMF029S IMF029S  
CALIB. REF: 98F09016 98F09016

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	20100	2600	22400	88	75-125
Antimony	0.239J	26.0	25.7	98	75-125
Arsenic	5.59	26.0	29.1	90	75-125
Barium	137	26.0	163	101	75-125
Beryllium	0.820	26.0	27.2	102	75-125
Boron	3.66J	26.0	29.6	100	75-125
Cadmium	0.374J	26.0	25.2	95	75-125
Calcium	9190	2600	11500	91	75-125
Chromium	26.5	26.0	49.0	87	75-125
Cobalt	6.65	26.0	29.3	87	75-125
Copper	10.3	26.0	32.3	85	75-125
Iron	23400	2600	25500	79	75-125
Lead	23.0	26.0	48.2	97	75-125
Magnesium	4680	2600	7010	90	75-125
Manganese	214	26.0	235	79	75-125
Molybdenum	0.509J	26.0	25.6	96	75-125
Nickel	14.4	26.0	36.4	85	75-125
Potassium	2500	2600	5120	101	75-125
Selenium	ND	26.0	24.5	94	75-125
Silver	0.0620J	26.0	24.3	93	75-125
Sodium	339	2600	2620	88	75-125
Strontium	29.9	26.0	54.5	95	75-125
Thallium	0.263J	26.0	25.5	97	75-125
Tin	ND	26.0	28.8	111	75-125
Titanium	904	26.0	922	70*	75-125
Vanadium	43.2	26.0	65.6	86	75-125
Zinc	49.7	52.0	94.2	86	75-125
Lithium	19.8	26.0	47.4	106	75-125
Phosphorus	153	260	391	92	75-125
Zirconium	2.91J	26.0	28.1	97	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F071  
 METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 7.9  
 DILUTION FACTOR: 0.957 4.78  
 SAMPLE ID: SL-509-SA5C-SB SL-509-SA5C-SB  
 EMAX SAMP ID: F071-04 F071-04J  
 LAB FILE ID: 98F09024 98F09025  
 DATE EXTRACTED: 06/14/1211:15 06/14/1211:15 DATE COLLECTED: 06/11/12  
 DATE ANALYZED: 06/19/1217:08 06/19/1217:13 DATE RECEIVED: 06/11/12  
 PREP. BATCH: IMF029S IMF029S  
 CALIB. REF: 98F09016 98F09016

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	20100	21400	7	10
Antimony	0.239J	ND	NA	10
Arsenic	5.59	6.01	7	10
Barium	137	126	8	10
Beryllium	0.820	0.882J	NA	10
Boron	3.66J	ND	NA	10
Cadmium	0.374J	0.357J	NA	10
Calcium	9190	10100	9	10
Chromium	26.5	28.3	7	10
Cobalt	6.65	7.31	10	10
Copper	10.3	11.4	10	10
Iron	23400	25800	10	10
Lead	23.0	23.0	0	10
Magnesium	4680	5050	8	10
Manganese	214	234	9	10
Molybdenum	0.509J	0.518J	NA	10
Nickel	14.4	15.7	9	10
Potassium	2500	2660	6	10
Selenium	ND	ND	0	10
Silver	0.0620J	ND	NA	10
Sodium	339	342J	NA	10
Strontium	29.9	29.0	3	10
Thallium	0.263J	0.270J	NA	10
Tin	ND	ND	0	10
Titanium	904	929	3	10
Vanadium	43.2	45.7	6	10
Zinc	49.7	52.1	5	10
Lithium	19.8	20.4	3	10
Phosphorus	153	162	6	10
Zirconium	2.91J	ND	NA	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F071

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGF021SB	ND	1	NA	0.100	0.0500	06/19/1217:05	06/19/1213:15	M47F014010	M47F014008	HGF021S	NA	06/19/12
LCS1S	HGF021SL	0.835	1	NA	0.100	0.0500	06/19/1217:07	06/19/1213:15	M47F014011	M47F014008	HGF021S	NA	06/19/12
LCD1S	HGF021SC	0.833	1	NA	0.100	0.0500	06/19/1217:09	06/19/1213:15	M47F014012	M47F014008	HGF021S	NA	06/19/12
SL-509-SA5C-SB-4.0-5.0AS	F071-04A	0.945	0.998	7.9	0.108	0.0542	06/19/1217:11	06/19/1213:15	M47F014013	M47F014008	HGF021S	06/11/12	06/11/12
SL-509-SA5C-SB-4.0-5.0	F071-04	ND	0.998	7.9	0.108	0.0542	06/19/1217:14	06/19/1213:15	M47F014014	M47F014008	HGF021S	06/11/12	06/11/12
SL-509-SA5C-SB-4.0-5.0DL	F071-04J	ND	4.99	7.9	0.542	0.271	06/19/1217:17	06/19/1213:15	M47F014015	M47F014008	HGF021S	06/11/12	06/11/12
SL-509-SA5C-SB-4.0-5.0MS	F071-04M	0.919	0.988	7.9	0.107	0.0536	06/19/1217:19	06/19/1213:15	M47F014016	M47F014008	HGF021S	06/11/12	06/11/12
SL-509-SA5C-SB-4.0-5.0MSD	F071-04S	0.925	0.998	7.9	0.108	0.0542	06/19/1217:21	06/19/1213:15	M47F014017	M47F014008	HGF021S	06/11/12	06/11/12
SL-518-SA5C-SB-4.0-5.0	F071-01	ND	0.997	10.6	0.112	0.0558	06/19/1217:23	06/19/1213:15	M47F014018	M47F014008	HGF021S	06/11/12	06/11/12
SL-518-SA5C-SB-9.0-10.0	F071-02	ND	0.997	8.2	0.109	0.0543	06/19/1217:25	06/19/1213:15	M47F014019	M47F014008	HGF021S	06/11/12	06/11/12
SL-509-SA5C-SB-9.0-10.0	F071-03	ND	0.993	8.1	0.108	0.0540	06/19/1217:33	06/19/1213:15	M47F014022	M47F014020	HGF021S	06/11/12	06/11/12
SL-809-SA5C-SB-4.0-5.0	F071-05	ND	0.990	8.8	0.109	0.0543	06/19/1217:35	06/19/1213:15	M47F014023	M47F014020	HGF021S	06/11/12	06/11/12
SL-574-SA5C-SB-9.0-10.0	F071-06	ND	1.00	12.6	0.114	0.0572	06/19/1217:37	06/19/1213:15	M47F014024	M47F014020	HGF021S	06/11/12	06/11/12
SL-574-SA5C-SB-4.0-5.0	F071-07	ND	0.990	9.5	0.109	0.0547	06/19/1217:39	06/19/1213:15	M47F014025	M47F014020	HGF021S	06/11/12	06/11/12
SL-508-SA5C-SB-4.0-5.0	F071-08	ND	1.00	9.2	0.110	0.0551	06/19/1217:41	06/19/1213:15	M47F014026	M47F014020	HGF021S	06/11/12	06/11/12
SL-508-SA5C-SB-6.5-7.5	F071-09	ND	0.997	6.5	0.107	0.0533	06/19/1217:44	06/19/1213:15	M47F014027	M47F014020	HGF021S	06/11/12	06/11/12
SL-507-SA5C-SB-2.5-3.5	F071-10	ND	0.987	8.2	0.108	0.0538	06/19/1217:46	06/19/1213:15	M47F014028	M47F014020	HGF021S	06/11/12	06/11/12
SL-520-SA5C-SB-6.5-7.5	F071-11	ND	0.992	6.2	0.106	0.0529	06/19/1217:49	06/19/1213:15	M47F014029	M47F014020	HGF021S	06/11/12	06/11/12
SL-521-SA5C-SB-0.0-0.5	F071-12	ND	0.995	12.2	0.113	0.0567	06/19/1217:51	06/19/1213:15	M47F014030	M47F014020	HGF021S	06/11/12	06/11/12
SL-521-SA5C-SB-4.0-5.0	F071-13	ND	1.01	11.6	0.114	0.0571	06/19/1217:53	06/19/1213:15	M47F014031	M47F014020	HGF021S	06/11/12	06/11/12
SL-521-SA5C-SB-9.0-10.0	F071-14	ND	0.993	11.9	0.113	0.0564	06/19/1218:00	06/19/1213:15	M47F014034	M47F014032	HGF021S	06/11/12	06/11/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F071  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF021SB HGF021SL HGF021SC  
LAB FILE ID: M47F014010 M47F014011 M47F014012  
DATIME EXTRCTD: 06/19/1213:15 06/19/1213:15 06/19/1213:15 DATE COLLECTED: NA  
DATIME ANALYZD: 06/19/1217:05 06/19/1217:07 06/19/1217:09 DATE RECEIVED: 06/19/12  
PREP. BATCH: HGF021S HGF021S HGF021S  
CALIB. REF: M47F014008 M47F014008 M47F014008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.835	100	.833	.833	100	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F071  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 7.9  
DILTN FACTR: 0.998 0.988 0.998  
SAMPLE ID: SL-509-SA5C-SB-4.0-5.0  
CONTROL NO.: F071-04 F071-04M F071-04S  
LAB FILE ID: M47F014014 M47F014016 M47F014017  
DATIME EXTRCTD: 06/19/1213:15 06/19/1213:15 06/19/1213:15 DATE COLLECTED: 06/11/12  
DATIME ANALYZD: 06/19/1217:14 06/19/1217:19 06/19/1217:21 DATE RECEIVED: 06/11/12  
PREP. BATCH: HGF021S HGF021S HGF021S  
CALIB. REF: M47F014008 M47F014008 M47F014008

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.894	.919	103	.903	.925	102	1	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F071  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 7.9  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: SL-509-SA5C-SB-4.0-5.0  
CONTROL NO.: F071-04 F071-04A  
LAB FILE ID: M47F014014 M47F014013  
DATIME EXTRCTD: 06/19/1213:15 06/19/1213:15 DATE COLLECTED: 06/11/12  
DATIME ANALYZD: 06/19/1217:14 06/19/1217:11 DATE RECEIVED: 06/11/12  
PREP. BATCH: HGF021S HGF021S  
CALIB. REF: M47F014008 M47F014008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.903	.945	105	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F071  
 METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 7.9  
 DILUTION FACTOR: 0.998 4.99  
 SAMPLE ID: SL-509-SA5C-SB-4.0- F071-04 SL-509-SA5C-SB-4.0- F071-04J  
 EMAX SAMP ID: F071-04 F071-04J  
 LAB FILE ID: M47F014014 M47F014015  
 DATE EXTRACTED: 06/19/1213:15 06/19/1213:15 DATE COLLECTED: 06/11/12  
 DATE ANALYZED: 06/19/1217:14 06/19/1217:17 DATE RECEIVED: 06/11/12  
 PREP. BATCH: HGF021S HGF021S  
 CALIB. REF: M47F014008 M47F014008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 6850  
PERCHLORATE

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F071

Matrix : SOIL  
Instrument ID : G0

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLF002SB	ND	1	NA	5.00	2.50	06/14/1211:08	06/13/1214:23	NF14004	NF14003	PLF002S	NA	06/13/12
LCS1S	PLF002SL	27.1	1	NA	5.00	2.50	06/14/1211:23	06/13/1214:23	NF14005	NF14003	PLF002S	NA	06/13/12
LCD1S	PLF002SC	24.8	1	NA	5.00	2.50	06/14/1211:37	06/13/1214:23	NF14006	NF14003	PLF002S	NA	06/13/12
SL-518-SA5C-SB-4.0-5.0	F071-01	ND	1	10.6	5.59	2.80	06/14/1213:03	06/13/1214:23	NF14012	NF14003	PLF002S	06/11/1209:24	06/11/12
SL-518-SA5C-SB-9.0-10.0	F071-02	ND	1	8.2	5.45	2.72	06/14/1213:17	06/13/1214:23	NF14013	NF14003	PLF002S	06/11/1209:28	06/11/12
SL-509-SA5C-SB-9.0-10.0	F071-03	ND	1	8.1	5.44	2.72	06/14/1214:17	06/13/1214:23	NF14017	NF14014	PLF002S	06/11/1208:38	06/11/12
SL-509-SA5C-SB-4.0-5.0	F071-04	ND	1	7.9	5.43	2.71	06/14/1214:31	06/13/1214:23	NF14018	NF14014	PLF002S	06/11/1208:43	06/11/12
SL-509-SA5C-SB-4.0-5.0MSDF	F071-04S	26.7	1	7.9	5.43	2.71	06/14/1215:04	06/13/1214:23	NF14020	NF14014	PLF002S	06/11/1208:43	06/11/12
SL-509-SA5C-SB-4.0-5.0MS	F071-04M	26.6	1	7.9	5.43	2.71	06/14/1215:21	06/13/1214:23	NF14021	NF14014	PLF002S	06/11/1208:43	06/11/12
SL-809-SA5C-SB-4.0-5.0	F071-05	ND	1	8.8	5.48	2.74	06/14/1215:35	06/13/1214:23	NF14022	NF14014	PLF002S	06/11/1208:30	06/11/12
SL-574-SA5C-SB-9.0-10.0	F071-06	ND	1	12.6	5.72	2.86	06/14/1215:49	06/13/1214:23	NF14023	NF14014	PLF002S	06/11/1211:30	06/11/12
SL-574-SA5C-SB-4.0-5.0	F071-07	ND	1	9.5	5.52	2.76	06/14/1216:03	06/13/1214:23	NF14024	NF14014	PLF002S	06/11/1211:25	06/11/12
SL-508-SA5C-SB-4.0-5.0	F071-08	ND	1	9.2	5.51	2.75	06/14/1216:32	06/13/1214:23	NF14026	NF14025	PLF002S	06/11/1210:50	06/11/12
SL-508-SA5C-SB-6.5-7.5	F071-09	ND	1	6.5	5.35	2.67	06/14/1216:46	06/13/1214:23	NF14027	NF14025	PLF002S	06/11/1210:55	06/11/12
SL-507-SA5C-SB-2.5-3.5	F071-10	ND	1	8.2	5.45	2.72	06/14/1217:13	06/13/1214:23	NF14028	NF14025	PLF002S	06/11/1213:30	06/11/12
SL-520-SA5C-SB-6.5-7.5	F071-11	ND	1	6.2	5.33	2.67	06/14/1217:27	06/13/1214:23	NF14029	NF14025	PLF002S	06/11/1214:50	06/11/12
SL-521-SA5C-SB-0.0-0.5	F071-12	ND	1	12.2	5.69	2.85	06/14/1217:41	06/13/1214:23	NF14030	NF14025	PLF002S	06/11/1215:20	06/11/12
SL-521-SA5C-SB-4.0-5.0	F071-13	ND	1	11.6	5.66	2.83	06/14/1217:56	06/13/1214:23	NF14031	NF14025	PLF002S	06/11/1215:25	06/11/12
SL-521-SA5C-SB-9.0-10.0	F071-14	ND	1	11.9	5.68	2.84	06/14/1218:10	06/13/1214:23	NF14032	NF14025	PLF002S	06/11/1215:30	06/11/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F071  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLF002SB PLF002SL PLF002SC  
LAB FILE ID: NF14004 NF14005 NF14006  
DATE EXTRACTED: 06/13/1214:23 06/13/1214:23 06/13/1214:23 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1211:08 06/14/1211:23 06/14/1211:37 DATE RECEIVED: 06/13/12  
PREP. BATCH: PLF002S PLF002S PLF002S  
CALIB. REF: NF14003 NF14003 NF14003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	27.1	108	25.0	24.8	99	9	85-115	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F071  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: 7.9  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-509-SA5C-SB-4.0-5.0  
LAB SAMP ID: F071-04 F071-04M F071-04S  
LAB FILE ID: NF14018 NF14021 NF14020  
DATE EXTRACTED: 06/13/1214:23 06/13/1214:23 06/13/1214:23 DATE COLLECTED: 06/11/12 08:43  
DATE ANALYZED: 06/14/1214:31 06/14/1215:21 06/14/1215:04 DATE RECEIVED: 06/11/12  
PREP. BATCH: PLF002S PLF002S PLF002S  
CALIB. REF: NF14014 NF14014 NF14014

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	27.1	26.6	98	27.1	26.7	98	1	80-120	20

METHOD 7199  
 HEXAVALENT CHROMIUM

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F071

Matrix : SOIL  
 Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCF006SB	ND	1	NA	1.00	0.500	06/20/1214:28	06/19/1213:52	IF20003	IF20001	HCF006S	NA	06/19/12
MBLK1S	HCF006SQ	ND	1	NA	1.00	0.500	06/20/1214:38	06/19/1213:52	IF20004	IF20001	HCF006S	NA	06/19/12
LCS1S	CSF006SL	8.78	1	NA	1.00	0.500	06/20/1214:48	06/19/1213:52	IF20005	IF20001	HCF006S	NA	06/19/12
LCS1S	CSF006SX	9.05	1	NA	1.00	0.500	06/20/1214:59	06/19/1213:52	IF20006	IF20001	HCF006S	NA	06/19/12
LCS2S	CIF006SL	264	20	NA	20.0	10.0	06/20/1215:09	06/19/1213:52	IF20007	IF20001	HCF006S	NA	06/19/12
LCS2S	CIF006SX	264	20	NA	20.0	10.0	06/20/1215:20	06/19/1213:52	IF20008	IF20001	HCF006S	NA	06/19/12
SL-520-SA5C-SB-6.5-7.5	F071-11	ND	1	6.2	1.07	0.533	06/20/1215:30	06/19/1213:52	IF20009	IF20001	HCF006S	06/11/1214:50	06/11/12
SL-520-SA5C-SB-6.5-7.5	F071-11R	ND	1	6.2	1.07	0.533	06/20/1215:40	06/19/1213:52	IF20010	IF20001	HCF006S	06/11/1214:50	06/11/12
SL-521-SA5C-SB-0.0-0.5	F071-12	ND	1	12.2	1.14	0.569	06/20/1215:51	06/19/1213:52	IF20011	IF20001	HCF006S	06/11/1215:20	06/11/12
SL-521-SA5C-SB-0.0-0.5	F071-12R	ND	1	12.2	1.14	0.569	06/20/1216:01	06/19/1213:52	IF20012	IF20001	HCF006S	06/11/1215:20	06/11/12
SL-521-SA5C-SB-4.0-5.0	F071-13	ND	1	11.6	1.13	0.566	06/20/1216:32	06/19/1213:52	IF20015	IF20013	HCF006S	06/11/1215:25	06/11/12
SL-521-SA5C-SB-4.0-5.0	F071-13R	ND	1	11.6	1.13	0.566	06/20/1216:43	06/19/1213:52	IF20016	IF20013	HCF006S	06/11/1215:25	06/11/12
SL-521-SA5C-SB-9.0-10.0	F071-14	ND	1	11.9	1.14	0.568	06/20/1216:53	06/19/1213:52	IF20017	IF20013	HCF006S	06/11/1215:30	06/11/12
SL-521-SA5C-SB-9.0-10.0	F071-14R	ND	1	11.9	1.14	0.568	06/20/1217:04	06/19/1213:52	IF20018	IF20013	HCF006S	06/11/1215:30	06/11/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F071  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 20  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF006SB CIF006SL  
LAB FILE ID: IF20003 IF20007  
DATE EXTRACTED: 06/19/1213:52 06/19/1213:52 DATE COLLECTED: NA  
DATE ANALYZED: 06/20/1214:28 06/20/1215:09 DATE RECEIVED: 06/19/12  
PREP. BATCH: HCF006S HCF006S  
CALIB. REF: IF20001 IF20001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	270	264	98	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F071  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 20  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF006SQ CIF006SX  
LAB FILE ID: IF20004 IF20008  
DATE EXTRACTED: 06/19/1213:52 06/19/1213:52 DATE COLLECTED: NA  
DATE ANALYZED: 06/20/1214:38 06/20/1215:20 DATE RECEIVED: 06/19/12  
PREP. BATCH: HCF006S HCF006S  
CALIB. REF: IF20001 IF20001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
----- Hexavalent Chromium	----- ND	----- 270	----- 264	----- 98	----- 80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F071  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF006SB CSF006SL  
LAB FILE ID: IF20003 IF20005  
DATE EXTRACTED: 06/19/1213:52 06/19/1213:52 DATE COLLECTED: NA  
DATE ANALYZED: 06/20/1214:28 06/20/1214:48 DATE RECEIVED: 06/19/12  
PREP. BATCH: HCF006S HCF006S  
CALIB. REF: IF20001 IF20001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.78	88	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F071  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF006SQ CSF006SX  
LAB FILE ID: IF20004 IF20006  
DATE EXTRACTED: 06/19/1213:52 06/19/1213:52 DATE COLLECTED: NA  
DATE ANALYZED: 06/20/1214:38 06/20/1214:59 DATE RECEIVED: 06/19/12  
PREP. BATCH: HCF006S HCF006S  
CALIB. REF: IF20001 IF20001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
----- Hexavalent Chromium	ND	10.0	9.05	90	80-120

METHOD 9045D  
PH

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F071

Matrix : SOIL  
Instrument ID : 53

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL	MDL	Analysis	Extraction	LFID	CAL REF	PREP BATCH	Collection	Received
			(pH Unit)	(pH Unit)	(pH Unit)		DATETIME	DATETIME				DATETIME	DATETIME
SL-518-SA5C-SB-4.0-5.0	F071-01	8.05	1	NA	NA	NA	06/12/1214:14	06/12/1212:44	12PHF013S01	12PHF013	PHF013S	06/11/1209:24	06/11/12
SL-518-SA5C-SB-9.0-10.0	F071-02	8.73	1	NA	NA	NA	06/12/1214:15	06/12/1212:44	12PHF013S02	12PHF013	PHF013S	06/11/1209:28	06/11/12
SL-509-SA5C-SB-9.0-10.0	F071-03	8.23	1	NA	NA	NA	06/12/1214:17	06/12/1212:44	12PHF013S03	12PHF013	PHF013S	06/11/1208:38	06/11/12
SL-509-SA5C-SB-4.0-5.0	F071-04	8.21	1	NA	NA	NA	06/12/1214:19	06/12/1212:44	12PHF013S04	12PHF013	PHF013S	06/11/1208:43	06/11/12
SL-509-SA5C-SB-4.0-5.0DUP	F071-04D	8.22	1	NA	NA	NA	06/12/1214:20	06/12/1212:44	12PHF013S05	12PHF013	PHF013S	06/11/1208:43	06/11/12
SL-809-SA5C-SB-4.0-5.0	F071-05	8.36	1	NA	NA	NA	06/12/1214:21	06/12/1212:44	12PHF013S06	12PHF013	PHF013S	06/11/1208:30	06/11/12
SL-574-SA5C-SB-9.0-10.0	F071-06	8.43	1	NA	NA	NA	06/12/1214:22	06/12/1212:44	12PHF013S07	12PHF013	PHF013S	06/11/1211:30	06/11/12
SL-574-SA5C-SB-4.0-5.0	F071-07	8.12	1	NA	NA	NA	06/12/1214:23	06/12/1212:44	12PHF013S08	12PHF013	PHF013S	06/11/1211:25	06/11/12
SL-508-SA5C-SB-4.0-5.0	F071-08	8.28	1	NA	NA	NA	06/12/1214:25	06/12/1212:44	12PHF013S09	12PHF013	PHF013S	06/11/1210:50	06/11/12
SL-508-SA5C-SB-6.5-7.5	F071-09	8.40	1	NA	NA	NA	06/12/1214:26	06/12/1212:44	12PHF013S10	12PHF013	PHF013S	06/11/1210:55	06/11/12
SL-507-SA5C-SB-2.5-3.5	F071-10	7.20	1	NA	NA	NA	06/12/1214:29	06/12/1212:44	12PHF013S11	12PHF013	PHF013S	06/11/1213:30	06/11/12
SL-520-SA5C-SB-6.5-7.5	F071-11	8.87	1	NA	NA	NA	06/12/1214:31	06/12/1212:44	12PHF013S12	12PHF013	PHF013S	06/11/1214:50	06/11/12
SL-521-SA5C-SB-0.0-0.5	F071-12	7.05	1	NA	NA	NA	06/12/1214:35	06/12/1212:44	12PHF013S13	12PHF013	PHF013S	06/11/1215:20	06/11/12
SL-521-SA5C-SB-4.0-5.0	F071-13	8.16	1	NA	NA	NA	06/12/1214:37	06/12/1212:44	12PHF013S14	12PHF013	PHF013S	06/11/1215:25	06/11/12
SL-521-SA5C-SB-9.0-10.0	F071-14	8.44	1	NA	NA	NA	06/12/1214:39	06/12/1212:44	12PHF013S15	12PHF013	PHF013S	06/11/1215:30	06/11/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.: 12F071 DATE RECEIVED: 06/11/12  
SAMPLE ID: SL-509-SA5C-SB-4.0-5.0DUP DATE EXTRACTED: 06/12/1212:44  
CONTROL NO.: F071-04D DATE ANALYZED: 06/12/1214:20

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	RPD (pH unit)	RPD LIMIT (pH Unit)
pH	8.21	8.22	-0.01	+/-0.1

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/20/12 15:36
Sample ID:   SL-690-SA5C-SB-3.5-4.5            Date Analyzed: 06/25/12 22:18
Lab Samp ID: F074-01                            Dilution Factor: 1
Lab File ID: RFL337                             Matrix          : SOIL
Ext Btch ID: SVF041S                            % Moisture     : 8.2
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	121	363.1	33.4*	40-130
2-FLUOROBIPHENYL	114	363.1	31.4*	45-130
TERPHENYL-D14	265	363.1	73.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/26/12 15:21
Sample ID    : SL-692-SA5C-SB-5.0-6.0          Date Analyzed: 06/29/12 19:55
Lab Samp ID  : F074-03R                         Dilution Factor: 1
Lab File ID  : RFH191                           Matrix          : SOIL
Ext Btch ID  : SVF053S                          % Moisture     : 8.2
Calib. Ref.  : RFH072                           Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	216	363.1	59.6	40-130
2-FLUOROBIPHENYL	201	363.1	55.4	45-130
TERPHENYL-D14	299	363.1	82.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/20/12 15:36
Sample ID:   SL-743-SA5C-SB-1.0-2.0           Date Analyzed: 06/25/12 20:57
Lab Samp ID: F074-05                           Dilution Factor: 1
Lab File ID: RFL334                             Matrix          : SOIL
Ext Btch ID: SVF041S                            % Moisture     : 9.2
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	137	367.1	37.4*	40-130
2-FLUOROBIPHENYL	123	367.1	33.4*	45-130
TERPHENYL-D14	202	367.1	55.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/26/12 15:21
Sample ID:   SL-743-SA5C-SB-4.0-5.0           Date Analyzed: 06/29/12 20:33
Lab Samp ID: F074-07R                           Dilution Factor: 1
Lab File ID: RFH193                             Matrix          : SOIL
Ext Btch ID: SVF053S                            % Moisture     : 10.3
Calib. Ref.: RFH072                             Instrument ID  : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	202	371.6	54.4	40-130
2-FLUOROBIPHENYL	185	371.6	49.8	45-130
TERPHENYL-D14	308	371.6	83.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/20/12 15:36
Sample ID:   SL-743-SA5C-SB-9.0-10.0           Date Analyzed: 06/25/12 23:12
Lab Samp ID: F074-09                            Dilution Factor: 1
Lab File ID: RFL339                             Matrix          : SOIL
Ext Btch ID: SVF041S                           % Moisture     : 8.7
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	200	365.1	54.7	40-130
2-FLUOROBIPHENYL	164	365.1	45.0	45-130
TERPHENYL-D14	254	365.1	69.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/20/12 15:36
Sample ID    : SL-743-SA5C-SB-14.0-15.0        Date Analyzed: 06/25/12 21:24
Lab Samp ID  : F074-11                          Dilution Factor: 1
Lab File ID  : RFL335                            Matrix          : SOIL
Ext Btch ID  : SVF041S                          % Moisture     : 1.1
Calib. Ref.  : REL181                            Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.1	2.5
BENZO (E) PYRENE	ND	5.1	2.5
BIPHENYL	ND	5.1	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	133	337.0	39.5*	40-130
2-FLUOROBIPHENYL	126	337.0	37.3*	45-130
TERPHENYL-D14	239	337.0	71.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/20/12 15:36
Sample ID:   SL-693-SA5C-SB-4.0-5.0           Date Analyzed: 06/25/12 23:38
Lab Samp ID: F074-13                           Dilution Factor: 1
Lab File ID: RFL340                             Matrix          : SOIL
Ext Btch ID: SVF041S                           % Moisture     : 8.3
Calib. Ref.: REL181                             Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	129	363.5	35.6*	40-130
2-FLUOROBIPHENYL	140	363.5	38.5*	45-130
TERPHENYL-D14	286	363.5	78.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/26/12 15:21
Sample ID:   SL-693-SA5C-SB-9.0-10.0           Date Analyzed: 06/29/12 21:30
Lab Samp ID: F074-15R                           Dilution Factor: 2
Lab File ID: RFH196                             Matrix          : SOIL
Ext Btch ID: SVF053S                            % Moisture     : 9.3
Calib. Ref.: RFH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	ND	22	5.5
BENZO (A) ANTHRACENE	5.6J	22	5.5
BENZO (A) PYRENE	ND	22	5.5
BENZO (B) FLUORANTHENE	ND	22	5.5
BENZO (K) FLUORANTHENE	ND	22	5.5
BENZO (G, H, I) PERYLENE	ND	22	5.5
CHRYSENE	ND	22	5.5
DIBENZO (A, H) ANTHRACENE	ND	22	5.5
FLUORANTHENE	ND	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	ND	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	ND	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	ND	11	5.5
BIPHENYL	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	184	367.5	50.2	40-130
2-FLUOROBIPHENYL	174	367.5	47.3	45-130
TERPHENYL-D14	263	367.5	71.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/26/12 15:21
Sample ID    : SL-687-SA5C-SB-4.0-5.0          Date Analyzed: 06/29/12 21:49
Lab Samp ID  : F074-18R                         Dilution Factor: 1
Lab File ID  : RFH197                           Matrix          : SOIL
Ext Btch ID  : SVF053S                          % Moisture     : 8.0
Calib. Ref.  : RFH072                           Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	200	362.3	55.3	40-130
2-FLUOROBIPHENYL	195	362.3	53.8	45-130
TERPHENYL-D14	303	362.3	83.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/26/12 15:21
Sample ID:   SL-689-SA5C-SB-4.0-5.0           Date Analyzed: 06/29/12 22:08
Lab Samp ID: F074-20R                           Dilution Factor: 1
Lab File ID: RFH198                             Matrix          : SOIL
Ext Btch ID: SVF053S                            % Moisture     : 8.6
Calib. Ref.: RFH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	214	364.7	58.6	40-130
2-FLUOROBIPHENYL	196	364.7	53.8	45-130
TERPHENYL-D14	265	364.7	72.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/26/12 15:21
Sample ID    : SL-689-SA5C-SB-7.5-8.5          Date Analyzed: 06/29/12 22:28
Lab Samp ID  : F074-22R                         Dilution Factor: 1
Lab File ID  : RFH199                           Matrix          : SOIL
Ext Btch ID  : SVF053S                          % Moisture     : 8.9
Calib. Ref.  : RFH072                           Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	229	365.9	62.6	40-130
2-FLUOROBIPHENYL	209	365.9	57.2	45-130
TERPHENYL-D14	298	365.9	81.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/26/12 15:21
Sample ID    : SL-688-SA5C-SB-9.0-10.0         Date Analyzed: 06/29/12 22:47
Lab Samp ID  : F074-24R                         Dilution Factor: 1
Lab File ID  : RFH200                           Matrix          : SOIL
Ext Btch ID  : SVF053S                          % Moisture     : 10.8
Calib. Ref.  : RFH072                           Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	225	373.7	60.3	40-130
2-FLUOROBIPHENYL	202	373.7	54.0	45-130
TERPHENYL-D14	280	373.7	75.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/26/12 15:21
Sample ID    : SL-688-SA5C-SB-4.0-5.0          Date Analyzed: 06/29/12 23:06
Lab Samp ID  : F074-26R                         Dilution Factor: 1
Lab File ID  : RFH201                           Matrix          : SOIL
Ext Btch ID  : SVF053S                          % Moisture      : 10.6
Calib. Ref.  : RFH072                           Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	245	372.8	65.8	40-130
2-FLUOROBIPHENYL	216	372.8	58.0	45-130
TERPHENYL-D14	333	372.8	89.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F074                           Date Extracted: 06/20/12 15:36
Sample ID    : MBLK1S                           Date Analyzed: 06/25/12 19:10
Lab Samp ID  : SVF041SB                         Dilution Factor: 1
Lab File ID  : RFL330                           Matrix          : SOIL
Ext Btch ID  : SVF041S                          % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	202	333.3	60.7	40-130
2-FLUOROBIPHENYL	203	333.3	60.9	45-130
TERPHENYL-D14	258	333.3	77.5	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F074  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF041SB SVF041SL SVF041SC  
LAB FILE ID: RFL330 RFL328 RFL329  
DATE EXTRACTED: 06/20/1215:36 06/20/1215:36 06/20/1215:36 DATE COLLECTED: NA  
DATE ANALYZED: 06/25/1219:10 06/25/1218:17 06/25/1218:42 DATE RECEIVED: 06/20/12  
PREP. BATCH: SVF041S SVF041S SVF041S  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	224	67	333	234	70	4	10-130	50
Acenaphthylene	ND	333	255	76	333	237	71	7	20-130	50
Anthracene	ND	333	242	73	333	248	74	2	20-130	50
Benzo (a) anthracene	ND	333	249	75	333	257	77	3	30-130	50
Benzo (a) pyrene	ND	333	303	91	333	294	88	3	30-130	50
Benzo (b) fluoranthene	ND	333	312	94	333	321	96	3	40-130	50
Benzo (k) fluoranthene	ND	333	307	92	333	276	83	11	30-140	50
Benzo (g, h, i) perylene	ND	333	309	93	333	282	85	9	30-140	50
Chrysene	ND	333	257	77	333	260	78	1	30-140	50
Dibenzo (a, h) anthracene	ND	333	327	98	333	298	89	9	40-140	50
Fluoranthene	ND	333	292	88	333	300	90	3	30-130	50
Fluorene	ND	333	216	65	333	221	66	2	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	320	96	333	291	87	10	20-160	50
Naphthalene	ND	333	255	77	333	260	78	2	10-130	50
Phenanthrene	ND	333	255	76	333	340	102	29	20-130	50
2-Methylnaphthalene	ND	333	241	72	333	223	67	8	30-150	50
1-Methylnaphthalene	ND	333	250	75	333	236	71	6	30-150	50
N-Nitrosodimethylamine	ND	333	334	100	333	322	97	4	30-150	50
Pyrene	ND	333	293	88	333	300	90	2	20-150	50
Azobenzene	ND	333	205	62	333	208	62	1	30-150	50
Benzo (e) pyrene	ND	333	289	87	333	275	82	5	30-150	50
Biphenyl	ND	333	217	65	333	204	61	6	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	232	70	333	232	70	40-130
2-Fluorobiphenyl	333	217	65	333	193	58	45-130
Terphenyl-d14	333	254	76	333	258	78	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F074                           Date Extracted: 06/26/12 15:21
Sample ID    : MBLK2S                           Date Analyzed: 06/29/12 18:38
Lab Samp ID  : SVF053SB                        Dilution Factor: 1
Lab File ID  : RFH187                          Matrix          : SOIL
Ext Btch ID  : SVF053S                         % Moisture     : NA
Calib. Ref.  : RFH072                          Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	227	333.3	68.1	40-130
2-FLUOROBIPHENYL	215	333.3	64.5	45-130
TERPHENYL-D14	288	333.3	86.5	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F074  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2S  
LAB SAMP ID: SVF053SB SVF053SL SVF053SC  
LAB FILE ID: RFH187 RFH188 RFH189  
DATE EXTRACTED: 06/26/1215:21 06/26/1215:21 06/26/1215:21 DATE COLLECTED: NA  
DATE ANALYZED: 06/29/1218:38 06/29/1218:57 06/29/1219:16 DATE RECEIVED: 06/26/12  
PREP. BATCH: SVF053S SVF053S SVF053S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	258	77	333	283	85	9	10-130	50
Acenaphthylene	ND	333	273	82	333	300	90	10	20-130	50
Anthracene	ND	333	237	71	333	258	78	9	20-130	50
Benzo (a) anthracene	ND	333	259	78	333	276	83	6	30-130	50
Benzo (a) pyrene	ND	333	265	79	333	282	85	6	30-130	50
Benzo (b) fluoranthene	ND	333	296	89	333	307	92	4	40-130	50
Benzo (k) fluoranthene	ND	333	266	80	333	292	88	9	30-140	50
Benzo (g, h, i) perylene	ND	333	282	84	333	299	90	6	30-140	50
Chrysene	ND	333	253	76	333	269	81	6	30-140	50
Dibenzo (a, h) anthracene	ND	333	289	87	333	308	92	6	40-140	50
Fluoranthene	ND	333	272	82	333	291	87	7	30-130	50
Fluorene	ND	333	271	81	333	300	90	10	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	290	87	333	308	92	6	20-160	50
Naphthalene	ND	333	247	74	333	269	81	9	10-130	50
Phenanthrene	ND	333	245	74	333	269	81	9	20-130	50
2-Methylnaphthalene	ND	333	260	78	333	283	85	9	30-150	50
1-Methylnaphthalene	ND	333	260	78	333	285	85	9	30-150	50
N-Nitrosodimethylamine	ND	333	235	70	333	254	76	8	30-150	50
Pyrene	ND	333	262	79	333	279	84	6	20-150	50
Azobenzene	ND	333	223	67	333	248	74	10	30-150	50
Benzo (e) pyrene	ND	333	279	84	333	261	78	7	30-150	50
Biphenyl	ND	333	229	69	333	219	66	4	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	238	71	333	242	73	40-130
2-Fluorobiphenyl	333	230	69	333	235	71	45-130
Terphenyl-d14	333	275	83	333	272	82	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F074  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 10.6  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-688-SA5C-SB-4.0-5.0  
LAB SAMP ID: F074-26R F074-26M F074-26S  
LAB FILE ID: RFH201 RFL346 RFL347  
DATE EXTRACTED: 06/26/1215:21 06/20/1215:36 06/20/1215:36 DATE COLLECTED: 06/12/12  
DATE ANALYZED: 06/29/1223:06 06/26/1202:18 06/26/1202:45 DATE RECEIVED: 06/12/12  
PREP. BATCH: SVF053S SVF041S SVF041S  
CALIB. REF: RFH072 REL181 REL181

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	373	272	73	373	264	71	3	10-130	50
Acenaphthylene	ND	373	281	75	373	274	73	2	20-130	50
Anthracene	ND	373	300	80	373	304	81	1	20-130	50
Benzo (a) anthracene	ND	373	278	75	373	302	81	8	30-130	50
Benzo (a) pyrene	ND	373	355	95	373	366	98	3	30-130	50
Benzo (b) fluoranthene	ND	373	419	112	373	412	110	2	30-130	50
Benzo (k) fluoranthene	ND	373	364	98	373	382	103	5	30-130	50
Benzo (g, h, i) perylene	ND	373	235	63	373	221	59	6	30-140	50
Chrysene	ND	373	271	73	373	298	80	10	20-130	50
Dibenzo (a, h) anthracene	ND	373	279	75	373	270	72	3	30-130	50
Fluoranthene	ND	373	357	96	373	372	100	4	30-150	50
Fluorene	ND	373	267	72	373	260	70	3	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	373	268	72	373	258	69	4	20-160	50
Naphthalene	ND	373	227	61	373	207	56	9	10-130	50
Phenanthrene	ND	373	311	83	373	312	84	0	20-130	50
2-Methylnaphthalene	ND	373	227	61	373	227	61	0	30-150	50
1-Methylnaphthalene	ND	373	241	65	373	243	65	1	30-150	50
N-Nitrosodimethylamine	ND	373	373	100	373	373	100	0	20-150	50
Pyrene	ND	373	344	92	373	361	97	5	10-160	50
Azobenzene	ND	373	249	67	373	252	68	1	30-150	50
Benzo (e) pyrene	ND	373	344	92	373	352	94	2	30-150	50
Biphenyl	ND	373	211	56	373	205	55	3	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	373	225	60	373	208	56	40-130
2-Fluorobiphenyl	373	188	50	373	169	45	45-130
Terphenyl-d14	373	266	71	373	262	70	45-135

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/14/12 08:57
Sample ID    : TB-061212                        Date Analyzed: 06/14/12 08:57
Lab Samp ID  : F074-17                          Dilution Factor: 1
Lab File ID  : EF13034A                         Matrix          : WATER
Ext Btch ID  : VG39F08                          % Moisture     : NA
Calib. Ref.  : EF13023A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	18J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	33.6	40.00	84.1 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/14/12
Batch No.    : 12F074                             Date Extracted: 06/14/12 05:22
Sample ID    : MBLK1W                             Date Analyzed: 06/14/12 05:22
Lab Samp ID  : VG39F08B                           Dilution Factor: 1
Lab File ID  : EF13029A                           Matrix          : WATER
Ext Btch ID  : VG39F08                             % Moisture     : NA
Calib. Ref.  : EF13023A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	31.3	40.00	78.2 60-130

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F074  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F08B VG39F08L VG39F08C  
LAB FILE ID: EF13029A EF13030A EF13031A  
DATE EXTRACTED: 06/14/1205:22 06/14/1206:06 06/14/1206:49 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1205:22 06/14/1206:06 06/14/1206:49 DATE RECEIVED: 06/14/12  
PREP. BATCH: VG39F08 VG39F08 VG39F08  
CALIB. REF: EF13023A EF13023A EF13023A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	432	86	500	443	89	3	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	41.4	104	40.0	41.5	104	60-130

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client      : CDM                               Date Collected: 06/12/12
Project     : SSFL PHASE 3                       Date Received: 06/12/12
Batch No.   : 12F074                             Date Extracted: 06/13/12 19:17
Sample ID   : SL-690-SA5C-SB-4.5                 Date Analyzed: 06/13/12 19:17
Lab Samp ID: F074-02                             Dilution Factor: 1.03
Lab File ID: EF13015A                            Matrix          : SOIL
Ext Btch ID: GMF007S                             % Moisture     : NA
Calib. Ref.: EF13012A                            Instrument ID   : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.78	2.060	86.4 70-140

RL : Reporting Limit  
Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/12/12
Project     : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.   : 12F074                           Date Extracted: 06/13/12 20:00
Sample ID:  SL-692-SA5C-SB-6.0                 Date Analyzed: 06/13/12 20:00
Lab Samp ID: F074-04                           Dilution Factor: 1.2
Lab File ID: EF13016A                           Matrix          : SOIL
Ext Btch ID: GMF007S                             % Moisture     : NA
Calib. Ref.: EF13012A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.60
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	2.21	2.400	92.2 70-140

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/13/12 20:44
Sample ID:   SL-743-SA5C-SB-2.0                Date Analyzed: 06/13/12 20:44
Lab Samp ID: F074-06                           Dilution Factor: 0.98
Lab File ID: EF13017A                           Matrix          : SOIL
Ext Btch ID: GMF007S                            % Moisture     : NA
Calib. Ref.: EF13012A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.98	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.74	1.960	88.6 70-140

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/13/12 21:27
Sample ID:   SL-743-SA5C-SB-5.0                 Date Analyzed: 06/13/12 21:27
Lab Samp ID: F074-08                             Dilution Factor: 0.87
Lab File ID: EF13018A                           Matrix          : SOIL
Ext Btch ID: GMF007S                             % Moisture     : NA
Calib. Ref.: EF13012A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.87	0.44

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.53	1.740	88.1	70-140

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/13/12 22:10
Sample ID:   SL-743-SA5C-SB-10.0                Date Analyzed: 06/13/12 22:10
Lab Samp ID: F074-10                             Dilution Factor: 0.87
Lab File ID: EF13019A                            Matrix          : SOIL
Ext Btch ID: GMF007S                             % Moisture     : NA
Calib. Ref.: EF13012A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.87	0.44
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.44	1.740	83.0 70-140

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/13/12 22:53
Sample ID    : SL-743-SA5C-SB-15.0             Date Analyzed: 06/13/12 22:53
Lab Samp ID  : F074-12                          Dilution Factor: 1.46
Lab File ID  : EF13020A                         Matrix          : SOIL
Ext Btch ID  : GMF007S                           % Moisture     : NA
Calib. Ref.  : EF13012A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.5	0.73

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	2.62	2.920	89.7	70-140

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/13/12 23:37
Sample ID:   SL-693-SA5C-SB-5.0                Date Analyzed: 06/13/12 23:37
Lab Samp ID: F074-14                            Dilution Factor: 0.84
Lab File ID: EF13021A                           Matrix          : SOIL
Ext Btch ID: GMF007S                             % Moisture     : NA
Calib. Ref.: EF13012A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.84	0.42
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.49	1.680	88.8 70-140

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client      : CDM                               Date Collected: 06/12/12
Project     : SSFL PHASE 3                       Date Received: 06/12/12
Batch No.   : 12F074                             Date Extracted: 06/14/12 00:20
Sample ID:  SL-693-SA5C-SB-10.0                 Date Analyzed: 06/14/12 00:20
Lab Samp ID: F074-16                             Dilution Factor: 0.88
Lab File ID: EF13022A                            Matrix          : SOIL
Ext Btch ID: GMF007S                             % Moisture     : NA
Calib. Ref.: EF13012A                            Instrument ID  : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.88	0.44
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.44	1.760	81.9 70-140

RL : Reporting Limit  
Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/12/12
Project     : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.   : 12F074                           Date Extracted: 06/14/12 01:46
Sample ID:  SL-687-SA5C-SB-5.0                Date Analyzed: 06/14/12 01:46
Lab Samp ID: F074-19                           Dilution Factor: 1.17
Lab File ID: EF13024A                           Matrix          : SOIL
Ext Btch ID: GMF007S                             % Moisture     : NA
Calib. Ref.: EF13023A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.58
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.05	2.340	87.5 70-140

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                          Date Extracted: 06/14/12 02:29
Sample ID:   SL-689-SA5C-SB-5.0                Date Analyzed: 06/14/12 02:29
Lab Samp ID: F074-21                           Dilution Factor: 0.83
Lab File ID: EF13025A                          Matrix          : SOIL
Ext Btch ID: GMF007S                            % Moisture     : NA
Calib. Ref.: EF13023A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.83	0.42
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.43	1.660	86.4 70-140

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/14/12 03:13
Sample ID:   SL-689-SA5C-SB-8.5                 Date Analyzed: 06/14/12 03:13
Lab Samp ID: F074-23                             Dilution Factor: 1.29
Lab File ID: EF13026A                           Matrix          : SOIL
Ext Btch ID: GMF007S                             % Moisture     : NA
Calib. Ref.: EF13023A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.3	0.64
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.33	2.580	90.2 70-140

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/12/12
Project     : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.   : 12F074                           Date Extracted: 06/14/12 03:56
Sample ID:  SL-688-SA5C-SB-10.0               Date Analyzed: 06/14/12 03:56
Lab Samp ID: F074-25                           Dilution Factor: 1.04
Lab File ID: EF13027A                           Matrix          : SOIL
Ext Btch ID: GMF007S                            % Moisture     : NA
Calib. Ref.: EF13023A                           Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.76	2.080	84.8 70-140

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/14/12 04:39
Sample ID:   SL-688-SA5C-SB-5.0                Date Analyzed: 06/14/12 04:39
Lab Samp ID: F074-27                           Dilution Factor: 0.87
Lab File ID: EF13028A                          Matrix          : SOIL
Ext Btch ID: GMF007S                            % Moisture     : NA
Calib. Ref.: EF13023A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.87	0.44
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.44	1.740	82.8 70-140

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/13/12
Batch No.  : 12F074                             Date Extracted: 06/13/12 12:06
Sample ID  : MBLK1S                              Date Analyzed: 06/13/12 12:06
Lab Samp ID: GMF007SB                           Dilution Factor: 0.99
Lab File ID: EF13005A                           Matrix          : SOIL
Ext Btch ID: GMF007S                             % Moisture     : NA
Calib. Ref.: EF13003A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.99	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.72	1.980	87.1	60-130

RL : Reporting Limit  
 Methanol Extraction Date: 06/13/12 11:13

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F074  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 0.99 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF007SB GMF007SL GMF007SC  
LAB FILE ID: EF13005A EF13006A EF13007A  
DATE EXTRACTED: 06/13/1212:06 06/13/1212:49 06/13/1213:32 DATE COLLECTED: NA  
DATE ANALYZED: 06/13/1212:06 06/13/1212:49 06/13/1213:32 DATE RECEIVED: 06/13/12  
PREP. BATCH: GMF007S GMF007S GMF007S  
CALIB. REF: EF13003A EF13003A EF13003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	21.8	87	25.0	22.5	90	3	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.27	114	2.00	2.27	113	60-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID:   SL-690-SA5C-SB-3.5-4.5           Date Analyzed: 06/15/12 17:48
Lab Samp ID: F074-01                           Dilution Factor: 1
Lab File ID: LF15021A                          Matrix          : SOIL
Ext Btch ID: DSF018S                           % Moisture     : 8.2
Calib. Ref.: LF15015A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	67.8	108.9	62.3	50-150
HEXACOSANE	19.0	27.23	69.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID:   SL-692-SA5C-SB-5.0-6.0           Date Analyzed: 06/15/12 18:05
Lab Samp ID: F074-03                           Dilution Factor: 1
Lab File ID: LF15022A                          Matrix          : SOIL
Ext Btch ID: DSF018S                           % Moisture     : 8.2
Calib. Ref.: LF15015A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.8	108.9	64.1	50-150
HEXACOSANE	20.3	27.23	74.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID    : SL-743-SA5C-SB-1.0-2.0          Date Analyzed: 06/15/12 20:04
Lab Samp ID  : F074-05                           Dilution Factor: 1
Lab File ID  : LF15029A                          Matrix          : SOIL
Ext Btch ID  : DSF018S                           % Moisture     : 9.2
Calib. Ref.  : LF15027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	68.5	110.1	62.2	50-150
HEXACOSANE	19.1	27.53	69.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID:   SL-743-SA5C-SB-4.0-5.0           Date Analyzed: 06/15/12 20:54
Lab Samp ID: F074-07                           Dilution Factor: 1
Lab File ID: LF15032A                          Matrix          : SOIL
Ext Btch ID: DSF018S                           % Moisture     : 10.3
Calib. Ref.: LF15027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	3.9J	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	3.9J	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.9	111.5	67.1	50-150
HEXACOSANE	21.7	27.87	77.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID:   SL-743-SA5C-SB-9.0-10.0          Date Analyzed: 06/15/12 21:11
Lab Samp ID: F074-09                           Dilution Factor: 1
Lab File ID: LF15033A                          Matrix          : SOIL
Ext Btch ID: DSF018S                            % Moisture     : 8.7
Calib. Ref.: LF15027A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	4.7J	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	4.7J	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.1	109.5	64.9	50-150
HEXACOSANE	22.4	27.38	81.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID:   SL-743-SA5C-SB-14.0-15.0          Date Analyzed: 06/15/12 20:20
Lab Samp ID: F074-11                            Dilution Factor: 1
Lab File ID: LF15030A                           Matrix          : SOIL
Ext Btch ID: DSF018S                             % Moisture     : 1.1
Calib. Ref.: LF15027A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.1	2.5
EFH(C12-C14)	ND	5.1	2.5
EFH(C15-C20)	ND	5.1	2.5
EFH(C21-C30)	ND	5.1	2.5
EFH(C30-C40)	ND	10	5.1
TOTAL EFH(C8-C40)	ND	5.1	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	62.5	101.1	61.8	50-150
HEXACOSANE	18.7	25.28	73.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID:   SL-693-SA5C-SB-4.0-5.0           Date Analyzed: 06/15/12 21:28
Lab Samp ID: F074-13                           Dilution Factor: 1
Lab File ID: LF15034A                          Matrix          : SOIL
Ext Btch ID: DSF018S                           % Moisture     : 8.3
Calib. Ref.: LF15027A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	3.9J	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	3.9J	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	67.2	109.1	61.6	50-150
HEXACOSANE	20.7	27.26	75.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID:   SL-693-SA5C-SB-9.0-10.0           Date Analyzed: 06/15/12 21:45
Lab Samp ID: F074-15                             Dilution Factor: 1
Lab File ID: LF15035A                           Matrix          : SOIL
Ext Btch ID: DSF018S                             % Moisture     : 9.3
Calib. Ref.: LF15027A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	4.6J	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	4.6J	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.6	110.3	64.9	50-150
HEXACOSANE	21.1	27.56	76.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID    : SL-687-SA5C-SB-4.0-5.0          Date Analyzed: 06/15/12 18:56
Lab Samp ID  : F074-18                           Dilution Factor: 1
Lab File ID  : LF15025A                          Matrix          : SOIL
Ext Btch ID  : DSF018S                           % Moisture     : 8.0
Calib. Ref.  : LF15015A                          Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.2	108.7	65.5	50-150
HEXACOSANE	20.4	27.17	75.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID    : SL-689-SA5C-SB-4.0-5.0          Date Analyzed: 06/15/12 22:02
Lab Samp ID  : F074-20                           Dilution Factor: 1
Lab File ID  : LF15036A                          Matrix          : SOIL
Ext Btch ID  : DSF018S                            % Moisture     : 8.6
Calib. Ref.  : LF15027A                          Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	66.8	109.4	61.1	50-150
HEXACOSANE	20.7	27.35	75.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID:   SL-689-SA5C-SB-7.5-8.5           Date Analyzed: 06/15/12 22:19
Lab Samp ID: F074-22                           Dilution Factor: 1
Lab File ID: LF15037A                          Matrix          : SOIL
Ext Btch ID: DSF018S                            % Moisture     : 8.9
Calib. Ref.: LF15027A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	3.5J	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	3.5J	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.2	109.8	63.0	50-150
HEXACOSANE	21.2	27.44	77.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID    : SL-688-SA5C-SB-9.0-10.0         Date Analyzed: 06/15/12 20:37
Lab Samp ID  : F074-24                           Dilution Factor: 1
Lab File ID  : LF15031A                          Matrix          : SOIL
Ext Btch ID  : DSF018S                           % Moisture     : 10.8
Calib. Ref. : LF15027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.1	112.1	61.6	50-150
HEXACOSANE	20.1	28.03	71.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 13:33
Sample ID:   SL-688-SA5C-SB-4.0-5.0           Date Analyzed: 06/15/12 19:13
Lab Samp ID: F074-26                            Dilution Factor: 1
Lab File ID: LF15026A                          Matrix          : SOIL
Ext Btch ID: DSF018S                            % Moisture     : 10.6
Calib. Ref.: LF15015A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.0	111.9	64.4	50-150
HEXACOSANE	20.6	27.96	73.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/15/12
Batch No.    : 12F074                             Date Extracted: 06/15/12 13:33
Sample ID    : MBLK1S                             Date Analyzed: 06/15/12 17:31
Lab Samp ID  : DSF018SB                           Dilution Factor: 1
Lab File ID  : LF15020A                           Matrix          : SOIL
Ext Btch ID  : DSF018S                             % Moisture      : NA
Calib. Ref.  : LF15015A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	61.1	100.0	61.1	50-150
HEXACOSANE	18.0	25.00	71.8	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F074  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF018SB DSF018SL DSF018SC  
LAB FILE ID: LF15020A LF15018A LF15019A  
DATE EXTRACTED: 06/15/1213:33 06/15/1213:33 06/15/1213:33 DATE COLLECTED: NA  
DATE ANALYZED: 06/15/1217:31 06/15/1216:57 06/15/1217:14 DATE RECEIVED: 06/15/12  
PREP. BATCH: DSF018S DSF018S DSF018S  
CALIB. REF: LF15015A LF15015A LF15015A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	452	90	500	428	86	5	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	80.0	80	100	76.4	76	50-150
Hexacosane	25.0	19.8	79	25.0	18.7	75	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F074  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 8.2  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-692-SA5C-SB-5.0-6.0  
LAB SAMP ID: F074-03 F074-03M F074-03S  
LAB FILE ID: LF15022A LF15023A LF15024A  
DATE EXTRACTED: 06/15/1213:33 06/15/1213:33 06/15/1213:33 DATE COLLECTED: 06/12/12  
DATE ANALYZED: 06/15/1218:05 06/15/1218:22 06/15/1218:39 DATE RECEIVED: 06/12/12  
PREP. BATCH: DSF018S DSF018S DSF018S  
CALIB. REF: LF15015A LF15015A LF15015A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	545	460	84	545	448	82	3	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	109	79.6	73	109	75.8	70	50-150
Hexacosane	27.2	20.8	76	27.2	19.8	73	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 16:30
Sample ID:   SL-690-SA5C-SB-3.5-4.5           Date Analyzed: 06/19/12 01:26
Lab Samp ID: F074-01                           Dilution Factor: 1
Lab File ID: SF18027A                          Matrix          : SOIL
Ext Btch ID: CPF017S                           % Moisture     : 8.2
Calib. Ref.: SF18024A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	12.71   (14.11)	14.52	87.5   (97.2)	45-120
TETRACHLORO-M-XYLENE	13.01   (14.65)	14.52	89.6   (101)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                       Date Received: 06/12/12
Batch No.    : 12F074                             Date Extracted: 06/15/12 16:30
Sample ID:   SL-692-SA5C-SB-5.0-6.0              Date Analyzed: 06/19/12 02:00
Lab Samp ID: F074-03                               Dilution Factor: 1
Lab File ID: SF18028A                             Matrix          : SOIL
Ext Btch ID: CPF017S                              % Moisture     : 8.2
Calib. Ref.: SF18024A                             Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	13.45   (14.79)	14.52	92.6   (102)	45-120
TETRACHLORO-M-XYLENE	12.88   (14.75)	14.52	88.7   (102)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                       Date Received: 06/12/12
Batch No.    : 12F074                             Date Extracted: 06/15/12 16:30
Sample ID    : SL-693-SA5C-SB-4.0-5.0           Date Analyzed: 06/19/12 02:34
Lab Samp ID  : F074-13                           Dilution Factor: 1
Lab File ID  : SF18029A                          Matrix          : SOIL
Ext Btch ID  : CPF017S                            % Moisture      : 8.3
Calib. Ref.  : SF18024A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.44   (13.06)	14.54	78.7   (89.8)	45-120
TETRACHLORO-M-XYLENE	12.41   (13.67)	14.54	85.4   (94.0)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 16:30
Sample ID    : SL-693-SA5C-SB-9.0-10.0         Date Analyzed: 06/19/12 03:08
Lab Samp ID  : F074-15                           Dilution Factor: 1
Lab File ID  : SF18030A                          Matrix          : SOIL
Ext Btch ID  : CPF017S                           % Moisture     : 9.3
Calib. Ref.  : SF18024A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.77   (13.47)	14.70	80.1   (91.7)	45-120
TETRACHLORO-M-XYLENE	13.49   (14.74)	14.70	91.8   (100)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                       Date Received: 06/12/12
Batch No.    : 12F074                             Date Extracted: 06/15/12 16:30
Sample ID    : SL-687-SA5C-SB-4.0-5.0           Date Analyzed: 06/19/12 03:43
Lab Samp ID  : F074-18                           Dilution Factor: 1
Lab File ID  : SF18031A                          Matrix          : SOIL
Ext Btch ID  : CPF017S                            % Moisture     : 8.0
Calib. Ref.  : SF18024A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.63   (13.05)	14.49	80.2   (90.1)	45-120
TETRACHLORO-M-XYLENE	12.59   (13.72)	14.49	86.9   (94.7)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 16:30
Sample ID    : SL-689-SA5C-SB-4.0-5.0          Date Analyzed: 06/19/12 04:17
Lab Samp ID  : F074-20                           Dilution Factor: 1
Lab File ID  : SF18032A                         Matrix          : SOIL
Ext Btch ID  : CPF017S                           % Moisture     : 8.6
Calib. Ref.  : SF18024A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.75   (13.35)	14.58	80.5   (91.5)	45-120
TETRACHLORO-M-XYLENE	12.79   (13.84)	14.58	87.7   (94.9)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 16:30
Sample ID:   SL-689-SA5C-SB-7.5-8.5           Date Analyzed: 06/19/12 04:51
Lab Samp ID: F074-22                            Dilution Factor: 1
Lab File ID: SF18033A                          Matrix          : SOIL
Ext Btch ID: CPF017S                           % Moisture     : 8.9
Calib. Ref.: SF18024A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.56   (12.97)	14.63	79.0   (88.6)	45-120
TETRACHLORO-M-XYLENE	12.35   (13.74)	14.63	84.4   (93.9)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 16:30
Sample ID    : SL-688-SA5C-SB-9.0-10.0         Date Analyzed: 06/19/12 05:25
Lab Samp ID  : F074-24                           Dilution Factor: 1
Lab File ID  : SF18034A                          Matrix          : SOIL
Ext Btch ID  : CPF017S                           % Moisture     : 10.8
Calib. Ref.  : SF18024A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.59   (13.02)	14.94	77.5   (87.1)	45-120
TETRACHLORO-M-XYLENE	12.25   (13.94)	14.94	82.0   (93.3)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 16:30
Sample ID    : SL-688-SA5C-SB-4.0-5.0          Date Analyzed: 06/19/12 05:59
Lab Samp ID  : F074-26                           Dilution Factor: 1
Lab File ID  : SF18035A                          Matrix          : SOIL
Ext Btch ID  : CPF017S                            % Moisture     : 10.6
Calib. Ref.  : SF18024A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	12.54   (13.97)	14.91	84.1   (93.7)	45-120
TETRACHLORO-M-XYLENE	12.43   (13.83)	14.91	83.4   (92.7)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F074                           Date Extracted: 06/15/12 16:30
Sample ID    : MBLK1S                           Date Analyzed: 06/18/12 15:42
Lab Samp ID  : 60F017SB                         Dilution Factor: 1
Lab File ID  : SF18010B                         Matrix          : SOIL
Ext Btch ID  : CPF017S                          % Moisture     : NA
Calib. Ref.  : SF18007B                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	ND   (ND)	20	10   10	
AROCLOR 1221	ND   (ND)	20	10   10	
AROCLOR 1232	ND   (ND)	20	10   10	
AROCLOR 1242	ND   (ND)	20	10   10	
AROCLOR 1248	ND   (ND)	20	10   10	
AROCLOR 1254	ND   (ND)	20	10   10	
AROCLOR 1260	ND   (ND)	20	10   10	
AROCLOR 1262	ND   (ND)	20	10   10	
AROCLOR 1268	ND   (ND)	20	10   10	
AROCLOR 5432	ND   (ND)	40	20   20	
AROCLOR 5442	ND   (ND)	40	20   20	
AROCLOR 5460	ND   (ND)	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.55   (12.97)	13.33	86.6   (97.3)	45-120
TETRACHLORO-M-XYLENE	11.43   (13.35)	13.33	85.7   (100)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F074  
METHOD: METHOD 3550B/8082

MATRIX: SOIL  
DILUTION FACTOR: 1 1  
SAMPLE ID: MELK1S  
LAB SAMP ID: 60F017SB 60F017SL 60F017SC  
LAB FILE ID: SF18010B SF18011B SF18012B  
DATE EXTRACTED: 06/15/1216:30 06/15/1216:30 06/15/1216:30  
DATE ANALYZED: 06/18/1215:42 06/18/1216:17 06/18/1216:52  
PREP. BATCH: CPF017S CPF017S CPF017S  
CALIB. REF: SF18007B SF18007B SF18007B

ACCESSION:

PARAMETER	BINK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS (ug/kg)	% REC	SPIKE AMT (ug/kg)	BS (ug/kg)	% REC	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Aroclor 1016	ND (ND)	167	134 (153)	80 (92)	167	126 (152)	76 (91)	126 (152)	76 (91)	6 (1)	50-130	50
Aroclor 1260	ND (ND)	167	127 (156)	76 (94)	167	125 (144)	75 (86)	125 (144)	75 (86)	2 (8)	60-150	50
Aroclor 5460	ND (ND)	83.3	91.5 (95.1)	110 (114)	83.3	87.3 (91.4)	105 (110)	87.3 (91.4)	105 (110)	5 (4)	50-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS (ug/kg)	% REC	SPIKE AMT (ug/kg)	BS (ug/kg)	% REC	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
Decachlorobiphenyl	13.33	11.09 (12.16)	83.2 (91.3)	13.33	10.19 (11.48)	76.4 (86.1)	76.4 (86.1)	76.4 (86.1)	45-120
Tetrachloro-m-xylene	13.33	11.43 (12.85)	85.7 (96.4)	13.33	10.94 (11.92)	82.1 (89.4)	82.1 (89.4)	82.1 (89.4)	10-160

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/12/12
Project     : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.    : 12F074                           Date Extracted: 06/20/12 10:30
Sample ID: SL-690-SA5C-SB-3.5-4.5           Date Analyzed: 06/21/12 16:09
Lab Samp ID: F074-01                         Dilution Factor: 0.962
Lab File ID: 98F10030                       Matrix          : SOIL
Ext Btch ID: IMF038S                        % Moisture     : 8.2
Calib. Ref.: 98F10028                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13700	105	12.6
Antimony	0.135J	0.524	0.105
Arsenic	3.54	0.524	0.210
Barium	60.1	0.524	0.210
Beryllium	0.329J	0.524	0.0524
Boron	ND	5.24	2.62
Cadmium	0.0700J	0.524	0.0524
Calcium	1770	21.0	10.5
Chromium	12.4	0.524	0.210
Cobalt	1.91	0.524	0.0524
Copper	3.51	0.524	0.210
Iron	16200	105	10.5
Lead	5.07	0.524	0.105
Magnesium	2910	10.5	5.24
Manganese	66.9	0.524	0.262
Molybdenum	0.368J	0.524	0.0524
Nickel	3.60	0.524	0.210
Potassium	1170	105	31.4
Selenium	ND	0.524	0.210
Silver	ND	0.524	0.0524
Sodium	1120	105	52.4
Strontium	22.9	0.524	0.262
Thallium	0.167J	0.419	0.0524
Tin	ND	10.5	5.24
Titanium	657	1.05	0.524
Vanadium	23.8	0.524	0.0524
Zinc	32.1	5.24	1.57
Lithium	9.36	2.10	1.05
Phosphorus	52.7	12.6	6.29
Zirconium	ND	5.24	2.62

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/12/12
Project    : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.    : 12F074                           Date Extracted: 06/20/12 10:30
Sample ID: SL-692-SA5C-SB-5.0-6.0           Date Analyzed: 06/21/12 16:13
Lab Samp ID: F074-03                         Dilution Factor: 0.985
Lab File ID: 98F10031                       Matrix          : SOIL
Ext Btch ID: IMF038S                         % Moisture     : 8.2
Calib. Ref.: 98F10028                       Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12900	107	12.9
Antimony	0.225J	0.536	0.107
Arsenic	5.43	0.536	0.215
Barium	48.9	0.536	0.215
Beryllium	0.479J	0.536	0.0536
Boron	ND	5.36	2.68
Cadmium	0.167J	0.536	0.0536
Calcium	4040	21.5	10.7
Chromium	15.5	0.536	0.215
Cobalt	3.36	0.536	0.0536
Copper	5.47	0.536	0.215
Iron	18000	107	10.7
Lead	6.01	0.536	0.107
Magnesium	3290	10.7	5.36
Manganese	129	0.536	0.268
Molybdenum	0.676	0.536	0.0536
Nickel	6.03	0.536	0.215
Potassium	2050	107	32.2
Selenium	ND	0.536	0.215
Silver	ND	0.536	0.0536
Sodium	177	107	53.6
Strontium	19.4	0.536	0.268
Thallium	0.243J	0.429	0.0536
Tin	ND	10.7	5.36
Titanium	694	1.07	0.536
Vanadium	32.6	0.536	0.0536
Zinc	30.5	5.36	1.61
Lithium	11.8	2.15	1.07
Phosphorus	132	12.9	6.44
Zirconium	ND	5.36	2.68

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/12/12
Project     : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.    : 12F074                             Date Extracted: 06/20/12 10:30
Sample ID: SL-693-SA5C-SB-4.0-5.0             Date Analyzed: 06/21/12 16:18
Lab Samp ID: F074-13                           Dilution Factor: 0.966
Lab File ID: 98F10032                          Matrix          : SOIL
Ext Btch ID: IMF038S                            % Moisture     : 8.3
Calib. Ref.: 98F10028                          Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11300	105	12.6
Antimony	0.184J	0.527	0.105
Arsenic	3.66	0.527	0.211
Barium	81.4	0.527	0.211
Beryllium	0.484J	0.527	0.0527
Boron	ND	5.27	2.63
Cadmium	0.205J	0.527	0.0527
Calcium	3610	21.1	10.5
Chromium	14.3	0.527	0.211
Cobalt	4.67	0.527	0.0527
Copper	7.08	0.527	0.211
Iron	17100	105	10.5
Lead	5.07	0.527	0.105
Magnesium	3750	10.5	5.27
Manganese	217	0.527	0.263
Molybdenum	0.510J	0.527	0.0527
Nickel	7.99	0.527	0.211
Potassium	2500	105	31.6
Selenium	ND	0.527	0.211
Silver	ND	0.527	0.0527
Sodium	172	105	52.7
Strontium	20.6	0.527	0.263
Thallium	0.217J	0.421	0.0527
Tin	ND	10.5	5.27
Titanium	828	1.05	0.527
Vanadium	30.0	0.527	0.0527
Zinc	50.0	5.27	1.58
Lithium	17.0	2.11	1.05
Phosphorus	285	12.6	6.32
Zirconium	ND	5.27	2.63

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/12/12
Project     : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.    : 12F074                           Date Extracted: 06/20/12 10:30
Sample ID:  SL-693-SA5C-SB-9.0-10.0          Date Analyzed: 06/21/12 16:22
Lab Samp ID: F074-15                          Dilution Factor: 0.966
Lab File ID: 98F10033                         Matrix          : SOIL
Ext Btch ID: IMF038S                          % Moisture     : 9.3
Calib. Ref.: 98F10028                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12200	107	12.8
Antimony	0.193J	0.533	0.107
Arsenic	4.23	0.533	0.213
Barium	76.6	0.533	0.213
Beryllium	0.520J	0.533	0.0533
Boron	2.79J	5.33	2.66
Cadmium	0.222J	0.533	0.0533
Calcium	4260	21.3	10.7
Chromium	16.0	0.533	0.213
Cobalt	4.83	0.533	0.0533
Copper	7.75	0.533	0.213
Iron	17800	107	10.7
Lead	5.14	0.533	0.107
Magnesium	3730	10.7	5.33
Manganese	227	0.533	0.266
Molybdenum	0.603	0.533	0.0533
Nickel	8.94	0.533	0.213
Potassium	2550	107	32.0
Selenium	ND	0.533	0.213
Silver	ND	0.533	0.0533
Sodium	166	107	53.3
Strontium	23.6	0.533	0.266
Thallium	0.219J	0.426	0.0533
Tin	ND	10.7	5.33
Titanium	811	1.07	0.533
Vanadium	30.4	0.533	0.0533
Zinc	48.5	5.33	1.60
Lithium	16.6	2.13	1.07
Phosphorus	269	12.8	6.39
Zirconium	ND	5.33	2.66

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/12/12
Project     : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.    : 12F074                           Date Extracted: 06/20/12 10:30
Sample ID:  SL-687-SA5C-SB-4.0-5.0           Date Analyzed: 06/21/12 16:27
Lab Samp ID: F074-18                          Dilution Factor: 0.985
Lab File ID: 98F10034                        Matrix          : SOIL
Ext Btch ID: IMF038S                         % Moisture     : 8.0
Calib. Ref.: 98F10028                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15800	107	12.8
Antimony	0.229J	0.535	0.107
Arsenic	5.14	0.535	0.214
Barium	71.2	0.535	0.214
Beryllium	0.357J	0.535	0.0535
Boron	ND	5.35	2.68
Cadmium	0.0814J	0.535	0.0535
Calcium	2850	21.4	10.7
Chromium	16.2	0.535	0.214
Cobalt	2.72	0.535	0.0535
Copper	6.41	0.535	0.214
Iron	21100	107	10.7
Lead	5.92	0.535	0.107
Magnesium	3080	10.7	5.35
Manganese	87.4	0.535	0.268
Molybdenum	0.618	0.535	0.0535
Nickel	4.78	0.535	0.214
Potassium	1120	107	32.1
Selenium	ND	0.535	0.214
Silver	ND	0.535	0.0535
Sodium	489	107	53.5
Strontium	30.0	0.535	0.268
Thallium	0.190J	0.428	0.0535
Tin	ND	10.7	5.35
Titanium	648	1.07	0.535
Vanadium	32.7	0.535	0.0535
Zinc	29.7	5.35	1.61
Lithium	9.49	2.14	1.07
Phosphorus	88.6	12.8	6.42
Zirconium	ND	5.35	2.68

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/12/12
Project     : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.    : 12F074                           Date Extracted: 06/20/12 10:30
Sample ID:  SL-689-SA5C-SB-4.0-5.0           Date Analyzed: 06/21/12 16:32
Lab Samp ID: F074-20                          Dilution Factor: 0.980
Lab File ID: 98F10035                         Matrix          : SOIL
Ext Btch ID: IMF038S                          % Moisture     : 8.6
Calib. Ref.: 98F10028                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12600	107	12.9
Antimony	0.202J	0.536	0.107
Arsenic	4.48	0.536	0.214
Barium	88.7	0.536	0.214
Beryllium	0.544	0.536	0.0536
Boron	2.93J	5.36	2.68
Cadmium	0.225J	0.536	0.0536
Calcium	4360	21.4	10.7
Chromium	15.7	0.536	0.214
Cobalt	5.47	0.536	0.0536
Copper	7.63	0.536	0.214
Iron	18600	107	10.7
Lead	5.46	0.536	0.107
Magnesium	3820	10.7	5.36
Manganese	241	0.536	0.268
Molybdenum	0.531J	0.536	0.0536
Nickel	9.24	0.536	0.214
Potassium	2500	107	32.2
Selenium	ND	0.536	0.214
Silver	ND	0.536	0.0536
Sodium	151	107	53.6
Strontium	20.5	0.536	0.268
Thallium	0.232J	0.429	0.0536
Tin	ND	10.7	5.36
Titanium	872	1.07	0.536
Vanadium	31.5	0.536	0.0536
Zinc	54.0	5.36	1.61
Lithium	17.4	2.14	1.07
Phosphorus	272	12.9	6.43
Zirconium	ND	5.36	2.68

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.     : 12F074                           Date Extracted: 06/20/12 10:30
Sample ID   : SL-689-SA5C-SB-7.5-8.5          Date Analyzed: 06/21/12 16:36
Lab Samp ID : F074-22                          Dilution Factor: 0.957
Lab File ID : 98F10036                        Matrix         : SOIL
Ext Btch ID : IMF038S                         % Moisture    : 8.9
Calib. Ref. : 98F10028                       Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10900	105	12.6
Antimony	0.196J	0.525	0.105
Arsenic	3.93	0.525	0.210
Barium	65.9	0.525	0.210
Beryllium	0.447J	0.525	0.0525
Boron	ND	5.25	2.63
Cadmium	0.170J	0.525	0.0525
Calcium	5990	21.0	10.5
Chromium	14.7	0.525	0.210
Cobalt	3.90	0.525	0.0525
Copper	5.76	0.525	0.210
Iron	17100	105	10.5
Lead	4.71	0.525	0.105
Magnesium	3180	10.5	5.25
Manganese	181	0.525	0.263
Molybdenum	0.498J	0.525	0.0525
Nickel	7.04	0.525	0.210
Potassium	1960	105	31.5
Selenium	ND	0.525	0.210
Silver	ND	0.525	0.0525
Sodium	181	105	52.5
Strontium	20.9	0.525	0.263
Thallium	0.200J	0.420	0.0525
Tin	ND	10.5	5.25
Titanium	739	1.05	0.525
Vanadium	28.2	0.525	0.0525
Zinc	38.0	5.25	1.58
Lithium	13.3	2.10	1.05
Phosphorus	188	12.6	6.30
Zirconium	ND	5.25	2.63

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 06/12/12
Project      : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.     : 12F074                            Date Extracted: 06/20/12 10:30
Sample ID   : SL-688-SA5C-SB-9.0-10.0         Date Analyzed: 06/21/12 16:41
Lab Samp ID : F074-24                           Dilution Factor: 0.985
Lab File ID : 98F10037                          Matrix          : SOIL
Ext Btch ID : IMF038S                            % Moisture     : 10.8
Calib. Ref. : 98F10028                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	7120	110	13.3
Antimony	0.117J	0.552	0.110
Arsenic	3.83	0.552	0.221
Barium	33.9	0.552	0.221
Beryllium	0.349J	0.552	0.0552
Boron	ND	5.52	2.76
Cadmium	0.151J	0.552	0.0552
Calcium	748	22.1	11.0
Chromium	7.86	0.552	0.221
Cobalt	3.06	0.552	0.0552
Copper	2.85	0.552	0.221
Iron	11400	110	11.0
Lead	3.15	0.552	0.110
Magnesium	2040	11.0	5.52
Manganese	119	0.552	0.276
Molybdenum	0.239J	0.552	0.0552
Nickel	3.63	0.552	0.221
Potassium	1330	110	33.1
Selenium	ND	0.552	0.221
Silver	ND	0.552	0.0552
Sodium	90.7J	110	55.2
Strontium	8.18	0.552	0.276
Thallium	0.151J	0.442	0.0552
Tin	ND	11.0	5.52
Titanium	762	1.10	0.552
Vanadium	18.8	0.552	0.0552
Zinc	24.4	5.52	1.66
Lithium	9.46	2.21	1.10
Phosphorus	56.8	13.3	6.63
Zirconium	ND	5.52	2.76

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/12/12
Project     : SSFL PHASE 3                     Date Received: 06/12/12
SDG NO.    : 12F074                           Date Extracted: 06/20/12 10:30
Sample ID:  SL-688-SA5C-SB-4.0-5.0           Date Analyzed: 06/21/12 15:46
Lab Samp ID: F074-26                          Dilution Factor: 0.995
Lab File ID: 98F10025                         Matrix          : SOIL
Ext Btch ID: IMF038S                          % Moisture     : 10.6
Calib. Ref.: 98F10016                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15800	111	13.4
Antimony	0.294J	0.556	0.111
Arsenic	5.73	0.556	0.223
Barium	109	0.556	0.223
Beryllium	0.810	0.556	0.0556
Boron	ND	5.56	2.78
Cadmium	0.170J	0.556	0.0556
Calcium	2020	22.3	11.1
Chromium	18.1	0.556	0.223
Cobalt	6.40	0.556	0.0556
Copper	6.28	0.556	0.223
Iron	20800	111	11.1
Lead	6.73	0.556	0.111
Magnesium	3660	11.1	5.56
Manganese	193	0.556	0.278
Molybdenum	0.730	0.556	0.0556
Nickel	9.03	0.556	0.223
Potassium	1270	111	33.4
Selenium	ND	0.556	0.223
Silver	0.0625J	0.556	0.0556
Sodium	108J	111	55.6
Strontium	20.3	0.556	0.278
Thallium	0.201J	0.445	0.0556
Tin	ND	11.1	5.56
Titanium	913	1.11	0.556
Vanadium	39.8	0.556	0.0556
Zinc	37.8	5.56	1.67
Lithium	15.1	2.23	1.11
Phosphorus	134	13.4	6.68
Zirconium	ND	5.56	2.78

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 06/20/12
SDG NO.    : 12F074                           Date Extracted: 06/20/12 10:30
Sample ID  : MBLK1S                            Date Analyzed: 06/21/12 15:28
Lab Samp ID: IMF038SB                         Dilution Factor: 1
Lab File ID: 98F10021                        Matrix          : SOIL
Ext Btch ID: IMF038S                          % Moisture     : NA
Calib. Ref.: 98F10016                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F074  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF038SB IMF038SL IMF038SC  
LAB FILE ID: 98F10021 98F10019 98F10020  
DATIME EXTRACTD: 06/20/1210:30 06/20/1210:30 06/20/1210:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/21/1215:28 06/21/1215:19 06/21/1215:23 DATE RECEIVED: 06/20/12  
PREP. BATCH: IMF038S IMF038S IMF038S  
CALIB. REF: 98F10016 98F10016 98F10016

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2430	97	2500	2500	100	3	80-120	20
Antimony	ND	25.0	24.6	98	25.0	25.0	100	1	80-120	20
Arsenic	ND	25.0	23.7	95	25.0	24.1	96	2	80-120	20
Barium	ND	25.0	24.8	99	25.0	25.1	100	1	80-120	20
Beryllium	ND	25.0	24.5	98	25.0	25.1	101	3	80-120	20
Boron	ND	25.0	24.5	98	25.0	25.5	102	4	80-120	20
Cadmium	ND	25.0	24.3	97	25.0	24.7	99	2	80-120	20
Calcium	ND	2500	2560	102	2500	2610	104	2	80-120	20
Chromium	ND	25.0	24.3	97	25.0	24.8	99	2	80-120	20
Cobalt	ND	25.0	24.4	98	25.0	24.8	99	2	80-120	20
Copper	ND	25.0	24.1	96	25.0	24.6	99	2	80-120	20
Iron	ND	2500	2540	102	2500	2570	103	1	80-120	20
Lead	ND	25.0	24.2	97	25.0	24.8	99	2	80-120	20
Magnesium	ND	2500	2430	97	2500	2490	100	3	80-120	20
Manganese	ND	25.0	24.4	98	25.0	25.2	101	3	80-120	20
Molybdenum	ND	25.0	24.1	96	25.0	24.5	98	2	80-120	20
Nickel	ND	25.0	24.0	96	25.0	24.5	98	2	80-120	20
Potassium	ND	2500	2520	101	2500	2580	103	2	80-120	20
Selenium	ND	25.0	23.5	94	25.0	23.9	96	2	80-120	20
Silver	ND	25.0	24.4	98	25.0	24.8	99	2	80-120	20
Sodium	ND	2500	2430	97	2500	2470	99	1	80-120	20
Strontium	ND	25.0	24.8	99	25.0	25.4	102	2	80-120	20
Thallium	ND	25.0	24.0	96	25.0	24.6	98	2	80-120	20
Tin	ND	25.0	26.8	107	25.0	27.3	109	2	80-120	20
Titanium	ND	25.0	24.5	98	25.0	24.7	99	1	80-120	20
Vanadium	ND	25.0	23.9	95	25.0	24.4	98	2	80-120	20
Zinc	ND	50.0	46.7	93	50.0	47.8	96	2	80-120	20
Lithium	ND	25.0	24.7	99	25.0	25.4	102	3	80-120	20
Phosphorus	ND	250	230	92	250	236	94	3	80-120	20
Zirconium	ND	25.0	25.2	101	25.0	26.1	104	3	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F074  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 10.6  
DILT N FACTR: 0.995 0.980 0.971  
SAMPLE ID: SL-688-SA5C-SB-4.0-5.0  
CONTROL NO.: F074-26 F074-26M F074-26S  
LAB FILE ID: 98F10025 98F10022 98F10023  
DATIME EXTRACTD: 06/20/1210:30 06/20/1210:30 06/20/1210:30 DATE COLLECTED: 06/12/12  
DATIME ANALYZD: 06/21/1215:46 06/21/1215:32 06/21/1215:37 DATE RECEIVED: 06/12/12  
PREP. BATCH: IMF038S IMF038S IMF038S  
CALIB. REF: 98F10016 98F10016 98F10016

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	15800	2740	18700	105	2720	19300	129*	3	75-125	20
Antimony	0.294J	27.4	21.1	76	27.2	20.9	76	1	75-125	20
Arsenic	5.73	27.4	28.6	83	27.2	28.6	84	0	75-125	20
Barium	109	27.4	134	92	27.2	138	106	3	75-125	20
Beryllium	0.810	27.4	27.4	97	27.2	27.9	100	2	75-125	20
Boron	ND	27.4	26.0	95	27.2	26.6	98	2	75-125	20
Cadmium	0.170J	27.4	26.3	95	27.2	26.4	97	0	75-125	20
Calcium	2020	2740	4330	84	2720	4450	90	3	75-125	20
Chromium	18.1	27.4	41.4	85	27.2	41.5	86	0	75-125	20
Cobalt	6.40	27.4	30.3	87	27.2	31.4	92	4	75-125	20
Copper	6.28	27.4	29.4	84	27.2	29.9	87	2	75-125	20
Iron	20800	2740	21700	34*	2720	21900	41*	1	75-125	20
Lead	6.73	27.4	31.5	90	27.2	31.9	93	1	75-125	20
Magnesium	3660	2740	5920	83	2720	6020	87	2	75-125	20
Manganese	193	27.4	197	15*	27.2	216	83	9	75-125	20
Molybdenum	0.730	27.4	25.4	90	27.2	25.8	92	1	75-125	20
Nickel	9.03	27.4	32.3	85	27.2	32.9	88	2	75-125	20
Potassium	1270	2740	3790	92	2720	3870	96	2	75-125	20
Selenium	ND	27.4	24.1	88	27.2	24.5	90	2	75-125	20
Silver	0.0625J	27.4	26.0	95	27.2	26.5	97	2	75-125	20
Sodium	108J	2740	2510	88	2720	2570	91	2	75-125	20
Strontium	20.3	27.4	45.1	90	27.2	45.9	94	2	75-125	20
Thallium	0.201J	27.4	25.8	93	27.2	26.0	95	1	75-125	20
Tin	ND	27.4	30.4	111	27.2	30.8	113	1	75-125	20
Titanium	913	27.4	882	-114*	27.2	882	-113*	0	75-125	20
Vanadium	39.8	27.4	60.6	76	27.2	60.4	76	0	75-125	20
Zinc	37.8	54.8	83.4	83	54.3	84.5	86	1	75-125	20
Lithium	15.1	27.4	42.3	99	27.2	44.5	108	5	75-125	20
Phosphorus	134	274	325	70*	272	327	71*	1	75-125	20
Zirconium	ND	27.4	25.1	92	27.2	25.8	95	3	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F074  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 10.6  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-688-SA5C-SB-4.0-5.0  
CONTROL NO.: F074-26 F074-26A  
LAB FILE ID: 98F10025 98F10038  
DATIME EXTRACTD: 06/20/1210:30 06/20/1210:30 DATE COLLECTED: 06/12/12  
DATIME ANALYZD: 06/21/1215:46 06/21/1216:45 DATE RECEIVED: 06/12/12  
PREP. BATCH: IMF038S IMF038S  
CALIB. REF: 98F10016 98F10028

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	15800	2780	18500	97	75-125
Antimony	0.294J	27.8	27.1	96	75-125
Arsenic	5.73	27.8	30.3	88	75-125
Barium	109	27.8	140	112	75-125
Beryllium	0.810	27.8	27.2	95	75-125
Boron	ND	27.8	27.2	98	75-125
Cadmium	0.170J	27.8	26.5	95	75-125
Calcium	2020	2780	4790	100	75-125
Chromium	18.1	27.8	42.3	87	75-125
Cobalt	6.40	27.8	31.1	89	75-125
Copper	6.28	27.8	29.8	85	75-125
Iron	20800	2780	23300	90	75-125
Lead	6.73	27.8	32.1	91	75-125
Magnesium	3660	2780	6240	93	75-125
Manganese	193	27.8	215	80	75-125
Molybdenum	0.730	27.8	27.3	95	75-125
Nickel	9.03	27.8	32.7	85	75-125
Potassium	1270	2780	4170	104	75-125
Selenium	ND	27.8	25.0	90	75-125
Silver	0.0625J	27.8	26.2	94	75-125
Sodium	108J	2780	2710	94	75-125
Strontium	20.3	27.8	46.1	92	75-125
Thallium	0.201J	27.8	25.8	92	75-125
Tin	ND	27.8	30.9	111	75-125
Titanium	913	27.8	938	88	75-125
Vanadium	39.8	27.8	63.9	87	75-125
Zinc	37.8	55.6	85.2	85	75-125
Lithium	15.1	27.8	42.4	98	75-125
Phosphorus	134	278	375	86	75-125
Zirconium	ND	27.8	27.3	98	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F074  
 METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 10.6  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-688-SA5C-SB SL-688-SA5C-SB  
 EMAX SAMP ID: F074-26 F074-26J  
 LAB FILE ID: 98F10025 98F10026  
 DATE EXTRACTED: 06/20/1210:30 06/20/1210:30 DATE COLLECTED: 06/12/12  
 DATE ANALYZED: 06/21/1215:46 06/21/1215:50 DATE RECEIVED: 06/12/12  
 PREP. BATCH: IMF038S IMF038S  
 CALIB. REF: 98F10016 98F10016

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	15800	16700	6	10
Antimony	0.294J	ND	NA	10
Arsenic	5.73	6.06	6	10
Barium	109	105	3	10
Beryllium	0.810	0.778J	NA	10
Boron	ND	ND	0	10
Cadmium	0.170J	ND	NA	10
Calcium	2020	2180	8	10
Chromium	18.1	19.1	5	10
Cobalt	6.40	6.91	8	10
Copper	6.28	6.74	7	10
Iron	20800	22300	7	10
Lead	6.73	6.82	1	10
Magnesium	3660	3920	7	10
Manganese	193	209	8	10
Molybdenum	0.730	0.738J	NA	10
Nickel	9.03	9.64	7	10
Potassium	1270	1350	6	10
Selenium	ND	ND	0	10
Silver	0.0625J	ND	NA	10
Sodium	108J	ND	NA	10
Strontium	20.3	20.0	2	10
Thallium	0.201J	ND	NA	10
Tin	ND	ND	0	10
Titanium	913	921	1	10
Vanadium	39.8	41.5	4	10
Zinc	37.8	39.9	5	10
Lithium	15.1	14.9	1	10
Phosphorus	134	147	10	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F074

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGF022SB	ND	1	NA	0.100	0.0500	06/19/1218:11	06/19/1213:30	M47F014039	M47F014032	HGF022S	NA	06/19/12
LCS1S	HGF022SL	0.828	1	NA	0.100	0.0500	06/19/1218:13	06/19/1213:30	M47F014040	M47F014032	HGF022S	NA	06/19/12
LCD1S	HGF022SC	0.840	1	NA	0.100	0.0500	06/19/1218:15	06/19/1213:30	M47F014041	M47F014032	HGF022S	NA	06/19/12
SL-690-SA5C-SB-3.5-4.5AS	F074-01A	0.942	1.00	8.2	0.109	0.0545	06/19/1218:17	06/19/1213:30	M47F014042	M47F014032	HGF022S	06/12/12	06/12/12
SL-690-SA5C-SB-3.5-4.5	F074-01	ND	1.00	8.2	0.109	0.0545	06/19/1218:20	06/19/1213:30	M47F014043	M47F014032	HGF022S	06/12/12	06/12/12
SL-690-SA5C-SB-3.5-4.5DL	F074-01J	ND	5.00	8.2	0.545	0.272	06/19/1218:26	06/19/1213:30	M47F014046	M47F014044	HGF022S	06/12/12	06/12/12
SL-690-SA5C-SB-3.5-4.5MS	F074-01M	0.923	0.985	8.2	0.107	0.0536	06/19/1218:29	06/19/1213:30	M47F014047	M47F014044	HGF022S	06/12/12	06/12/12
SL-690-SA5C-SB-3.5-4.5MSD	F074-01S	0.931	1.00	8.2	0.109	0.0545	06/19/1218:31	06/19/1213:30	M47F014048	M47F014044	HGF022S	06/12/12	06/12/12
SL-692-SA5C-SB-5.0-6.0	F074-03	ND	0.992	8.2	0.108	0.0540	06/19/1218:33	06/19/1213:30	M47F014049	M47F014044	HGF022S	06/12/12	06/12/12
SL-693-SA5C-SB-4.0-5.0	F074-13	ND	0.990	8.3	0.108	0.0540	06/19/1218:35	06/19/1213:30	M47F014050	M47F014044	HGF022S	06/12/12	06/12/12
SL-693-SA5C-SB-9.0-10.0	F074-15	ND	0.987	9.3	0.109	0.0544	06/19/1218:38	06/19/1213:30	M47F014051	M47F014044	HGF022S	06/12/12	06/12/12
SL-687-SA5C-SB-4.0-5.0	F074-18	ND	0.987	8.0	0.107	0.0536	06/19/1218:40	06/19/1213:30	M47F014052	M47F014044	HGF022S	06/12/12	06/12/12
SL-689-SA5C-SB-4.0-5.0	F074-20	ND	0.997	8.6	0.109	0.0545	06/19/1218:42	06/19/1213:30	M47F014053	M47F014044	HGF022S	06/12/12	06/12/12
SL-689-SA5C-SB-7.5-8.5	F074-22	ND	1.00	8.9	0.110	0.0549	06/19/1218:44	06/19/1213:30	M47F014054	M47F014044	HGF022S	06/12/12	06/12/12
SL-688-SA5C-SB-9.0-10.0	F074-24	ND	0.985	10.8	0.110	0.0552	06/19/1218:46	06/19/1213:30	M47F014055	M47F014044	HGF022S	06/12/12	06/12/12
SL-688-SA5C-SB-4.0-5.0	F074-26	ND	0.998	10.6	0.112	0.0558	06/19/1218:54	06/19/1213:30	M47F014058	M47F014056	HGF022S	06/12/12	06/12/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F074  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF022SB HGF022SL HGF022SC  
LAB FILE ID: M47F014039 M47F014040 M47F014041  
DATIME EXTRCTD: 06/19/1213:30 06/19/1213:30 06/19/1213:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/19/1218:11 06/19/1218:13 06/19/1218:15 DATE RECEIVED: 06/19/12  
PREP. BATCH: HGF022S HGF022S HGF022S  
CALIB. REF: M47F014032 M47F014032 M47F014032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.828	99	.833	.84	101	1	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F074  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 8.2  
DILTN FACTR: 1.00 0.985 1.00  
SAMPLE ID: SL-690-SA5C-SB-3.5-4.5  
CONTROL NO.: F074-01 F074-01M F074-01S  
LAB FILE ID: M47F014043 M47F014047 M47F014048  
DATIME EXTRCTD: 06/19/1213:30 06/19/1213:30 06/19/1213:30 DATE COLLECTED: 06/12/12  
DATIME ANALYZD: 06/19/1218:20 06/19/1218:29 06/19/1218:31 DATE RECEIVED: 06/12/12  
PREP. BATCH: HGF022S HGF022S HGF022S  
CALIB. REF: M47F014032 M47F014044 M47F014044

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.894	.923	103	.907	.931	103	0	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F074  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 8.2  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-690-SA5C-SB-3.5-4.5  
CONTROL NO.: F074-01 F074-01A  
LAB FILE ID: M47F014043 M47F014042  
DATIME EXTRACTD: 06/19/1213:30 06/19/1213:30 DATE COLLECTED: 06/12/12  
DATIME ANALYZD: 06/19/1218:20 06/19/1218:17 DATE RECEIVED: 06/12/12  
PREP. BATCH: HGF022S HGF022S  
CALIB. REF: M47F014032 M47F014032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.907	.942	104	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F074  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 8.2  
 DILUTION FACTOR: 1.00 5.00  
 SAMPLE ID: SL-690-SA5C-SB-3.5- SL-690-SA5C-SB-3.5-  
 EMAX SAMP ID: F074-01 F074-01J  
 LAB FILE ID: M47F014043 M47F014046  
 DATE EXTRACTED: 06/19/1213:30 06/19/1213:30 DATE COLLECTED: 06/12/12  
 DATE ANALYZED: 06/19/1218:20 06/19/1218:26 DATE RECEIVED: 06/12/12  
 PREP. BATCH: HGF022S HGF022S  
 CALIB. REF: M47F014032 M47F014044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

## METHOD 9045D

PH

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F074  
 =====

Matrix : SOIL  
 Instrument ID : 53  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL	MDL	Analysis	Extraction	LFID	CAL REF	PREP BATCH	Collection	Received
			(pH Unit)	(pH Unit)	(pH Unit)		DATETIME	DATETIME				DATETIME	DATETIME
SL-690-SA5C-SB-3.5-4.5	F074-01	9.04	1	NA	NA	NA	06/13/1213:48	06/13/1212:51	12PHF014S01	12PHF014	PHF014S	06/12/1211:25	06/12/12
SL-690-SA5C-SB-3.5-4.5	DUPF074-01D	9.03	1	NA	NA	NA	06/13/1213:49	06/13/1212:51	12PHF014S02	12PHF014	PHF014S	06/12/1211:25	06/12/12
SL-692-SA5C-SB-5.0-6.0	F074-03	8.28	1	NA	NA	NA	06/13/1213:51	06/13/1212:51	12PHF014S03	12PHF014	PHF014S	06/12/1210:15	06/12/12
SL-693-SA5C-SB-4.0-5.0	F074-13	8.54	1	NA	NA	NA	06/13/1213:52	06/13/1212:51	12PHF014S04	12PHF014	PHF014S	06/12/1209:25	06/12/12
SL-693-SA5C-SB-9.0-10.0	F074-15	8.56	1	NA	NA	NA	06/13/1213:54	06/13/1212:51	12PHF014S05	12PHF014	PHF014S	06/12/1209:35	06/12/12
SL-687-SA5C-SB-4.0-5.0	F074-18	8.47	1	NA	NA	NA	06/13/1213:55	06/13/1212:51	12PHF014S06	12PHF014	PHF014S	06/12/1214:10	06/12/12
SL-689-SA5C-SB-4.0-5.0	F074-20	8.46	1	NA	NA	NA	06/13/1213:57	06/13/1212:51	12PHF014S07	12PHF014	PHF014S	06/12/1213:25	06/12/12
SL-689-SA5C-SB-7.5-8.5	F074-22	9.41	1	NA	NA	NA	06/13/1213:58	06/13/1212:51	12PHF014S08	12PHF014	PHF014S	06/12/1213:45	06/12/12
SL-688-SA5C-SB-9.0-10.0	F074-24	7.08	1	NA	NA	NA	06/13/1214:03	06/13/1212:51	12PHF014S09	12PHF014	PHF014S	06/12/1215:00	06/12/12
SL-688-SA5C-SB-4.0-5.0	F074-26	6.98	1	NA	NA	NA	06/13/1214:05	06/13/1212:51	12PHF014S10	12PHF014	PHF014S	06/12/1214:50	06/12/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

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BATCH NO.: 12F074                      DATE RECEIVED: 06/12/12  
SAMPLE ID: SL-690-SA5C-SB-3.5-4.5DUP      DATE EXTRACTED: 06/13/1212:51  
CONTROL NO.: F074-01D                      DATE ANALYZED: 06/13/1213:49

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	9.04	9.03	0.01	+/-0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 17:01
Sample ID    : SL-683-SA5C-SB-4.0-5.0          Date Analyzed: 06/30/12 14:02
Lab Samp ID  : F093-01                           Dilution Factor: 1
Lab File ID  : RFH221                             Matrix          : SOIL
Ext Btch ID  : SVF051S                           % Moisture     : 6.2
Calib. Ref.  : RFH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	ND	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	212	355.3	59.7	40-130
2-FLUOROBIPHENYL	199	355.3	56.0	45-130
TERPHENYL-D14	292	355.3	82.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 17:01
Sample ID:   SL-683-SA5C-SB-7.0-8.0           Date Analyzed: 06/30/12 14:21
Lab Samp ID: F093-03                           Dilution Factor: 1
Lab File ID: RFH222                             Matrix          : SOIL
Ext Btch ID: SVF051S                           % Moisture      : 9.7
Calib. Ref.: RFH072                             Instrument ID   : T-OE7
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	192	369.1	52.1	40-130
2-FLUOROBIPHENYL	170	369.1	46.1	45-130
TERPHENYL-D14	268	369.1	72.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 17:01
Sample ID:   SL-684-SA5C-SB-2.5-3.5           Date Analyzed: 06/30/12 14:40
Lab Samp ID: F093-05                           Dilution Factor: 1
Lab File ID: RFH223                            Matrix          : SOIL
Ext Btch ID: SVF051S                           % Moisture     : 6.6
Calib. Ref.: RFH072                            Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	138	356.9	38.6*	40-130
2-FLUOROBIPHENYL	127	356.9	35.6*	45-130
TERPHENYL-D14	213	356.9	59.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 17:01
Sample ID:   SL-685-SA5C-SB-4.0-5.0           Date Analyzed: 06/30/12 14:59
Lab Samp ID: F093-07                           Dilution Factor: 1
Lab File ID: RFH224                            Matrix          : SOIL
Ext Btch ID: SVF051S                          % Moisture     : 7.4
Calib. Ref.: RFH072                            Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	166	359.9	46.1	40-130
2-FLUOROBIPHENYL	164	359.9	45.5	45-130
TERPHENYL-D14	272	359.9	75.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 17:01
Sample ID    : SL-685-SA5C-SB-7.0-8.0          Date Analyzed: 06/30/12 15:18
Lab Samp ID  : F093-09                          Dilution Factor: 1
Lab File ID  : RFH225                           Matrix          : SOIL
Ext Btch ID  : SVF051S                          % Moisture     : 11.8
Calib. Ref.  : RFH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	181	377.9	48.0	40-130
2-FLUOROBIPHENYL	148	377.9	39.1*	45-130
TERPHENYL-D14	266	377.9	70.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 17:01
Sample ID:   SL-722-SA5C-SB-6.0-7.0           Date Analyzed: 06/30/12 15:38
Lab Samp ID: F093-11                           Dilution Factor: 1
Lab File ID: RFH226                             Matrix          : SOIL
Ext Btch ID: SVF051S                            % Moisture      : 9.2
Calib. Ref.: RFH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	177	367.1	48.2	40-130
2-FLUOROBIPHENYL	175	367.1	47.6	45-130
TERPHENYL-D14	294	367.1	80.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 17:01
Sample ID:   SL-720-SA5C-SB-4.5-5.5           Date Analyzed: 06/30/12 15:57
Lab Samp ID: F093-16                           Dilution Factor: 1
Lab File ID: RFH227                             Matrix          : SOIL
Ext Btch ID: SVF051S                            % Moisture     : 11.0
Calib. Ref.: RFH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	229	374.5	61.1	40-130
2-FLUOROBIPHENYL	205	374.5	54.7	45-130
TERPHENYL-D14	297	374.5	79.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 17:01
Sample ID    : MBLK1S                           Date Analyzed: 06/30/12 12:08
Lab Samp ID  : SVF051SB                         Dilution Factor: 1
Lab File ID  : RFH215                           Matrix          : SOIL
Ext Btch ID  : SVF051S                          % Moisture     : NA
Calib. Ref.  : RFH072                           Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	226	333.3	67.8	40-130
2-FLUOROBIPHENYL	219	333.3	65.7	45-130
TERPHENYL-D14	303	333.3	90.9	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F093  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF051SB SVF051SL SVF051SC  
LAB FILE ID: RFH215 RFH216 RFH217  
DATE EXTRACTED: 06/25/1217:01 06/25/1217:01 06/25/1217:01 DATE COLLECTED: NA  
DATE ANALYZED: 06/30/1212:08 06/30/1212:27 06/30/1212:46 DATE RECEIVED: 06/25/12  
PREP. BATCH: SVF051S SVF051S SVF051S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	266	80	333	245	74	8	10-130	50
Acenaphthylene	ND	333	282	85	333	260	78	8	20-130	50
Anthracene	ND	333	263	79	333	240	72	9	20-130	50
Benzo (a) anthracene	ND	333	292	88	333	261	78	11	30-130	50
Benzo (a) pyrene	ND	333	304	91	333	269	81	12	30-130	50
Benzo (b) fluoranthene	ND	333	323	97	333	287	86	12	40-130	50
Benzo (k) fluoranthene	ND	333	310	93	333	274	82	12	30-140	50
Benzo (g, h, i) perylene	ND	333	323	97	333	285	86	12	30-140	50
Chrysene	ND	333	285	86	333	253	76	12	30-140	50
Dibenzo (a, h) anthracene	ND	333	333	100	333	294	88	12	40-140	50
Fluoranthene	ND	333	306	92	333	273	82	11	30-130	50
Fluorene	ND	333	289	87	333	267	80	8	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	332	100	333	294	88	12	20-160	50
Naphthalene	ND	333	241	72	333	223	67	8	10-130	50
Phenanthrene	ND	333	270	81	333	245	74	10	20-130	50
2-Methylnaphthalene	ND	333	259	78	333	238	71	8	30-150	50
1-Methylnaphthalene	ND	333	261	78	333	239	72	9	30-150	50
N-Nitrosodimethylamine	ND	333	227	68	333	209	63	8	30-150	50
Pyrene	ND	333	296	89	333	264	79	11	20-150	50
Azobenzene	ND	333	242	73	333	223	67	8	30-150	50
Benzo (e) pyrene	ND	333	271	81	333	269	81	1	30-150	50
Biphenyl	ND	333	202	60	333	209	63	4	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	218	65	333	226	68	40-130
2-Fluorobiphenyl	333	216	65	333	221	66	45-130
Terphenyl-d14	333	283	85	333	280	84	45-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/15/12 18:01
Sample ID:   SL-683-SA5C-SB-5.0                 Date Analyzed: 06/15/12 18:01
Lab Samp ID: F093-02                             Dilution Factor: 1.02
Lab File ID: EF15006A                           Matrix          : SOIL
Ext Btch ID: GMF008S                             % Moisture     : 5.9
Calib. Ref.: EF15002A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.54
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.97	2.168	91.0 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/14/12 11:18

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/15/12 18:44
Sample ID:   SL-683-SA5C-SB-8.0                 Date Analyzed: 06/15/12 18:44
Lab Samp ID: F093-04                             Dilution Factor: 1
Lab File ID: EF15007A                            Matrix          : SOIL
Ext Btch ID: GMF008S                             % Moisture     : 17.4
Calib. Ref.: EF15002A                            Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.61
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.15	2.421	88.7 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/14/12 11:18

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                       Date Received: 06/13/12
Batch No.    : 12F093                             Date Extracted: 06/15/12 19:27
Sample ID:   SL-684-SA5C-SB-3.5                   Date Analyzed: 06/15/12 19:27
Lab Samp ID: F093-06                               Dilution Factor: 1.06
Lab File ID: EF15008A                             Matrix          : SOIL
Ext Btch ID: GMF008S                              % Moisture     : 6.4
Calib. Ref.: EF15002A                             Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.57

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	2.12	2.265	93.5	70-140

RL : Reporting Limit  
 Methanol Extraction: 06/14/12 11:18

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/13/12
Project     : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.   : 12F093                           Date Extracted: 06/15/12 20:11
Sample ID:  SL-685-SA5C-SB-5.0                Date Analyzed: 06/15/12 20:11
Lab Samp ID: F093-08                           Dilution Factor: 1.01
Lab File ID: EF15009A                           Matrix          : SOIL
Ext Btch ID: GMF008S                            % Moisture      : 11.8
Calib. Ref.: EF15002A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.57
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	2.09	2.290	91.4 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/14/12 11:18

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/13/12
Project    : SSFL PHASE 3                       Date Received: 06/13/12
Batch No.  : 12F093                             Date Extracted: 06/15/12 20:54
Sample ID: SL-685-SA5C-SB-8.0                   Date Analyzed: 06/15/12 20:54
Lab Samp ID: F093-10                             Dilution Factor: 1.42
Lab File ID: EF15010A                           Matrix          : SOIL
Ext Btch ID: GMF008S                             % Moisture     : 10.7
Calib. Ref.: EF15002A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.6	0.80

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	2.97	3.180	93.4	70-140

RL : Reporting Limit  
 Methanol Extraction: 06/14/12 11:18

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                       Date Received: 06/13/12
Batch No.    : 12F093                             Date Extracted: 06/15/12 21:37
Sample ID:   SL-722-SA5C-SB-7.0                   Date Analyzed: 06/15/12 21:37
Lab Samp ID: F093-12                               Dilution Factor: 0.88
Lab File ID: EF15011A                             Matrix          : SOIL
Ext Btch ID: GMF008S                              % Moisture     : 9.3
Calib. Ref.: EF15002A                             Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.97	0.49

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.77	1.940	91.2	70-140

RL : Reporting Limit  
 Methanol Extraction: 06/14/12 11:18

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/15/12 22:19
Sample ID:   SL-720-SA5C-SB-5.5                 Date Analyzed: 06/15/12 22:19
Lab Samp ID: F093-15                             Dilution Factor: 1.06
Lab File ID: EF15012A                           Matrix          : SOIL
Ext Btch ID: GMF008S                             % Moisture     : 14.6
Calib. Ref.: EF15002A                           Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.62
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	2.25	2.482	90.8 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/14/12 11:18

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/14/12
Batch No.  : 12F093                             Date Extracted: 06/14/12 23:17
Sample ID  : MBLK1S                             Date Analyzed: 06/14/12 23:17
Lab Samp ID: GMF008SB                           Dilution Factor: 1
Lab File ID: EF13054A                           Matrix          : SOIL
Ext Btch ID: GMF008S                             % Moisture     : NA
Calib. Ref.: EF13046A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.83	2.000	91.6 60-130

RL : Reporting Limit  
 Methanol Extraction: 06/14/12 11:18

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F093  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF008SB GMF008SL GMF008SC  
LAB FILE ID: EF13054A EF13055A EF13056A  
DATE EXTRACTED: 06/14/1223:17 06/15/1200:00 06/15/1200:43 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1223:17 06/15/1200:00 06/15/1200:43 DATE RECEIVED: 06/15/12  
PREP. BATCH: GMF008S GMF008S GMF008S  
CALIB. REF: EF13046A EF13046A EF13046A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	21.0	84	25.0	20.7	83	1	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.23	111	2.00	2.21	111	60-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date   Collected: 06/13/12
Project    : SSFL PHASE 3                       Date   Received: 06/13/12
Batch No.  : 12F093                             Date   Extracted: 06/14/12 21:50
Sample ID  : TB-061312                          Date   Analyzed: 06/14/12 21:50
Lab Samp ID: F093-18                             Dilution Factor: 1
Lab File ID: EF13052A                           Matrix      : WATER
Ext Btch ID: VG39F08                             % Moisture  : NA
Calib. Ref.: EF13046A                           Instrument ID: GCT039
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	12J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	35.1	40.00	87.8 60-140

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/14/12
Batch No.  : 12F093                             Date Extracted: 06/14/12 05:22
Sample ID  : MBLK1W                             Date Analyzed: 06/14/12 05:22
Lab Samp ID: VG39F08B                          Dilution Factor: 1
Lab File ID: EF13029A                          Matrix          : WATER
Ext Btch ID: VG39F08                            % Moisture     : NA
Calib. Ref.: EF13023A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	31.3	40.00	78.2 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F093  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F08B VG39F08L VG39F08C  
LAB FILE ID: EF13029A EF13030A EF13031A  
DATE EXTRACTED: 06/14/1205:22 06/14/1206:06 06/14/1206:49 DATE COLLECTED: NA  
DATE ANALYZED: 06/14/1205:22 06/14/1206:06 06/14/1206:49 DATE RECEIVED: 06/14/12  
PREP. BATCH: VG39F08 VG39F08 VG39F08  
CALIB. REF: EF13023A EF13023A EF13023A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	432	86	500	443	89	3	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	41.4	104	40.0	41.5	104	60-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/19/12 10:51
Sample ID:   SL-683-SA5C-SB-4.0-5.0           Date Analyzed: 06/21/12 15:26
Lab Samp ID: F093-01                           Dilution Factor: 1
Lab File ID: LF20088A                          Matrix          : SOIL
Ext Btch ID: DSF020S                            % Moisture     : 6.2
Calib. Ref.: LF20085A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	ND	5.3	2.7
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.7	106.6	72.0	50-150
HEXACOSANE	27.8	26.65	104	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/19/12 10:51
Sample ID:   SL-683-SA5C-SB-7.0-8.0           Date Analyzed: 06/21/12 15:43
Lab Samp ID: F093-03                           Dilution Factor: 1
Lab File ID: LF20089A                          Matrix          : SOIL
Ext Btch ID: DSF020S                            % Moisture     : 9.7
Calib. Ref.: LF20085A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.0	110.7	68.6	50-150
HEXACOSANE	28.5	27.69	103	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/19/12 10:51
Sample ID:   SL-684-SA5C-SB-2.5-3.5           Date Analyzed: 06/21/12 16:33
Lab Samp ID: F093-05                           Dilution Factor: 1
Lab File ID: LF20092A                          Matrix          : SOIL
Ext Btch ID: DSF020S                           % Moisture     : 6.6
Calib. Ref.: LF20085A                          Instrument ID  : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.5	107.1	72.4	50-150
HEXACOSANE	28.2	26.77	105	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/19/12 10:51
Sample ID:   SL-685-SA5C-SB-4.0-5.0           Date Analyzed: 06/22/12 18:44
Lab Samp ID: F093-07                           Dilution Factor: 1
Lab File ID: LF21090A                          Matrix          : SOIL
Ext Btch ID: DSF020S                            % Moisture     : 7.4
Calib. Ref.: LF21087A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.3	108.0	73.4	50-150
HEXACOSANE	29.0	27.00	107	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                       Date Received: 06/13/12
Batch No.    : 12F093                             Date Extracted: 06/19/12 10:51
Sample ID:   SL-685-SA5C-SB-7.0-8.0             Date Analyzed: 06/21/12 16:50
Lab Samp ID: F093-09                             Dilution Factor: 1
Lab File ID: LF20093A                           Matrix          : SOIL
Ext Btch ID: DSF020S                             % Moisture     : 11.8
Calib. Ref.: LF20085A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	86.9	113.4	76.6	50-150
HEXACOSANE	31.0	28.34	109	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                       Date Received: 06/13/12
Batch No.    : 12F093                             Date Extracted: 06/19/12 10:51
Sample ID:   SL-722-SA5C-SB-6.0-7.0             Date Analyzed: 06/22/12 19:01
Lab Samp ID: F093-11                             Dilution Factor: 1
Lab File ID: LF21091A                           Matrix          : SOIL
Ext Btch ID: DSF020S                             % Moisture     : 9.2
Calib. Ref.: LF21087A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	82.0	110.1	74.5	50-150
HEXACOSANE	29.7	27.53	108	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                       Date Received: 06/13/12
Batch No.    : 12F093                             Date Extracted: 06/19/12 10:51
Sample ID:   SL-720-SA5C-SB-4.5-5.5              Date Analyzed: 06/22/12 18:27
Lab Samp ID: F093-16                             Dilution Factor: 1
Lab File ID: LF21089A                            Matrix          : SOIL
Ext Btch ID: DSF020S                             % Moisture     : 11.0
Calib. Ref.: LF21087A                            Instrument ID  : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.5	112.4	68.1	50-150
HEXACOSANE	28.6	28.09	102	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F093                           Date Extracted: 06/19/12 10:51
Sample ID    : MBLK1S                           Date Analyzed: 06/21/12 10:33
Lab Samp ID  : DSF020SB                         Dilution Factor: 1
Lab File ID  : LF20075A                         Matrix          : SOIL
Ext Btch ID  : DSF020S                          % Moisture     : NA
Calib. Ref.  : LF20073A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.7	100.0	76.7	50-150
HEXACOSANE	26.7	25.00	107	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F093  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF020SB DSF020SL DSF020SC  
LAB FILE ID: LF20075A LF20076A LF20077A  
DATE EXTRACTED: 06/19/1210:51 06/19/1210:51 06/19/1210:51 DATE COLLECTED: NA  
DATE ANALYZED: 06/21/1210:33 06/21/1210:50 06/21/1211:07 DATE RECEIVED: 06/19/12  
PREP. BATCH: DSF020S DSF020S DSF020S  
CALIB. REF: LF20073A LF20073A LF20073A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	397	79	500	375	75	6	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	83.1	83	100	81.6	82	50-150
Hexacosane	25.0	27.8	111	25.0	26.1	104	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F093  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 9.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-683-SA5C-SB-7.0-8.0  
LAB SAMP ID: F093-03 F093-03M F093-03S  
LAB FILE ID: LF20089A LF20090A LF20091A  
DATE EXTRACTED: 06/19/1210:51 06/19/1210:51 06/19/1210:51 DATE COLLECTED: 06/13/12  
DATE ANALYZED: 06/21/1215:43 06/21/1216:00 06/21/1216:17 DATE RECEIVED: 06/13/12  
PREP. BATCH: DSF020S DSF020S DSF020S  
CALIB. REF: LF20085A LF20085A LF20085A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	554	412	74	554	416	75	1	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	111	86.5	78	111	84.3	76	50-150
Hexacosane	27.7	29.3	106	27.7	29.2	105	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 16:30
Sample ID:   SL-683-SA5C-SB-4.0-5.0            Date Analyzed: 06/26/12 16:20
Lab Samp ID: F093-01                             Dilution Factor: 1
Lab File ID: SF26012A                           Matrix          : SOIL
Ext Btch ID: CPF028S                             % Moisture     : 6.2
Calib. Ref.: SF26006A                           Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.69)   17.29	14.21	(103)   122*	45-120
TETRACHLORO-M-XYLENE	(13.21)   11.48	14.21	(92.9)   80.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 16:30
Sample ID    : SL-683-SA5C-SB-7.0-8.0          Date Analyzed: 06/26/12 16:54
Lab Samp ID  : F093-03                           Dilution Factor: 1
Lab File ID  : SF26013A                          Matrix          : SOIL
Ext Btch ID  : CPF028S                            % Moisture     : 9.7
Calib. Ref.  : SF26006A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.52)   14.86	14.76	(84.8)   101	45-120
TETRACHLORO-M-XYLENE	(11.44)   11.76	14.76	(77.5)   79.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 16:30
Sample ID    : SL-684-SA5C-SB-2.5-3.5          Date Analyzed: 06/26/12 17:29
Lab Samp ID  : F093-05                           Dilution Factor: 1
Lab File ID  : SF26014A                         Matrix          : SOIL
Ext Btch ID  : CPF028S                          % Moisture     : 6.6
Calib. Ref.  : SF26006A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(8.322)   10.08	14.27	(58.3)   70.6	45-120
TETRACHLORO-M-XYLENE	(6.708)   7.537	14.27	(47.0)   52.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 16:30
Sample ID    : SL-685-SA5C-SB-4.0-5.0          Date Analyzed: 06/26/12 19:11
Lab Samp ID  : F093-07                           Dilution Factor: 1
Lab File ID  : SF26017A                          Matrix          : SOIL
Ext Btch ID  : CPF028S                           % Moisture     : 7.4
Calib. Ref.  : SF26006A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(11.88)   14.58	14.40	(82.6)   101	45-120
TETRACHLORO-M-XYLENE	(12.44)   12.12	14.40	(86.4)   84.2	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 16:30
Sample ID    : SL-685-SA5C-SB-7.0-8.0          Date Analyzed: 06/26/12 19:46
Lab Samp ID  : F093-09                           Dilution Factor: 1
Lab File ID  : SF26018A                          Matrix          : SOIL
Ext Btch ID  : CPF028S                            % Moisture     : 11.8
Calib. Ref.  : SF26006A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(15.82)   18.62	15.11	(105)   123*	45-120
TETRACHLORO-M-XYLENE	(14.55)   13.49	15.11	(96.3)   89.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 16:30
Sample ID    : SL-722-SA5C-SB-6.0-7.0          Date Analyzed: 06/26/12 20:20
Lab Samp ID  : F093-11                          Dilution Factor: 1
Lab File ID  : SF26019A                         Matrix          : SOIL
Ext Btch ID  : CPF028S                          % Moisture     : 9.2
Calib. Ref.  : SF26006A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(12.73)   16.61	14.68	(86.7)   113	45-120
TETRACHLORO-M-XYLENE	(15.69)   13.92	14.68	(107)   94.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 16:30
Sample ID    : SL-718-SA5C-SB-4.0-5.0          Date Analyzed: 06/26/12 20:54
Lab Samp ID  : F093-13                           Dilution Factor: 1
Lab File ID  : SF26020A                          Matrix          : SOIL
Ext Btch ID  : CPF028S                           % Moisture     : 3.5
Calib. Ref.  : SF26006A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	41	21   21	
AROCLOR 5442	(ND)   ND	41	21   21	
AROCLOR 5460	(ND)   ND	41	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.29)   17.65	13.81	(89.0)   128*	45-120
TETRACHLORO-M-XYLENE	(14.64)   10.96	13.81	(106)   79.4	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
Batch No.    : 12F093                           Date Extracted: 06/25/12 16:30
Sample ID:   SL-718-SA5C-SB-8.0-9.0           Date Analyzed: 06/26/12 21:28
Lab Samp ID: F093-14                           Dilution Factor: 1
Lab File ID: SF26021A                          Matrix          : SOIL
Ext Btch ID: CPF028S                            % Moisture     : 10.2
Calib. Ref.: SF26006A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.55)   18.48	14.84	(98.0)   124*	45-120
TETRACHLORO-M-XYLENE	(13.94)   13.03	14.84	(93.9)   87.8	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                       Date Received: 06/13/12
Batch No.    : 12F093                             Date Extracted: 06/25/12 16:30
Sample ID    : SL-720-SA5C-SB-4.5-5.5           Date Analyzed: 06/26/12 22:03
Lab Samp ID  : F093-16                           Dilution Factor: 1
Lab File ID  : SF26022A                          Matrix          : SOIL
Ext Btch ID  : CPF028S                            % Moisture     : 11.0
Calib. Ref.  : SF26006A                          Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.36)   18.18	14.98	(103)   121*	45-120
TETRACHLORO-M-XYLENE	(13.53)   12.96	14.98	(90.3)   86.5	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 06/13/12
Project    : SSFL PHASE 3                       Date Received: 06/13/12
Batch No.  : 12F093                             Date Extracted: 06/25/12 16:30
Sample ID  : SL-717-SA5C-SB-6.0-7.0           Date Analyzed: 06/26/12 22:37
Lab Samp ID: F093-17                           Dilution Factor: 1
Lab File ID: SF26023A                          Matrix          : SOIL
Ext Btch ID: CPF028S                            % Moisture     : 8.7
Calib. Ref.: SF26006A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.50)   17.32	14.60	(99.3)   119	45-120
TETRACHLORO-M-XYLENE	(11.89)   11.31	14.60	(81.4)   77.5	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/25/12
Batch No.  : 12F093                             Date Extracted: 06/25/12 16:30
Sample ID  : MBLK1S                             Date Analyzed: 06/26/12 14:37
Lab Samp ID: 60F028SB                           Dilution Factor: 1
Lab File ID: SF26009A                           Matrix          : SOIL
Ext Btch ID: CPF028S                            % Moisture     : NA
Calib. Ref.: SF26006A                           Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.82)   16.80	13.33	(104)   126*	45-120
TETRACHLORO-M-XYLENE	(13.14)   11.76	13.33	(98.5)   88.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F093  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F028SB 60F028SL 60F028SC  
LAB FILE ID: SF26009A SF26010A SF26011A  
DATE EXTRACTED: 06/25/1216:30 06/25/1216:30 06/25/1216:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1214:37 06/26/1215:11 06/26/1215:46 DATE RECEIVED: 06/25/12  
PREP. BATCH: CPF028S CPF028S CPF028S  
CALIB. REF: SF26006A SF26006A SF26006A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(151)   207	(91)   124	167	(140)   157	(84)   94	(8)   27	50-130	50
Aroclor 1260	(ND)   ND	167	(166)   192	(100)   115	167	(162)   191	(97)   115	(2)   1	60-150	50
Aroclor 5460	(ND)   ND	83.3	(113)   112	(136)   134	83.3	(112)   112	(134)   134	(1)   0	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(14.46)   16.57	(108)   124*	13.33	(14.38)   16.58	(108)   124*	45-120
Tetrachloro-m-xylene	13.33	(13.42)   11.80	(101)   88.5	13.33	(13.24)   11.87	(99.3)   89.0	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F093  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 6.6  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-684-SA5C-SB-2.5-3.5  
LAB SAMP ID: F093-05 F093-05M F093-05S  
LAB FILE ID: SF26014A SF26015A SF26016A  
DATE EXTRACTED: 06/25/1216:30 06/25/1216:30 06/25/1216:30 DATE COLLECTED: 06/13/12  
DATE ANALYZED: 06/26/1217:29 06/26/1218:03 06/26/1218:37 DATE RECEIVED: 06/13/12  
PREP. BATCH: CPF028S CPF028S CPF028S  
CALIB. REF: SF26006A SF26006A SF26006A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	178	(167)   176	(94)   99	178	(148)   166	(83)   93	(12)   6	20-160	50
Aroclor 1260	(ND)   ND	178	(178)   212	(100)   119	178	(170)   202	(95)   113	(5)   5	20-160	50
Aroclor 5460	(ND)   ND	89.2	(128)   128	(143)   143	89.2	(125)   124	(140)   139	(2)   3	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.27	(15.57)   19.20	(109)   135*	14.27	(14.43)   17.00	(101)   119	45-120
Tetrachloro-m-xylene	14.27	(17.04)   13.88	(119)   97.3	14.27	(12.87)   12.47	(90.2)   87.4	10-160

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/13/12
Project     : SSFL PHASE 3                     Date Received: 06/13/12
SDG NO.    : 12F093                           Date Extracted: 06/18/12 11:20
Sample ID:  SL-683-SA5C-SB-4.0-5.0           Date Analyzed: 06/21/12 17:58
Lab Samp ID: F093-01                          Dilution Factor: 0.976
Lab File ID: 98F10054                         Matrix          : SOIL
Ext Btch ID: IMF035S                          % Moisture     : 6.2
Calib. Ref.: 98F10052                         Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11600	104	12.5
Antimony	0.236J	0.520	0.104
Arsenic	3.77	0.520	0.208
Barium	66.1	0.520	0.208
Beryllium	0.599	0.520	0.0520
Boron	ND	5.20	2.60
Cadmium	0.131J	0.520	0.0520
Calcium	1530	20.8	10.4
Chromium	14.7	0.520	0.208
Cobalt	3.57	0.520	0.0520
Copper	5.97	0.520	0.208
Iron	18800	104	10.4
Lead	4.55	0.520	0.104
Magnesium	3600	10.4	5.20
Manganese	164	0.520	0.260
Molybdenum	0.550	0.520	0.0520
Nickel	6.27	0.520	0.208
Potassium	2130	104	31.2
Selenium	ND	0.520	0.208
Silver	ND	0.520	0.0520
Sodium	136	104	52.0
Strontium	16.8	0.520	0.260
Thallium	0.318J	0.416	0.0520
Tin	ND	10.4	5.20
Titanium	997	1.04	0.520
Vanadium	29.8	0.520	0.0520
Zinc	44.3	5.20	1.56
Lithium	14.3	2.08	1.04
Phosphorus	139	12.5	6.24
Zirconium	ND	5.20	2.60

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/13/12
Project    : SSFL PHASE 3                     Date Received: 06/13/12
SDG NO.    : 12F093                           Date Extracted: 06/18/12 11:20
Sample ID: SL-683-SA5C-SB-7.0-8.0           Date Analyzed: 06/21/12 18:03
Lab Samp ID: F093-03                         Dilution Factor: 0.980
Lab File ID: 98F10055                       Matrix          : SOIL
Ext Btch ID: IMF035S                        % Moisture     : 9.7
Calib. Ref.: 98F10052                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15000	109	13.0
Antimony	0.281J	0.543	0.109
Arsenic	6.31	0.543	0.217
Barium	71.7	0.543	0.217
Beryllium	0.697	0.543	0.0543
Boron	ND	5.43	2.71
Cadmium	0.117J	0.543	0.0543
Calcium	1570	21.7	10.9
Chromium	15.6	0.543	0.217
Cobalt	14.3	0.543	0.0543
Copper	6.84	0.543	0.217
Iron	20100	109	10.9
Lead	5.93	0.543	0.109
Magnesium	3080	10.9	5.43
Manganese	156	0.543	0.271
Molybdenum	0.911	0.543	0.0543
Nickel	7.01	0.543	0.217
Potassium	1970	109	32.6
Selenium	ND	0.543	0.217
Silver	ND	0.543	0.0543
Sodium	128	109	54.3
Strontium	16.2	0.543	0.271
Thallium	0.715	0.434	0.0543
Tin	ND	10.9	5.43
Titanium	980	1.09	0.543
Vanadium	36.7	0.543	0.0543
Zinc	36.9	5.43	1.63
Lithium	14.1	2.17	1.09
Phosphorus	149	13.0	6.51
Zirconium	ND	5.43	2.71

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
SDG NO.     : 12F093                            Date Extracted: 06/18/12 11:20
Sample ID   : SL-684-SA5C-SB-2.5-3.5          Date Analyzed: 06/21/12 18:49
Lab Samp ID : F093-05                           Dilution Factor: 0.976
Lab File ID : 98F10065                         Matrix          : SOIL
Ext Btch ID : IMF035S                          % Moisture     : 6.6
Calib. Ref. : 98F10063                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13900	104	12.5
Antimony	0.229J	0.522	0.104
Arsenic	6.76	0.522	0.209
Barium	98.7	0.522	0.209
Beryllium	0.533	0.522	0.0522
Boron	ND	5.22	2.61
Cadmium	0.177J	0.522	0.0522
Calcium	5100	20.9	10.4
Chromium	19.1	0.522	0.209
Cobalt	4.25	0.522	0.0522
Copper	8.19	0.522	0.209
Iron	21400	104	10.4
Lead	7.23	0.522	0.104
Magnesium	4520	10.4	5.22
Manganese	150	0.522	0.261
Molybdenum	0.358J	0.522	0.0522
Nickel	8.24	0.522	0.209
Potassium	2090	104	31.3
Selenium	ND	0.522	0.209
Silver	ND	0.522	0.0522
Sodium	226	104	52.2
Strontium	25.2	0.522	0.261
Thallium	0.261J	0.418	0.0522
Tin	ND	10.4	5.22
Titanium	872	1.04	0.522
Vanadium	38.2	0.522	0.0522
Zinc	42.7	5.22	1.57
Lithium	19.4	2.09	1.04
Phosphorus	137	12.5	6.27
Zirconium	ND	5.22	2.61

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
SDG NO.     : 12F093                           Date Extracted: 06/18/12 11:20
Sample ID   : SL-685-SA5C-SB-4.0-5.0          Date Analyzed: 06/21/12 18:53
Lab Samp ID : F093-07                           Dilution Factor: 0.952
Lab File ID : 98F10066                         Matrix          : SOIL
Ext Btch ID : IMF035S                          % Moisture     : 7.4
Calib. Ref. : 98F10063                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12000	103	12.3
Antimony	0.269J	0.514	0.103
Arsenic	5.37	0.514	0.206
Barium	120	0.514	0.206
Beryllium	0.556	0.514	0.0514
Boron	ND	5.14	2.57
Cadmium	0.153J	0.514	0.0514
Calcium	2100	20.6	10.3
Chromium	15.8	0.514	0.206
Cobalt	4.25	0.514	0.0514
Copper	6.68	0.514	0.206
Iron	18400	103	10.3
Lead	6.74	0.514	0.103
Magnesium	3710	10.3	5.14
Manganese	181	0.514	0.257
Molybdenum	0.888	0.514	0.0514
Nickel	7.42	0.514	0.206
Potassium	2050	103	30.8
Selenium	ND	0.514	0.206
Silver	ND	0.514	0.0514
Sodium	163	103	51.4
Strontium	20.9	0.514	0.257
Thallium	0.231J	0.411	0.0514
Tin	ND	10.3	5.14
Titanium	796	1.03	0.514
Vanadium	31.3	0.514	0.0514
Zinc	40.2	5.14	1.54
Lithium	15.1	2.06	1.03
Phosphorus	137	12.3	6.17
Zirconium	ND	5.14	2.57

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/13/12
Project    : SSFL PHASE 3                     Date Received: 06/13/12
SDG NO.    : 12F093                           Date Extracted: 06/18/12 11:20
Sample ID  : SL-685-SA5C-SB-7.0-8.0          Date Analyzed: 06/21/12 18:17
Lab Samp ID: F093-09                           Dilution Factor: 0.985
Lab File ID: 98F10058                          Matrix          : SOIL
Ext Btch ID: IMF035S                            % Moisture     : 11.8
Calib. Ref.: 98F10052                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12200	112	13.4
Antimony	0.205J	0.558	0.112
Arsenic	6.90	0.558	0.223
Barium	63.3	0.558	0.223
Beryllium	0.604	0.558	0.0558
Boron	ND	5.58	2.79
Cadmium	0.144J	0.558	0.0558
Calcium	1890	22.3	11.2
Chromium	17.0	0.558	0.223
Cobalt	4.22	0.558	0.0558
Copper	7.72	0.558	0.223
Iron	19800	112	11.2
Lead	6.53	0.558	0.112
Magnesium	4180	11.2	5.58
Manganese	140	0.558	0.279
Molybdenum	0.408J	0.558	0.0558
Nickel	6.68	0.558	0.223
Potassium	1640	112	33.5
Selenium	ND	0.558	0.223
Silver	ND	0.558	0.0558
Sodium	272	112	55.8
Strontium	21.2	0.558	0.279
Thallium	0.227J	0.447	0.0558
Tin	ND	11.2	5.58
Titanium	931	1.12	0.558
Vanadium	34.1	0.558	0.0558
Zinc	41.4	5.58	1.68
Lithium	17.5	2.23	1.12
Phosphorus	102	13.4	6.70
Zirconium	ND	5.58	2.79

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/13/12
Project    : SSFL PHASE 3                     Date Received: 06/13/12
SDG NO.    : 12F093                           Date Extracted: 06/18/12 11:20
Sample ID: SL-722-SA5C-SB-6.0-7.0           Date Analyzed: 06/21/12 18:21
Lab Samp ID: F093-11                          Dilution Factor: 0.980
Lab File ID: 98F10059                         Matrix          : SOIL
Ext Btch ID: IMF035S                           % Moisture     : 9.2
Calib. Ref.: 98F10052                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11100	108	13.0
Antimony	0.172J	0.540	0.108
Arsenic	4.38	0.540	0.216
Barium	83.6	0.540	0.216
Beryllium	0.510J	0.540	0.0540
Boron	ND	5.40	2.70
Cadmium	0.229J	0.540	0.0540
Calcium	3300	21.6	10.8
Chromium	18.0	0.540	0.216
Cobalt	5.68	0.540	0.0540
Copper	9.55	0.540	0.216
Iron	20100	108	10.8
Lead	5.47	0.540	0.108
Magnesium	4330	10.8	5.40
Manganese	266	0.540	0.270
Molybdenum	0.415J	0.540	0.0540
Nickel	11.0	0.540	0.216
Potassium	2130	108	32.4
Selenium	ND	0.540	0.216
Silver	ND	0.540	0.0540
Sodium	90.2J	108	54.0
Strontium	16.4	0.540	0.270
Thallium	0.217J	0.432	0.0540
Tin	ND	10.8	5.40
Titanium	880	1.08	0.540
Vanadium	31.8	0.540	0.0540
Zinc	58.7	5.40	1.62
Lithium	26.2	2.16	1.08
Phosphorus	320	13.0	6.48
Zirconium	ND	5.40	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
SDG NO.     : 12F093                            Date Extracted: 06/18/12 11:20
Sample ID   : SL-718-SA5C-SB-4.0-5.0          Date Analyzed: 06/21/12 18:58
Lab Samp ID : F093-13                           Dilution Factor: 0.962
Lab File ID : 98F10067                          Matrix          : SOIL
Ext Btch ID : IMF035S                           % Moisture     : 3.5
Calib. Ref. : 98F10063                          Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	5480	99.7	12.0
Antimony	0.178J	0.498	0.0997
Arsenic	2.83	0.498	0.199
Barium	56.0	0.498	0.199
Beryllium	0.212J	0.498	0.0498
Boron	ND	4.98	2.49
Cadmium	0.206J	0.498	0.0498
Calcium	7250	19.9	9.97
Chromium	16.9	0.498	0.199
Cobalt	3.19	0.498	0.0498
Copper	6.01	0.498	0.199
Iron	10200	99.7	9.97
Lead	2.61	0.498	0.0997
Magnesium	2070	9.97	4.98
Manganese	139	0.498	0.249
Molybdenum	2.76	0.498	0.0498
Nickel	8.36	0.498	0.199
Potassium	1270	99.7	29.9
Selenium	0.681	0.498	0.199
Silver	0.390J	0.498	0.0498
Sodium	91.1J	99.7	49.8
Strontium	26.7	0.498	0.249
Thallium	0.0843J	0.399	0.0498
Tin	ND	9.97	4.98
Titanium	371	0.997	0.498
Vanadium	19.3	0.498	0.0498
Zinc	29.3	4.98	1.50
Lithium	6.59	1.99	0.997
Phosphorus	404	12.0	5.98
Zirconium	ND	4.98	2.49

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/13/12
Project    : SSFL PHASE 3                     Date Received: 06/13/12
SDG NO.    : 12F093                           Date Extracted: 06/18/12 11:20
Sample ID  : SL-718-SA5C-SB-8.0-9.0          Date Analyzed: 06/21/12 18:26
Lab Samp ID: F093-14                           Dilution Factor: 0.971
Lab File ID: 98F10060                           Matrix          : SOIL
Ext Btch ID: IMF035S                            % Moisture     : 10.2
Calib. Ref.: 98F10052                           Instrument ID  : T-198
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12900	108	13.0
Antimony	0.231J	0.541	0.108
Arsenic	6.31	0.541	0.216
Barium	99.3	0.541	0.216
Beryllium	0.633	0.541	0.0541
Boron	ND	5.41	2.70
Cadmium	0.285J	0.541	0.0541
Calcium	5220	21.6	10.8
Chromium	23.0	0.541	0.216
Cobalt	7.52	0.541	0.0541
Copper	14.5	0.541	0.216
Iron	23200	108	10.8
Lead	7.55	0.541	0.108
Magnesium	5320	10.8	5.41
Manganese	343	0.541	0.270
Molybdenum	0.942	0.541	0.0541
Nickel	14.3	0.541	0.216
Potassium	2420	108	32.4
Selenium	ND	0.541	0.216
Silver	ND	0.541	0.0541
Sodium	179	108	54.1
Strontium	24.3	0.541	0.270
Thallium	0.259J	0.433	0.0541
Tin	ND	10.8	5.41
Titanium	946	1.08	0.541
Vanadium	38.7	0.541	0.0541
Zinc	66.6	5.41	1.62
Lithium	30.3	2.16	1.08
Phosphorus	488	13.0	6.49
Zirconium	ND	5.41	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/13/12
SDG NO.     : 12F093                            Date Extracted: 06/18/12 11:20
Sample ID   : SL-720-SA5C-SB-4.5-5.5          Date Analyzed: 06/21/12 18:31
Lab Samp ID : F093-16                           Dilution Factor: 0.995
Lab File ID : 98F10061                          Matrix          : SOIL
Ext Btch ID : IMF035S                            % Moisture     : 11.0
Calib. Ref. : 98F10052                          Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15100	112	13.4
Antimony	0.375J	0.559	0.112
Arsenic	10.2	0.559	0.224
Barium	141	0.559	0.224
Beryllium	1.06	0.559	0.0559
Boron	ND	5.59	2.79
Cadmium	0.441J	0.559	0.0559
Calcium	7300	22.4	11.2
Chromium	26.6	0.559	0.224
Cobalt	9.60	0.559	0.0559
Copper	18.7	0.559	0.224
Iron	28900	112	11.2
Lead	8.73	0.559	0.112
Magnesium	6610	11.2	5.59
Manganese	505	0.559	0.279
Molybdenum	0.469J	0.559	0.0559
Nickel	28.4	0.559	0.224
Potassium	2190	112	33.5
Selenium	ND	0.559	0.224
Silver	0.107J	0.559	0.0559
Sodium	191	112	55.9
Strontium	33.0	0.559	0.279
Thallium	0.367J	0.447	0.0559
Tin	ND	11.2	5.59
Titanium	1050	1.12	0.559
Vanadium	45.0	0.559	0.0559
Zinc	76.6	5.59	1.68
Lithium	41.7	2.24	1.12
Phosphorus	665	13.4	6.71
Zirconium	ND	5.59	2.79

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/13/12
Project     : SSFL PHASE 3                     Date Received: 06/13/12
SDG NO.    : 12F093                           Date Extracted: 06/18/12 11:20
Sample ID:  SL-717-SA5C-SB-6.0-7.0           Date Analyzed: 06/21/12 17:31
Lab Samp ID: F093-17                          Dilution Factor: 0.971
Lab File ID: 98F10048                        Matrix          : SOIL
Ext Btch ID: IMF035S                         % Moisture     : 8.7
Calib. Ref.: 98F10040                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15000	106	12.8
Antimony	0.327J	0.532	0.106
Arsenic	9.54	0.532	0.213
Barium	136	0.532	0.213
Beryllium	0.838	0.532	0.0532
Boron	ND	5.32	2.66
Cadmium	0.257J	0.532	0.0532
Calcium	5350	21.3	10.6
Chromium	27.6	0.532	0.213
Cobalt	10.8	0.532	0.0532
Copper	20.4	0.532	0.213
Iron	27900	106	10.6
Lead	10.3	0.532	0.106
Magnesium	7000	10.6	5.32
Manganese	317	0.532	0.266
Molybdenum	0.483J	0.532	0.0532
Nickel	19.1	0.532	0.213
Potassium	2120	106	31.9
Selenium	ND	0.532	0.213
Silver	ND	0.532	0.0532
Sodium	154	106	53.2
Strontium	32.1	0.532	0.266
Thallium	0.316J	0.425	0.0532
Tin	ND	10.6	5.32
Titanium	1110	1.06	0.532
Vanadium	46.7	0.532	0.0532
Zinc	83.0	5.32	1.60
Lithium	42.8	2.13	1.06
Phosphorus	589	12.8	6.38
Zirconium	ND	5.32	2.66

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/18/12
SDG NO.    : 12F093                           Date Extracted: 06/18/12 11:20
Sample ID: MBLK1S                             Date Analyzed: 06/21/12 17:04
Lab Samp ID: IMF035SB                         Dilution Factor: 1
Lab File ID: 98F10042                        Matrix          : SOIL
Ext Btch ID: IMF035S                          % Moisture     : NA
Calib. Ref.: 98F10040                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F093  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF035SB IMF035SL IMF035SC  
LAB FILE ID: 98F10042 98F10043 98F10044  
DATIME EXTRACTD: 06/18/1211:20 06/18/1211:20 06/18/1211:20 DATE COLLECTED: NA  
DATIME ANALYZD: 06/21/1217:04 06/21/1217:08 06/21/1217:13 DATE RECEIVED: 06/18/12  
PREP. BATCH: IMF035S IMF035S IMF035S  
CALIB. REF: 98F10040 98F10040 98F10040

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2460	99	2500	2480	99	1	80-120	20
Antimony	ND	25.0	25.2	101	25.0	24.9	100	1	80-120	20
Arsenic	ND	25.0	24.5	98	25.0	24.2	97	1	80-120	20
Barium	ND	25.0	25.5	102	25.0	25.3	101	1	80-120	20
Beryllium	ND	25.0	25.1	100	25.0	24.8	99	1	80-120	20
Boron	ND	25.0	25.0	100	25.0	24.9	100	0	80-120	20
Cadmium	ND	25.0	24.9	100	25.0	24.6	98	1	80-120	20
Calcium	ND	2500	2590	104	2500	2580	103	1	80-120	20
Chromium	ND	25.0	24.4	98	25.0	24.3	97	1	80-120	20
Cobalt	ND	25.0	24.9	99	25.0	24.8	99	0	80-120	20
Copper	ND	25.0	24.2	97	25.0	23.9	95	1	80-120	20
Iron	ND	2500	2550	102	2500	2550	102	0	80-120	20
Lead	ND	25.0	24.8	99	25.0	24.3	97	2	80-120	20
Magnesium	ND	2500	2440	98	2500	2450	98	1	80-120	20
Manganese	ND	25.0	25.4	101	25.0	24.9	100	2	80-120	20
Molybdenum	ND	25.0	24.9	99	25.0	24.7	99	1	80-120	20
Nickel	ND	25.0	24.2	97	25.0	23.9	96	1	80-120	20
Potassium	ND	2500	2610	104	2500	2580	103	1	80-120	20
Selenium	ND	25.0	23.7	95	25.0	23.5	94	1	80-120	20
Silver	ND	25.0	25.1	100	25.0	24.9	99	1	80-120	20
Sodium	ND	2500	2440	98	2500	2440	98	0	80-120	20
Strontium	ND	25.0	24.8	99	25.0	24.9	99	0	80-120	20
Thallium	ND	25.0	24.3	97	25.0	24.2	97	1	80-120	20
Tin	ND	25.0	27.4	110	25.0	27.1	109	1	80-120	20
Titanium	ND	25.0	25.1	100	25.0	24.9	100	1	80-120	20
Vanadium	ND	25.0	24.2	97	25.0	23.8	95	1	80-120	20
Zinc	ND	50.0	47.4	95	50.0	47.0	94	1	80-120	20
Lithium	ND	25.0	25.4	102	25.0	25.1	101	1	80-120	20
Phosphorus	ND	250	236	94	250	238	95	1	80-120	20
Zirconium	ND	25.0	25.1	100	25.0	25.3	101	1	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F093  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 8.7  
DILTN FACTR: 0.971 0.990 0.980  
SAMPLE ID: SL-717-SA5C-SB-6.0-7.0  
CONTROL NO.: F093-17 F093-17M F093-17S  
LAB FILE ID: 98F10048 98F10045 98F10046  
DATIME EXTRACTD: 06/18/1211:20 06/18/1211:20 06/18/1211:20 DATE COLLECTED: 06/13/12  
DATIME ANALYZD: 06/21/1217:31 06/21/1217:17 06/21/1217:22 DATE RECEIVED: 06/13/12  
PREP. BATCH: IMF035S IMF035S IMF035S  
CALIB. REF: 98F10040 98F10040 98F10040

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	15000	2710	17800	103	2680	18100	115	2	75-125	20
Antimony	0.327J	27.1	21.1	77	26.8	21.4	78	1	75-125	20
Arsenic	9.54	27.1	35.1	94	26.8	33.6	90	4	75-125	20
Barium	136	27.1	169	120	26.8	183	176*	8	75-125	20
Beryllium	0.838	27.1	28.8	103	26.8	28.2	102	2	75-125	20
Boron	ND	27.1	27.8	103	26.8	27.0	101	3	75-125	20
Cadmium	0.257J	27.1	27.2	100	26.8	26.7	99	2	75-125	20
Calcium	5350	2710	8280	108	2680	8440	115	2	75-125	20
Chromium	27.6	27.1	52.6	92	26.8	52.6	93	0	75-125	20
Cobalt	10.8	27.1	34.0	86	26.8	33.8	86	1	75-125	20
Copper	20.4	27.1	43.6	86	26.8	44.3	89	2	75-125	20
Iron	27900	2710	31100	120	2680	31100	121	0	75-125	20
Lead	10.3	27.1	37.1	99	26.8	36.6	98	1	75-125	20
Magnesium	7000	2710	9560	94	2680	9630	98	1	75-125	20
Manganese	317	27.1	336	71*	26.8	349	119	4	75-125	20
Molybdenum	0.483J	27.1	27.1	98	26.8	26.5	97	2	75-125	20
Nickel	19.1	27.1	42.1	85	26.8	42.1	86	0	75-125	20
Potassium	2120	2710	4890	102	2680	4790	99	2	75-125	20
Selenium	ND	27.1	25.3	94	26.8	24.3	90	4	75-125	20
Silver	ND	27.1	26.8	99	26.8	26.2	97	3	75-125	20
Sodium	154	2710	2550	88	2680	2510	88	2	75-125	20
Strontium	32.1	27.1	59.0	99	26.8	58.6	99	1	75-125	20
Thallium	0.316J	27.1	26.1	95	26.8	25.3	93	3	75-125	20
Tin	ND	27.1	31.5	116	26.8	30.5	114	3	75-125	20
Titanium	1110	27.1	1180	236*	26.8	1100	-54*	7	75-125	20
Vanadium	46.7	27.1	71.9	93	26.8	71.1	91	1	75-125	20
Zinc	83.0	54.2	132	91	53.7	131	90	1	75-125	20
Lithium	42.8	27.1	73.0	112	26.8	72.4	110	1	75-125	20
Phosphorus	589	271	801	78	268	805	80	0	75-125	20
Zirconium	ND	27.1	27.7	102	26.8	25.6	95	8	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F093  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 8.7  
DILTN FACTR: 0.971 0.971  
SAMPLE ID: SL-717-SA5C-SB-6.0-7.0  
CONTROL NO.: F093-17 F093-17A  
LAB FILE ID: 98F10048 98F10047  
DATIME EXTRACTD: 06/18/1211:20 06/18/1211:20 DATE COLLECTED: 06/13/12  
DATIME ANALYZD: 06/21/1217:31 06/21/1217:26 DATE RECEIVED: 06/13/12  
PREP. BATCH: IMF035S IMF035S  
CALIB. REF: 98F10040 98F10040

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	15000	2660	17500	91	75-125
Antimony	0.327J	26.6	26.7	99	75-125
Arsenic	9.54	26.6	33.1	89	75-125
Barium	136	26.6	164	106	75-125
Beryllium	0.838	26.6	27.3	99	75-125
Boron	ND	26.6	27.1	102	75-125
Cadmium	0.257J	26.6	25.9	97	75-125
Calcium	5350	2660	7910	96	75-125
Chromium	27.6	26.6	50.5	86	75-125
Cobalt	10.8	26.6	33.8	86	75-125
Copper	20.4	26.6	42.4	83	75-125
Iron	27900	2660	30200	89	75-125
Lead	10.3	26.6	35.6	95	75-125
Magnesium	7000	2660	9400	90	75-125
Manganese	317	26.6	334	66*	75-125
Molybdenum	0.483J	26.6	26.5	98	75-125
Nickel	19.1	26.6	41.1	83	75-125
Potassium	2120	2660	4880	104	75-125
Selenium	ND	26.6	24.9	94	75-125
Silver	ND	26.6	25.5	96	75-125
Sodium	154	2660	2530	89	75-125
Strontium	32.1	26.6	56.1	90	75-125
Thallium	0.316J	26.6	25.1	93	75-125
Tin	ND	26.6	29.7	112	75-125
Titanium	1110	26.6	1120	26*	75-125
Vanadium	46.7	26.6	69.7	87	75-125
Zinc	83.0	53.2	129	87	75-125
Lithium	42.8	26.6	69.3	100	75-125
Phosphorus	589	266	815	85	75-125
Zirconium	ND	26.6	26.4	99	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F093  
 METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 8.7  
 DILUTION FACTOR: 0.971 4.85  
 SAMPLE ID: SL-717-SA5C-SB SL-717-SA5C-SB  
 EMAX SAMP ID: F093-17 F093-17J  
 LAB FILE ID: 98F10048 98F10049  
 DATE EXTRACTED: 06/18/1211:20 06/18/1211:20 DATE COLLECTED: 06/13/12  
 DATE ANALYZED: 06/21/1217:31 06/21/1217:35 DATE RECEIVED: 06/13/12  
 PREP. BATCH: IMF035S IMF035S  
 CALIB. REF: 98F10040 98F10040

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	15000	16300	9	10
Antimony	0.327J	ND	NA	10
Arsenic	9.54	10.2	7	10
Barium	136	130	5	10
Beryllium	0.838	0.848J	NA	10
Boron	ND	ND	0	10
Cadmium	0.257J	0.279J	NA	10
Calcium	5350	6000	12*	10
Chromium	27.6	29.9	8	10
Cobalt	10.8	11.9	10	10
Copper	20.4	23.4	14*	10
Iron	27900	31500	13*	10
Lead	10.3	10.7	4	10
Magnesium	7000	7640	9	10
Manganese	317	349	10	10
Molybdenum	0.483J	0.465J	NA	10
Nickel	19.1	21.3	12*	10
Potassium	2120	2330	10	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	154	ND	NA	10
Strontium	32.1	31.8	1	10
Thallium	0.316J	0.320J	NA	10
Tin	ND	ND	0	10
Titanium	1110	1190	7	10
Vanadium	46.7	50.1	7	10
Zinc	83.0	89.1	7	10
Lithium	42.8	40.0	6	10
Phosphorus	589	598	2	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F093

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGF022SB	ND	1	NA	0.100	0.0500	06/19/1218:11	06/19/1213:30	M47F014039	M47F014032	HGF022S	NA	06/19/12
LCS1S	HGF022SL	0.828	1	NA	0.100	0.0500	06/19/1218:13	06/19/1213:30	M47F014040	M47F014032	HGF022S	NA	06/19/12
LCD1S	HGF022SC	0.840	1	NA	0.100	0.0500	06/19/1218:15	06/19/1213:30	M47F014041	M47F014032	HGF022S	NA	06/19/12
SL-683-SA5C-SB-4.0-5.0	F093-01	ND	1.01	6.2	0.108	0.0538	06/19/1218:56	06/19/1213:30	M47F014059	M47F014056	HGF022S	06/13/12	06/13/12
SL-683-SA5C-SB-7.0-8.0	F093-03	ND	0.998	9.7	0.111	0.0553	06/19/1218:58	06/19/1213:30	M47F014060	M47F014056	HGF022S	06/13/12	06/13/12
SL-684-SA5C-SB-2.5-3.5	F093-05	ND	0.987	6.6	0.106	0.0528	06/19/1219:00	06/19/1213:30	M47F014061	M47F014056	HGF022S	06/13/12	06/13/12
SL-685-SA5C-SB-4.0-5.0	F093-07	ND	0.980	7.4	0.106	0.0529	06/19/1219:02	06/19/1213:30	M47F014062	M47F014056	HGF022S	06/13/12	06/13/12
SL-685-SA5C-SB-7.0-8.0	F093-09	ND	0.990	11.8	0.112	0.0561	06/19/1219:04	06/19/1213:30	M47F014063	M47F014056	HGF022S	06/13/12	06/13/12
SL-722-SA5C-SB-6.0-7.0	F093-11	ND	0.998	9.2	0.110	0.0550	06/19/1219:06	06/19/1213:30	M47F014064	M47F014056	HGF022S	06/13/12	06/13/12
SL-718-SA5C-SB-4.0-5.0	F093-13	ND	0.988	3.5	0.102	0.0512	06/19/1219:08	06/19/1213:30	M47F014065	M47F014056	HGF022S	06/13/12	06/13/12
SL-718-SA5C-SB-8.0-9.0	F093-14	ND	1.00	10.2	0.111	0.0557	06/19/1219:11	06/19/1213:30	M47F014066	M47F014056	HGF022S	06/13/12	06/13/12
SL-720-SA5C-SB-4.5-5.5	F093-16	ND	1.00	11.0	0.112	0.0562	06/19/1219:13	06/19/1213:30	M47F014067	M47F014056	HGF022S	06/13/12	06/13/12
SL-717-SA5C-SB-6.0-7.0	F093-17	ND	1.00	8.7	0.110	0.0548	06/19/1219:19	06/19/1213:30	M47F014070	M47F014068	HGF022S	06/13/12	06/13/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F093  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF022SB HGF022SL HGF022SC  
LAB FILE ID: M47F014039 M47F014040 M47F014041  
DATIME EXTRCTD: 06/19/1213:30 06/19/1213:30 06/19/1213:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/19/1218:11 06/19/1218:13 06/19/1218:15 DATE RECEIVED: 06/19/12  
PREP. BATCH: HGF022S HGF022S HGF022S  
CALIB. REF: M47F014032 M47F014032 M47F014032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.828	99	.833	.84	101	1	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F093  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 8.2  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-690-SA5C-SB-3.5-4.5  
CONTROL NO.: F074-01 F074-01A  
LAB FILE ID: M47F014043 M47F014042  
DATIME EXTRACTD: 06/19/1213:30 06/19/1213:30 DATE COLLECTED: 06/12/12  
DATIME ANALYZD: 06/19/1218:20 06/19/1218:17 DATE RECEIVED: 06/12/12  
PREP. BATCH: HGF022S HGF022S  
CALIB. REF: M47F014032 M47F014032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.907	.942	104	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F093  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	8.2
DILUTION FACTOR:	1.00	5.00		
SAMPLE ID:	SL-690-SA5C-SB-3.5-	SL-690-SA5C-SB-3.5-		
EMAX SAMP ID:	F074-01	F074-01J		
LAB FILE ID:	M47F014043	M47F014046		
DATE EXTRACTED:	06/19/1213:30	06/19/1213:30	DATE COLLECTED:	06/12/12
DATE ANALYZED:	06/19/1218:20	06/19/1218:26	DATE RECEIVED:	06/12/12
PREP. BATCH:	HGF022S	HGF022S		
CALIB. REF:	M47F014032	M47F014044		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 9045D  
PH

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F093

Matrix : SOIL  
Instrument ID : 53

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	RL			MDL	Analysis DATETIME	Extraction		CAL REF	PREP BATCH	Collection		Received DATETIME
			DLF	MOIST	(pH Unit)			(pH Unit)	DATETIME			LFID	DATETIME	
SL-683-SA5C-SB-4.0-5.0	F093-01	8.01	1	NA	NA	NA	06/14/1216:57	06/14/1212:26	PHF01501	PHF015S	PHF015S	06/13/1209:31	06/13/12	
SL-683-SA5C-SB-4.0-5.0DUP	F093-01D	8.07	1	NA	NA	NA	06/14/1216:59	06/14/1212:26	PHF01502	PHF015S	PHF015S	06/13/1209:31	06/13/12	
SL-683-SA5C-SB-7.0-8.0	F093-03	7.69	1	NA	NA	NA	06/14/1217:01	06/14/1212:26	PHF01503	PHF015S	PHF015S	06/13/1209:45	06/13/12	
SL-684-SA5C-SB-2.5-3.5	F093-05	8.32	1	NA	NA	NA	06/14/1217:02	06/14/1212:26	PHF01504	PHF015S	PHF015S	06/13/1208:18	06/13/12	
SL-685-SA5C-SB-4.0-5.0	F093-07	8.20	1	NA	NA	NA	06/14/1217:05	06/14/1212:26	PHF01505	PHF015S	PHF015S	06/13/1209:00	06/13/12	
SL-685-SA5C-SB-7.0-8.0	F093-09	8.33	1	NA	NA	NA	06/14/1217:08	06/14/1212:26	PHF01506	PHF015S	PHF015S	06/13/1208:48	06/13/12	
SL-722-SA5C-SB-6.0-7.0	F093-11	8.25	1	NA	NA	NA	06/14/1217:10	06/14/1212:26	PHF01507	PHF015S	PHF015S	06/13/1214:18	06/13/12	
SL-718-SA5C-SB-4.0-5.0	F093-13	8.27	1	NA	NA	NA	06/14/1217:16	06/14/1212:26	PHF01508	PHF015S	PHF015S	06/13/1213:08	06/13/12	
SL-718-SA5C-SB-8.0-9.0	F093-14	8.45	1	NA	NA	NA	06/14/1217:19	06/14/1212:26	PHF01509	PHF015S	PHF015S	06/13/1213:10	06/13/12	
SL-720-SA5C-SB-4.5-5.5	F093-16	8.33	1	NA	NA	NA	06/14/1217:24	06/14/1212:26	PHF01510	PHF015S	PHF015S	06/13/1212:37	06/13/12	
SL-717-SA5C-SB-6.0-7.0	F093-17	8.13	1	NA	NA	NA	06/14/1217:28	06/14/1212:26	PHF01511	PHF015S	PHF015S	06/13/1214:45	06/13/12	

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

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BATCH NO.:	12F093	DATE RECEIVED:	06/13/12
SAMPLE ID:	SL-683-SA5C-SB-4.0-5.0DUP	DATE EXTRACTED:	06/14/12 12:26
CONTROL NO.:	F093-01D	DATE ANALYZED:	06/14/12 16:59

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	8.01	8.07	-0.06	+/-0.1

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/19/12 15:00
Sample ID    : EB-061412                        Date Analyzed: 06/29/12 23:25
Lab Samp ID  : F102-01W                         Dilution Factor: 1.03
Lab File ID  : RFH202                           Matrix          : WATER
Ext Btch ID  : SVF039W                          % Moisture     : NA
Calib. Ref.  : RFH072                           Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.21	0.10
ACENAPHTHYLENE	ND	0.21	0.10
ANTHRACENE	ND	0.21	0.10
BENZO (A) ANTHRACENE	ND	0.21	0.10
BENZO (A) PYRENE	ND	0.21	0.10
BENZO (B) FLUORANTHENE	ND	0.21	0.10
BENZO (K) FLUORANTHENE	ND	0.21	0.10
BENZO (G, H, I) PERYLENE	ND	0.21	0.10
CHRYSENE	ND	0.21	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.21	0.10
FLUORANTHENE	ND	0.21	0.10
FLUORENE	ND	0.21	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.21	0.10
NAPHTHALENE	ND	0.21	0.10
PHENANTHRENE	ND	0.21	0.10
2-METHYLNAPHTHALENE	ND	0.21	0.10
1-METHYLNAPHTHALENE	ND	0.21	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.21	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.21	0.10
BIPHENYL	ND	2.1	0.52

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	15.4	20.60	74.8	40-130
2-FLUOROBIPHENYL	14.4	20.60	69.8	45-130
TERPHENYL-D14	20.1	20.60	97.8	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F102                           Date Extracted: 06/19/12 15:00
Sample ID    : MBLK1W                           Date Analyzed: 06/25/12 19:37
Lab Samp ID  : SVF039WB                         Dilution Factor: 1
Lab File ID  : RFL331                           Matrix          : WATER
Ext Btch ID  : SVF039W                           % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	13.1	20.00	65.4	40-130
2-FLUOROBIPHENYL	12.7	20.00	63.3	45-130
TERPHENYL-D14	16.9	20.00	84.3	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVF039WB SVF039WL SVF039WC  
LAB FILE ID: RFL331 RFL326 RFL327  
DATE EXTRACTED: 06/19/1215:00 06/19/1215:00 06/19/1215:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/25/1219:37 06/25/1217:01 06/25/1217:54 DATE RECEIVED: 06/19/12  
PREP. BATCH: SVF039W SVF039W SVF039W  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	32.8	82	40.0	31.2	78	5	20-130	30
Acenaphthylene	ND	40.0	33.6	84	40.0	31.4	78	7	30-140	30
Anthracene	ND	40.0	32.0	80	40.0	32.3	81	1	40-130	30
Benzo (a) anthracene	ND	40.0	30.7	77	40.0	32.0	80	4	50-130	30
Benzo (a) pyrene	ND	40.0	38.6	96	40.0	38.8	97	1	50-130	30
Benzo (b) fluoranthene	ND	40.0	38.1	95	40.0	40.2	101	5	50-130	30
Benzo (k) fluoranthene	ND	40.0	34.8	87	40.0	38.7	97	11	50-130	30
Benzo (g, h, i) perylene	ND	40.0	38.9	97	40.0	37.7	94	3	30-150	30
Chrysene	ND	40.0	30.3	76	40.0	32.3	81	6	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	42.0	105	40.0	39.1	98	7	40-140	30
Fluoranthene	ND	40.0	35.1	88	40.0	37.4	94	6	40-130	30
Fluorene	ND	40.0	31.4	78	40.0	27.7	69	12	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	40.8	102	40.0	38.4	96	6	40-130	30
Naphthalene	ND	40.0	26.9	67	40.0	27.9	70	4	20-130	30
Phenanthrene	ND	40.0	33.2	83	40.0	33.4	84	1	40-130	30
2-Methylnaphthalene	ND	40.0	27.7	69	40.0	27.3	68	2	30-150	30
1-Methylnaphthalene	ND	40.0	31.4	79	40.0	28.9	72	8	40-150	30
N-Nitrosodimethylamine	ND	40.0	34.2	86	40.0	33.7	84	1	20-150	30
Pyrene	ND	40.0	35.5	89	40.0	37.8	94	6	40-130	30
Azobenzene	ND	40.0	27.2	68	40.0	33.2	83	20	30-150	30
Benzo (e) pyrene	ND	40.0	35.0	87	40.0	35.4	88	1	30-150	30
Biphenyl	ND	40.0	31.2	78	40.0	29.3	73	6	30-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	12.3	62	20.0	11.6	58	40-130
2-Fluorobiphenyl	20.0	13.7	68	20.0	12.7	63	45-130
Terphenyl-d14	20.0	14.8	74	20.0	16.6	83	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 17:01
Sample ID:   SL-715-SA5C-SB-6.0-7.0           Date Analyzed: 06/30/12 16:16
Lab Samp ID: F102-04                           Dilution Factor: 1
Lab File ID: RFH228                            Matrix          : SOIL
Ext Btch ID: SVF051S                           % Moisture     : 6.5
Calib. Ref.: RFH072                            Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	ND	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	215	356.5	60.3	40-130
2-FLUOROBIPHENYL	205	356.5	57.6	45-130
TERPHENYL-D14	290	356.5	81.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 17:01
Sample ID    : SL-711-SA5C-SB-9.0-10.0         Date Analyzed: 06/30/12 16:35
Lab Samp ID  : F102-06                           Dilution Factor: 1
Lab File ID  : RFH229                             Matrix          : SOIL
Ext Btch ID  : SVF051S                            % Moisture     : 7.7
Calib. Ref.  : RFH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	156	361.1	43.1	40-130
2-FLUOROBIPHENYL	139	361.1	38.5*	45-130
TERPHENYL-D14	260	361.1	72.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 17:01
Sample ID    : SL-711-SA5C-SB-4.0-5.0          Date Analyzed: 06/30/12 16:54
Lab Samp ID  : F102-08                           Dilution Factor: 1
Lab File ID  : RFH230                             Matrix          : SOIL
Ext Btch ID  : SVF051S                            % Moisture     : 10.1
Calib. Ref.  : RFH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	182	370.7	49.0	40-130
2-FLUOROBIPHENYL	178	370.7	48.0	45-130
TERPHENYL-D14	306	370.7	82.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 17:01
Sample ID    : SL-712-SA5C-SB-9.0-10.0         Date Analyzed: 06/30/12 17:13
Lab Samp ID  : F102-10                          Dilution Factor: 1
Lab File ID  : RFH231                           Matrix          : SOIL
Ext Btch ID  : SVF051S                          % Moisture     : 10.2
Calib. Ref.  : RFH072                           Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	155	371.2	41.8	40-130
2-FLUOROBIPHENYL	134	371.2	36.1*	45-130
TERPHENYL-D14	301	371.2	81.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 17:01
Sample ID    : SL-712-SA5C-SB-4.0-5.0          Date Analyzed: 06/30/12 17:32
Lab Samp ID  : F102-13                           Dilution Factor: 1
Lab File ID  : RFH232                             Matrix          : SOIL
Ext Btch ID  : SVF051S                            % Moisture     : 11.5
Calib. Ref.  : RFH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	184	376.6	48.8	40-130
2-FLUOROBIPHENYL	148	376.6	39.3*	45-130
TERPHENYL-D14	324	376.6	86.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 17:01
Sample ID:   SL-713-SA5C-SB-6.0-7.0           Date Analyzed: 06/30/12 17:51
Lab Samp ID: F102-15                           Dilution Factor: 1
Lab File ID: RFH233                             Matrix          : SOIL
Ext Btch ID: SVF051S                           % Moisture     : 7.1
Calib. Ref.: RFH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	137	358.8	38.2*	40-130
2-FLUOROBIPHENYL	145	358.8	40.5*	45-130
TERPHENYL-D14	309	358.8	86.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 17:01
Sample ID    : SL-707-SA5C-SB-13.0-14.0        Date Analyzed: 06/30/12 18:10
Lab Samp ID  : F102-18                           Dilution Factor: 1
Lab File ID  : RFH234                             Matrix          : SOIL
Ext Btch ID  : SVF051S                            % Moisture     : 8.7
Calib. Ref.  : RFH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	210	365.1	57.5	40-130
2-FLUOROBIPHENYL	184	365.1	50.4	45-130
TERPHENYL-D14	310	365.1	84.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 17:01
Sample ID    : MBLK1S                           Date Analyzed: 06/30/12 12:08
Lab Samp ID  : SVF051SB                         Dilution Factor: 1
Lab File ID  : RFH215                           Matrix          : SOIL
Ext Btch ID  : SVF051S                          % Moisture     : NA
Calib. Ref.  : RFH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	226	333.3	67.8	40-130
2-FLUOROBIPHENYL	219	333.3	65.7	45-130
TERPHENYL-D14	303	333.3	90.9	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF051SB SVF051SL SVF051SC  
LAB FILE ID: RFH215 RFH216 RFH217  
DATE EXTRACTED: 06/25/1217:01 06/25/1217:01 06/25/1217:01 DATE COLLECTED: NA  
DATE ANALYZED: 06/30/1212:08 06/30/1212:27 06/30/1212:46 DATE RECEIVED: 06/25/12  
PREP. BATCH: SVF051S SVF051S SVF051S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	266	80	333	245	74	8	10-130	50
Acenaphthylene	ND	333	282	85	333	260	78	8	20-130	50
Anthracene	ND	333	263	79	333	240	72	9	20-130	50
Benzo (a) anthracene	ND	333	292	88	333	261	78	11	30-130	50
Benzo (a) pyrene	ND	333	304	91	333	269	81	12	30-130	50
Benzo (b) fluoranthene	ND	333	323	97	333	287	86	12	40-130	50
Benzo (k) fluoranthene	ND	333	310	93	333	274	82	12	30-140	50
Benzo (g, h, i) perylene	ND	333	323	97	333	285	86	12	30-140	50
Chrysene	ND	333	285	86	333	253	76	12	30-140	50
Dibenzo (a, h) anthracene	ND	333	333	100	333	294	88	12	40-140	50
Fluoranthene	ND	333	306	92	333	273	82	11	30-130	50
Fluorene	ND	333	289	87	333	267	80	8	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	332	100	333	294	88	12	20-160	50
Naphthalene	ND	333	241	72	333	223	67	8	10-130	50
Phenanthrene	ND	333	270	81	333	245	74	10	20-130	50
2-Methylnaphthalene	ND	333	259	78	333	238	71	8	30-150	50
1-Methylnaphthalene	ND	333	261	78	333	239	72	9	30-150	50
N-Nitrosodimethylamine	ND	333	227	68	333	209	63	8	30-150	50
Pyrene	ND	333	296	89	333	264	79	11	20-150	50
Azobenzene	ND	333	242	73	333	223	67	8	30-150	50
Benzo (e) pyrene	ND	333	271	81	333	269	81	1	30-150	50
Biphenyl	ND	333	202	60	333	209	63	4	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	218	65	333	226	68	40-130
2-Fluorobiphenyl	333	216	65	333	221	66	45-130
Terphenyl-d14	333	283	85	333	280	84	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 8.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-707-SA5C-SB-13.0-14.0  
LAB SAMP ID: F102-18 F102-18M F102-18S  
LAB FILE ID: RFH234 RFH218 RFH219  
DATE EXTRACTED: 06/25/1217:01 06/25/1217:01 06/25/1217:01 DATE COLLECTED: 06/14/12  
DATE ANALYZED: 06/30/1218:10 06/30/1213:05 06/30/1213:24 DATE RECEIVED: 06/15/12  
PREP. BATCH: SVF051S SVF051S SVF051S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	365	159	43	365	163	45	3	10-130	50
Acenaphthylene	ND	365	168	46	365	173	47	3	20-130	50
Anthracene	ND	365	241	66	365	200	55	19	20-130	50
Benzo (a) anthracene	ND	365	333	91	365	226	62	38	30-130	50
Benzo (a) pyrene	ND	365	309	85	365	227	62	30	30-130	50
Benzo (b) fluoranthene	ND	365	339	93	365	256	70	28	30-130	50
Benzo (k) fluoranthene	ND	365	312	85	365	228	62	31	30-130	50
Benzo (g, h, i) perylene	ND	365	330	90	365	243	67	30	30-140	50
Chrysene	ND	365	324	89	365	219	60	39	20-130	50
Dibenzo (a, h) anthracene	ND	365	340	93	365	250	68	31	30-130	50
Fluoranthene	ND	365	327	89	365	237	65	32	30-150	50
Fluorene	ND	365	184	50	365	189	52	3	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	365	340	93	365	250	69	30	20-160	50
Naphthalene	ND	365	139	38	365	137	38	2	10-130	50
Phenanthrene	ND	365	246	67	365	208	57	17	20-130	50
2-Methylnaphthalene	ND	365	154	42	365	155	43	1	30-150	50
1-Methylnaphthalene	ND	365	154	42	365	157	43	1	30-150	50
N-Nitrosodimethylamine	ND	365	147	40	365	152	42	3	20-150	50
Pyrene	ND	365	320	88	365	229	63	33	10-160	50
Azobenzene	ND	365	165	45	365	164	45	1	30-150	50
Benzo (e) pyrene	ND	365	314	86	365	226	62	33	30-150	50
Biphenyl	ND	365	129	35	365	105	29*	21	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	365	140	38*	365	145	40	40-130
2-Fluorobiphenyl	365	124	34*	365	128	35*	45-130
Terphenyl-d14	365	319	87	365	231	63	45-135

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/17/12 18:14
Sample ID    : EB-061412                        Date Analyzed: 06/17/12 18:14
Lab Samp ID  : F102-01                          Dilution Factor: 1
Lab File ID  : EF15073A                         Matrix          : WATER
Ext Btch ID  : VG39F10                          % Moisture     : NA
Calib. Ref.  : EF15068A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	51	50	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	36.5	40.00	91.2	60-140

RL : Reporting Limit  
 Discrete peak(s) reported

METHOD 5030B/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                       Date Received: 06/15/12
Batch No.    : 12F102                             Date Extracted: 06/18/12 23:06
Sample ID    : TB-061412                          Date Analyzed: 06/18/12 23:06
Lab Samp ID  : F102-16                             Dilution Factor: 1
Lab File ID  : EF18020A                           Matrix          : WATER
Ext Btch ID  : VG39F11                             % Moisture     : NA
Calib. Ref.  : EF18014A                           Instrument ID   : GCT039
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	15J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	38.5	40.00	96.2 60-140

RL : Reporting Limit  
Discrete peak(s) reported

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/17/12
Batch No.    : 12F102                             Date Extracted: 06/17/12 16:04
Sample ID    : MBLK1W                             Date Analyzed: 06/17/12 16:04
Lab Samp ID  : VG39F10Q                           Dilution Factor: 1
Lab File ID  : EF15070A                           Matrix          : WATER
Ext Btch ID  : VG39F10                             % Moisture     : NA
Calib. Ref.  : EF15068A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	37.0	40.00	92.6 60-130

RL : Reporting Limit

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F102                           Date Extracted: 06/18/12 11:23
Sample ID    : MBLK2W                           Date Analyzed: 06/18/12 11:23
Lab Samp ID  : VG39F11B                         Dilution Factor: 1
Lab File ID  : EF18004A                         Matrix          : WATER
Ext Btch ID  : VG39F11                          % Moisture     : NA
Calib. Ref.  : EF18002A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	35.4	40.00	88.5 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F10Q VG39F10L VG39F10C  
LAB FILE ID: EF15070A EF15066A EF15067A  
DATE EXTRACTED: 06/17/1216:04 06/17/1213:11 06/17/1213:54 DATE COLLECTED: NA  
DATE ANALYZED: 06/17/1216:04 06/17/1213:11 06/17/1213:54 DATE RECEIVED: 06/17/12  
PREP. BATCH: VG39F10 VG39F10 VG39F10  
CALIB. REF: EF15068A EF15055A EF15055A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	459	92	500	455	91	1	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	43.8	110	40.0	46.1	115	60-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2W  
LAB SAMP ID: VG39F11B VG39F11L VG39F11C  
LAB FILE ID: EF18004A EF18005A EF18006A  
DATE EXTRACTED: 06/18/1211:23 06/18/1212:06 06/18/1212:49 DATE COLLECTED: NA  
DATE ANALYZED: 06/18/1211:23 06/18/1212:06 06/18/1212:49 DATE RECEIVED: 06/18/12  
PREP. BATCH: VG39F11 VG39F11 VG39F11  
CALIB. REF: EF18002A EF18002A EF18002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	469	94	500	491	98	5	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	46.8	117	40.0	45.9	115	60-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/17/12 03:48
Sample ID:   SL-715-SA5C-SB-7.0                Date Analyzed: 06/17/12 03:48
Lab Samp ID: F102-03                            Dilution Factor: 0.95
Lab File ID: EF15053A                           Matrix          : SOIL
Ext Btch ID: GMF010S                             % Moisture     : 7.1
Calib. Ref.: EF15041A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.99	2.045	97.3 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/15/12 16:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/17/12 04:31
Sample ID:   SL-711-SA5C-SB-10.0                Date Analyzed: 06/17/12 04:31
Lab Samp ID: F102-07                             Dilution Factor: 1.05
Lab File ID: EF15054A                            Matrix          : SOIL
Ext Btch ID: GMF010S                             % Moisture     : 16.7
Calib. Ref.: EF15041A                            Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.3	0.63
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.36	2.521	93.8 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/15/12 16:01

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client       : CDM                               Date  Collected: 06/14/12
Project      : SSFL PHASE 3                     Date  Received: 06/15/12
Batch No.    : 12F102                           Date  Extracted: 06/17/12 06:41
Sample ID:   SL-711-SA5C-SB-5.0                 Date  Analyzed: 06/17/12 06:41
Lab Samp ID: F102-09                             Dilution Factor: 0.99
Lab File ID: EF15057A                           Matrix       : SOIL
Ext Btch ID: GMF010S                             % Moisture   : 11.2
Calib. Ref.: EF15055A                           Instrument ID : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.56
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.07	2.230	92.6 70-140

RL : Reporting Limit  
Methanol Extraction: 06/15/12 16:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/14/12
Project    : SSFL PHASE 3                       Date Received: 06/15/12
Batch No.  : 12F102                             Date Extracted: 06/17/12 07:24
Sample ID: SL-712-SA5C-SB-10.0                 Date Analyzed: 06/17/12 07:24
Lab Samp ID: F102-11                           Dilution Factor: 0.93
Lab File ID: EF15058A                          Matrix          : SOIL
Ext Btch ID: GMF010S                           % Moisture     : 8.1
Calib. Ref.: EF15055A                          Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.84	2.024	90.9 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/15/12 16:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/17/12 08:07
Sample ID:   SL-712-SA5C-SB-5.0                Date Analyzed: 06/17/12 08:07
Lab Samp ID: F102-12                           Dilution Factor: 0.91
Lab File ID: EF15059A                          Matrix          : SOIL
Ext Btch ID: GMF010S                            % Moisture     : 13.5
Calib. Ref.: EF15055A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.53
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.86	2.104	88.5 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/15/12 16:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/14/12
Project    : SSFL PHASE 3                       Date Received: 06/15/12
Batch No.  : 12F102                             Date Extracted: 06/17/12 08:50
Sample ID: SL-713-SA5C-SB-7.0                 Date Analyzed: 06/17/12 08:50
Lab Samp ID: F102-14                          Dilution Factor: 1.02
Lab File ID: EF15060A                         Matrix          : SOIL
Ext Btch ID: GMF010S                          % Moisture     : 9.7
Calib. Ref.: EF15055A                         Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.56
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	2.14	2.259	94.6 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/15/12 16:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/17/12 09:34
Sample ID:   SL-707-SA5C-SB-14.0               Date Analyzed: 06/17/12 09:34
Lab Samp ID: F102-17                           Dilution Factor: 0.97
Lab File ID: EF15061A                          Matrix          : SOIL
Ext Btch ID: GMF010S                           % Moisture     : 8.2
Calib. Ref.: EF15055A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.53
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.92	2.113	90.8 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/15/12 16:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/16/12
Batch No.  : 12F102                             Date Extracted: 06/16/12 16:18
Sample ID  : MBLK1S                             Date Analyzed: 06/16/12 16:18
Lab Samp ID: GMF010SB                          Dilution Factor: 1
Lab File ID: EF15037A                          Matrix          : SOIL
Ext Btch ID: GMF010S                           % Moisture     : NA
Calib. Ref.: EF15028A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.93	2.000	96.6	60-130

RL : Reporting Limit  
 Methanol Extraction: 06/15/12 16:01

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF010SB GMF010SL GMF010SC  
LAB FILE ID: EF15037A EF15039A EF15040A  
DATE EXTRACTED: 06/16/1216:18 06/16/1217:44 06/16/1218:28 DATE COLLECTED: NA  
DATE ANALYZED: 06/16/1216:18 06/16/1217:44 06/16/1218:28 DATE RECEIVED: 06/16/12  
PREP. BATCH: GMF010S GMF010S GMF010S  
CALIB. REF: EF15028A EF15028A EF15028A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	20.2	81	25.0	19.8	79	2	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.29	115	2.00	2.16	108	60-130

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/18/12 12:15
Sample ID    : EB-061412                        Date Analyzed: 06/20/12 22:58
Lab Samp ID  : F102-01                          Dilution Factor: 0.97
Lab File ID  : LF20034A                         Matrix          : WATER
Ext Btch ID  : DSF019W                          % Moisture     : NA
Calib. Ref.  : LF20027A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.097	0.049
EFH(C12-C14)	ND	0.097	0.049
EFH(C15-C20)	ND	0.097	0.049
EFH(C21-C30)	ND	0.097	0.049
EFH(C30-C40)	ND	0.097	0.049
TOTAL EFH(C8-C40)	ND	0.097	0.049

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.823	0.9700	84.9	40-130
HEXACOSANE	0.272	0.2425	112	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F102                           Date Extracted: 06/18/12 12:15
Sample ID    : MBLK1W                            Date Analyzed: 06/20/12 22:41
Lab Samp ID  : DSF019WB                         Dilution Factor: 1
Lab File ID  : LF20033A                         Matrix          : WATER
Ext Btch ID  : DSF019W                          % Moisture      : NA
Calib. Ref.  : LF20027A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.850	1.000	85.0	40-130
HEXACOSANE	0.280	0.2500	112	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSF019WB DSF019WL DSF019WC  
LAB FILE ID: LF20033A LF20031A LF20032A  
DATE EXTRACTED: 06/18/1212:15 06/18/1212:15 06/18/1212:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/20/1222:41 06/20/1222:08 06/20/1222:24 DATE RECEIVED: 06/18/12  
PREP. BATCH: DSF019W DSF019W DSF019W  
CALIB. REF: LF20027A LF20027A LF20027A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.89	98	5.00	4.46	89	9	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.925	92	1.00	0.854	85	40-130
Hexacosane	0.250	0.295	118	0.250	0.284	113	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/20/12 13:15
Sample ID:   SL-715-SA5C-SB-6.0-7.0           Date Analyzed: 06/22/12 03:48
Lab Samp ID: F102-04                            Dilution Factor: 1
Lab File ID: LF21037A                          Matrix          : SOIL
Ext Btch ID: DSF023S                            % Moisture     : 6.5
Calib. Ref.: LF21027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	3.2J	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	ND	5.3	2.7
EFH(C30-C40)	6.6J	11	5.3
TOTAL EFH(C8-C40)	9.8	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.0	107.0	73.0	50-150
HEXACOSANE	30.3	26.74	113	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/20/12 13:15
Sample ID:   SL-711-SA5C-SB-9.0-10.0           Date Analyzed: 06/22/12 03:31
Lab Samp ID: F102-06                            Dilution Factor: 1
Lab File ID: LF21036A                           Matrix          : SOIL
Ext Btch ID: DSF023S                             % Moisture     : 7.7
Calib. Ref.: LF21027A                           Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	80.4	108.3	74.2	50-150
HEXACOSANE	30.1	27.09	111	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/20/12 13:15
Sample ID:   SL-711-SA5C-SB-4.0-5.0           Date Analyzed: 06/22/12 04:05
Lab Samp ID: F102-08                           Dilution Factor: 1
Lab File ID: LF21038A                          Matrix          : SOIL
Ext Btch ID: DSF023S                            % Moisture     : 10.1
Calib. Ref.: LF21027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	3.9J	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	3.9J	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	85.1	111.2	76.5	50-150
HEXACOSANE	31.8	27.81	114	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/20/12 13:15
Sample ID:   SL-712-SA5C-SB-9.0-10.0           Date Analyzed: 06/22/12 04:55
Lab Samp ID: F102-10                            Dilution Factor: 1
Lab File ID: LF21041A                           Matrix          : SOIL
Ext Btch ID: DSF023S                             % Moisture     : 10.2
Calib. Ref.: LF21039A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	80.4	111.4	72.2	50-150
HEXACOSANE	30.9	27.84	111	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/20/12 13:15
Sample ID:   SL-712-SA5C-SB-4.0-5.0           Date Analyzed: 06/22/12 05:45
Lab Samp ID: F102-13                           Dilution Factor: 1
Lab File ID: LF21044A                          Matrix          : SOIL
Ext Btch ID: DSF023S                            % Moisture     : 11.5
Calib. Ref.: LF21039A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.3	113.0	71.9	50-150
HEXACOSANE	30.8	28.25	109	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/20/12 13:15
Sample ID:   SL-713-SA5C-SB-6.0-7.0           Date Analyzed: 06/22/12 06:02
Lab Samp ID: F102-15                           Dilution Factor: 1
Lab File ID: LF21045A                          Matrix          : SOIL
Ext Btch ID: DSF023S                           % Moisture     : 7.1
Calib. Ref.: LF21039A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	6.9J	11	5.4
TOTAL EFH(C8-C40)	6.9	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	80.8	107.6	75.1	50-150
HEXACOSANE	30.0	26.91	111	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                       Date Received: 06/15/12
Batch No.    : 12F102                             Date Extracted: 06/20/12 13:15
Sample ID:   SL-707-SA5C-SB-13.0-14.0           Date Analyzed: 06/22/12 06:19
Lab Samp ID: F102-18                             Dilution Factor: 1
Lab File ID: LF21046A                           Matrix          : SOIL
Ext Btch ID: DSF023S                             % Moisture     : 8.7
Calib. Ref.: LF21039A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.9	109.5	69.3	50-150
HEXACOSANE	29.4	27.38	107	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F102                           Date Extracted: 06/20/12 13:15
Sample ID    : MBLK1S                           Date Analyzed: 06/22/12 03:15
Lab Samp ID  : DSF023SB                         Dilution Factor: 1
Lab File ID  : LF21035A                        Matrix          : SOIL
Ext Btch ID  : DSF023S                          % Moisture     : NA
Calib. Ref.  : LF21027A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.5	100.0	78.5	50-150
HEXACOSANE	27.1	25.00	108	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF023SB DSF023SL DSF023SC  
LAB FILE ID: LF21035A LF21033A LF21034A  
DATE EXTRACTED: 06/20/1213:15 06/20/1213:15 06/20/1213:15 DATE COLLECTED: NA  
DATE ANALYZED: 06/22/1203:15 06/22/1202:41 06/22/1202:58 DATE RECEIVED: 06/20/12  
PREP. BATCH: DSF023S DSF023S DSF023S  
CALIB. REF: LF21027A LF21027A LF21027A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	436	87	500	399	80	9	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	88.0	88	100	86.2	86	50-150
Hexacosane	25.0	28.3	113	25.0	27.9	112	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 10.2  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-712-SA5C-SB-9.0-10.0  
LAB SAMP ID: F102-10 F102-10M F102-10S  
LAB FILE ID: LF21041A LF21042A LF21043A  
DATE EXTRACTED: 06/20/1213:15 06/20/1213:15 06/20/1213:15 DATE COLLECTED: 06/14/12  
DATE ANALYZED: 06/22/1204:55 06/22/1205:12 06/22/1205:28 DATE RECEIVED: 06/15/12  
PREP. BATCH: DSF023S DSF023S DSF023S  
CALIB. REF: LF21039A LF21039A LF21039A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	557	433	78	557	416	75	4	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	111	88.1	79	111	88.0	79	50-150
Hexacosane	27.8	30.1	108	27.8	29.5	106	50-150

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                       Date Received: 06/15/12
Batch No.    : 12F102                             Date Extracted: 06/18/12 15:16
Sample ID    : EB-061412                          Date Analyzed: 06/27/12 03:11
Lab Samp ID  : F102-01                             Dilution Factor: 1
Lab File ID  : SF26031A                           Matrix          : WATER
Ext Btch ID  : CPF018W                             % Moisture     : NA
Calib. Ref.  : SF26025A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.4242)   0.5417	0.4000	(106)   135*	45-120
TETRACHLORO-M-XYLENE	(0.3288)   0.3881	0.4000	(82.2)   97.0	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/18/12
Batch No.  : 12F102                             Date Extracted: 06/18/12 15:16
Sample ID  : MBLK1W                             Date Analyzed: 06/27/12 01:28
Lab Samp ID: CPF018WB                          Dilution Factor: 1
Lab File ID: SF26028A                          Matrix          : WATER
Ext Btch ID: CPF018W                            % Moisture     : NA
Calib. Ref.: SF26025A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.4394)   0.5410	0.4000	(110)   135*	45-120
TETRACHLORO-M-XYLENE	(0.4493)   0.4438	0.4000	(112)   111	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPF018WB 60F018WX 60F018WY  
LAB FILE ID: SF26028A SF26029A SF26030A  
DATE EXTRACTED: 06/18/1215:16 06/18/1215:16 06/18/1215:16 DATE COLLECTED: NA  
DATE ANALYZED: 06/27/1201:28 06/27/1202:02 06/27/1202:37 DATE RECEIVED: 06/18/12  
PREP. BATCH: CPF018W CPF018W CPF018W  
CALIB. REF: SF26025A SF26025A SF26025A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	(5.04)   5.42	(101)   108	5.00	(5.06)   5.63	(101)   113	(0)   4	50-130	30
Aroclor 1260	(ND)   ND	5.00	(5.19)   6.27	(104)   125	5.00	(5.17)   6.34	(103)   127	(0)   1	60-150	30
Aroclor 5460	(ND)   ND	2.50	(3.03)   3.22	(121)   129	2.50	(3.17)   3.43	(126)   137	(5)   6	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	(0.4455)   0.5359	(111)   134*	0.4000	(0.4496)   0.5374	(112)   134*	45-120
Tetrachloro-m-xylene	0.4000	(0.4055)   0.4249	(101)   106	0.4000	(0.4332)   0.4420	(108)   110	30-140

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/13/12
Project    : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.  : 12F102                           Date Extracted: 06/25/12 16:30
Sample ID: SL-716-SA5C-SB-5.5-6.5           Date Analyzed: 06/27/12 03:45
Lab Samp ID: F102-02                         Dilution Factor: 1
Lab File ID: SF26032A                       Matrix          : SOIL
Ext Btch ID: CPF028S                        % Moisture     : 7.4
Calib. Ref.: SF26025A                       Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.55)   18.27	14.40	(101)   127*	45-120
TETRACHLORO-M-XYLENE	(13.83)   13.16	14.40	(96.0)   91.4	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 16:30
Sample ID    : SL-715-SA5C-SB-6.0-7.0          Date Analyzed: 06/27/12 04:19
Lab Samp ID  : F102-04                           Dilution Factor: 1
Lab File ID  : SF26033A                          Matrix          : SOIL
Ext Btch ID  : CPF028S                            % Moisture     : 6.5
Calib. Ref.  : SF26025A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.14)   17.74	14.26	(99.2)   124*	45-120
TETRACHLORO-M-XYLENE	(14.47)   13.25	14.26	(102)   93.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 16:30
Sample ID    : SL-719-SA5C-SB-6.0-7.0          Date Analyzed: 06/27/12 04:54
Lab Samp ID  : F102-05                          Dilution Factor: 1
Lab File ID  : SF26034A                        Matrix          : SOIL
Ext Btch ID  : CPF028S                         % Moisture     : 7.1
Calib. Ref.  : SF26025A                       Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.85)   18.11	14.35	(104)   126*	45-120
TETRACHLORO-M-XYLENE	(12.79)   12.12	14.35	(89.1)   84.5	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 16:30
Sample ID:   SL-711-SA5C-SB-9.0-10.0           Date Analyzed: 06/27/12 05:28
Lab Samp ID: F102-06                             Dilution Factor: 1
Lab File ID: SF26035A                           Matrix          : SOIL
Ext Btch ID: CPF028S                             % Moisture     : 7.7
Calib. Ref.: SF26025A                           Instrument ID  : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.83)   17.93	14.44	(103)   124*	45-120
TETRACHLORO-M-XYLENE	(13.09)   12.84	14.44	(90.6)   88.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 16:30
Sample ID    : SL-711-SA5C-SB-4.0-5.0          Date Analyzed: 06/27/12 06:02
Lab Samp ID  : F102-08                          Dilution Factor: 1
Lab File ID  : SF26036A                        Matrix          : SOIL
Ext Btch ID  : CPF028S                          % Moisture     : 10.1
Calib. Ref.  : SF26025A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.52)   22.29	14.83	(105)   150*	45-120
TETRACHLORO-M-XYLENE	(16.77)   14.76	14.83	(113)   99.5	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 16:30
Sample ID    : SL-712-SA5C-SB-9.0-10.0         Date Analyzed: 06/27/12 06:36
Lab Samp ID  : F102-10                          Dilution Factor: 1
Lab File ID  : SF26037A                        Matrix          : SOIL
Ext Btch ID  : CPF028S                          % Moisture     : 10.2
Calib. Ref.  : SF26025A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.36)   18.70	14.84	(103)   126*	45-120
TETRACHLORO-M-XYLENE	(14.17)   13.70	14.84	(95.5)   92.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/14/12
Project    : SSFL PHASE 3                       Date Received: 06/15/12
Batch No.  : 12F102                             Date Extracted: 06/25/12 16:30
Sample ID  : SL-712-SA5C-SB-4.0-5.0           Date Analyzed: 06/27/12 07:11
Lab Samp ID: F102-13                           Dilution Factor: 1
Lab File ID: SF26038A                          Matrix          : SOIL
Ext Btch ID: CPF028S                            % Moisture     : 11.5
Calib. Ref.: SF26025A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.02)   19.51	15.06	(106)   129*	45-120
TETRACHLORO-M-XYLENE	(15.75)   14.57	15.06	(105)   96.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
Batch No.    : 12F102                           Date Extracted: 06/25/12 16:30
Sample ID:   SL-713-SA5C-SB-6.0-7.0           Date Analyzed: 06/27/12 07:45
Lab Samp ID: F102-15                           Dilution Factor: 1
Lab File ID: SF26039A                          Matrix          : SOIL
Ext Btch ID: CPF028S                            % Moisture     : 7.1
Calib. Ref.: SF26025A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.21)   18.18	14.35	(99.0)   127*	45-120
TETRACHLORO-M-XYLENE	(15.32)   14.30	14.35	(107)   99.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/25/12
Batch No.    : 12F102                             Date Extracted: 06/25/12 16:30
Sample ID    : MBLK1S                             Date Analyzed: 06/26/12 14:37
Lab Samp ID  : 60F028SB                           Dilution Factor: 1
Lab File ID  : SF26009A                           Matrix          : SOIL
Ext Btch ID  : CPF028S                             % Moisture      : NA
Calib. Ref.  : SF26006A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.82)   16.80	13.33	(104)   126*	45-120
TETRACHLORO-M-XYLENE	(13.14)   11.76	13.33	(98.5)   88.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F028SB 60F028SL 60F028SC  
LAB FILE ID: SF26009A SF26010A SF26011A  
DATE EXTRACTED: 06/25/1216:30 06/25/1216:30 06/25/1216:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1214:37 06/26/1215:11 06/26/1215:46 DATE RECEIVED: 06/25/12  
PREP. BATCH: CPF028S CPF028S CPF028S  
CALIB. REF: SF26006A SF26006A SF26006A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(151)   154	(91)   92	167	(140)   157	(84)   94	(8)   2	50-130	50
Aroclor 1260	(ND)   ND	167	(166)   192	(100)   115	167	(162)   191	(97)   115	(2)   1	60-150	50
Aroclor 5460	(ND)   ND	83.3	(113)   112	(136)   134	83.3	(112)   112	(134)   134	(1)   0	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(14.46)   16.57	(108)   124*	13.33	(14.38)   16.58	(108)   124*	45-120
Tetrachloro-m-xylene	13.33	(13.42)   11.80	(101)   88.5	13.33	(13.24)   11.87	(99.3)   89.0	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/14/12
Project    : SSFL PHASE 3                     Date Received: 06/15/12
SDG NO.    : 12F102                           Date Extracted: 06/21/12 11:30
Sample ID: EB-061412                          Date Analyzed: 06/21/12 19:44
Lab Samp ID: F102-01                          Dilution Factor: 1
Lab File ID: 98F10077                        Matrix          : WATER
Ext Btch ID: IMF040W                          % Moisture     : NA
Calib. Ref.: 98F10070                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00551J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 06/21/12
SDG NO.    : 12F102                           Date Extracted: 06/21/12 11:30
Sample ID  : MBLK1W                            Date Analyzed: 06/21/12 19:30
Lab Samp ID: IMF040WB                         Dilution Factor: 1
Lab File ID: 98F10074                        Matrix          : WATER
Ext Btch ID: IMF040W                          % Moisture     : NA
Calib. Ref.: 98F10070                        Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F102  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMF040WB IMF040WL IMF040WC  
LAB FILE ID: 98F10074 98F10075 98F10076  
DATIME EXTRACTD: 06/21/1211:30 06/21/1211:30 06/21/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/21/1219:30 06/21/1219:35 06/21/1219:40 DATE RECEIVED: 06/21/12  
PREP. BATCH: IMF040W IMF040W IMF040W  
CALIB. REF: 98F10070 98F10070 98F10070

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.42	97	2.50	2.43	97	1	80-120	20
Antimony	ND	0.0250	0.0250	100	0.0250	0.0251	100	0	80-120	20
Arsenic	ND	0.0250	0.0244	98	0.0250	0.0245	98	0	80-120	20
Barium	ND	0.0250	0.0253	101	0.0250	0.0251	100	1	80-120	20
Beryllium	ND	0.0250	0.0253	101	0.0250	0.0250	100	1	80-120	20
Boron	ND	0.0250	0.0251	100	0.0250	0.0250	100	0	80-120	20
Cadmium	ND	0.0250	0.0249	100	0.0250	0.0249	100	0	80-120	20
Calcium	ND	2.50	2.62	105	2.50	2.65	106	1	80-120	20
Chromium	ND	0.0250	0.0243	97	0.0250	0.0238	95	2	80-120	20
Cobalt	ND	0.0250	0.0240	96	0.0250	0.0239	96	1	80-120	20
Copper	ND	0.0250	0.0246	98	0.0250	0.0241	97	2	80-120	20
Iron	ND	2.50	2.56	102	2.50	2.57	103	0	80-120	20
Lead	ND	0.0250	0.0244	98	0.0250	0.0241	97	1	80-120	20
Magnesium	ND	2.50	2.39	95	2.50	2.39	95	0	80-120	20
Manganese	ND	0.0250	0.0240	96	0.0250	0.0238	95	0	80-120	20
Molybdenum	ND	0.0250	0.0242	97	0.0250	0.0244	97	0	80-120	20
Nickel	ND	0.0250	0.0243	97	0.0250	0.0238	95	2	80-120	20
Potassium	ND	2.50	2.61	104	2.50	2.60	104	0	80-120	20
Selenium	ND	0.0250	0.0245	98	0.0250	0.0246	98	1	80-120	20
Silver	ND	0.0250	0.0252	101	0.0250	0.0250	100	1	80-120	20
Sodium	ND	2.50	2.44	98	2.50	2.50	100	3	80-120	20
Strontium	ND	0.0250	0.0238	95	0.0250	0.0238	95	0	80-120	20
Thallium	ND	0.0250	0.0234	93	0.0250	0.0233	93	0	80-120	20
Tin	ND	0.0250	0.0253	101	0.0250	0.0251	100	1	80-120	20
Titanium	ND	0.0250	0.0246	98	0.0250	0.0245	98	0	80-120	20
Vanadium	ND	0.0250	0.0240	96	0.0250	0.0235	94	2	80-120	20
Zinc	ND	0.0500	0.0497	99	0.0500	0.0506	101	2	80-120	20
Lithium	ND	0.0250	0.0241	97	0.0250	0.0238	95	1	80-120	20
Phosphorus	ND	0.250	0.243	97	0.250	0.244	98	0	80-120	20
Zirconium	ND	0.0250	0.0251	100	0.0250	0.0255	102	2	80-120	20

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/13/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
SDG NO.     : 12F102                           Date Extracted: 06/21/12 14:00
Sample ID   : SL-716-SA5C-SB-5.5-6.5          Date Analyzed: 06/25/12 18:53
Lab Samp ID : F102-02                           Dilution Factor: 0.966
Lab File ID : 98F11055                         Matrix          : SOIL
Ext Btch ID : IMF041S                          % Moisture     : 7.4
Calib. Ref. : 98F11048                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11500	104	12.5
Antimony	0.291J	0.522	0.104
Arsenic	4.58	0.522	0.209
Barium	103	0.522	0.209
Beryllium	0.475J	0.522	0.0522
Boron	3.40J	5.22	2.61
Cadmium	0.236J	0.522	0.0522
Calcium	6260	20.9	10.4
Chromium	18.4	0.522	0.209
Cobalt	5.16	0.522	0.0522
Copper	11.1	0.522	0.209
Iron	19300	104	10.4
Lead	7.30	0.522	0.104
Magnesium	4400	10.4	5.22
Manganese	394	0.522	0.261
Molybdenum	0.734	0.522	0.0522
Nickel	10.3	0.522	0.209
Potassium	1950	104	31.3
Selenium	0.262J	0.522	0.209
Silver	ND	0.522	0.0522
Sodium	110	104	52.2
Strontium	22.9	0.522	0.261
Thallium	0.224J	0.417	0.0522
Tin	ND	10.4	5.22
Titanium	914	1.04	0.522
Vanadium	32.6	0.522	0.0522
Zinc	111	5.22	1.56
Lithium	23.7	2.09	1.04
Phosphorus	307	12.5	6.26
Zirconium	ND	5.22	2.61

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
SDG NO.     : 12F102                            Date Extracted: 06/21/12 14:00
Sample ID   : SL-715-SA5C-SB-6.0-7.0          Date Analyzed: 06/25/12 18:57
Lab Samp ID : F102-04                           Dilution Factor: 0.966
Lab File ID : 98F11056                         Matrix          : SOIL
Ext Btch ID : IMF041S                          % Moisture     : 6.5
Calib. Ref. : 98F11048                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11500	103	12.4
Antimony	0.167J	0.517	0.103
Arsenic	4.12	0.517	0.207
Barium	88.7	0.517	0.207
Beryllium	0.490J	0.517	0.0517
Boron	ND	5.17	2.58
Cadmium	0.215J	0.517	0.0517
Calcium	3320	20.7	10.3
Chromium	18.7	0.517	0.207
Cobalt	5.27	0.517	0.0517
Copper	8.16	0.517	0.207
Iron	19800	103	10.3
Lead	4.92	0.517	0.103
Magnesium	4810	10.3	5.17
Manganese	258	0.517	0.258
Molybdenum	0.556	0.517	0.0517
Nickel	11.1	0.517	0.207
Potassium	2030	103	31.0
Selenium	ND	0.517	0.207
Silver	ND	0.517	0.0517
Sodium	116	103	51.7
Strontium	20.2	0.517	0.258
Thallium	0.214J	0.413	0.0517
Tin	ND	10.3	5.17
Titanium	897	1.03	0.517
Vanadium	34.0	0.517	0.0517
Zinc	54.8	5.17	1.55
Lithium	25.8	2.07	1.03
Phosphorus	316	12.4	6.20
Zirconium	ND	5.17	2.58

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/14/12
Project     : SSFL PHASE 3                     Date Received: 06/15/12
SDG NO.    : 12F102                           Date Extracted: 06/21/12 14:00
Sample ID: SL-719-SA5C-SB-6.0-7.0           Date Analyzed: 06/25/12 19:02
Lab Samp ID: F102-05                         Dilution Factor: 0.957
Lab File ID: 98F11057                       Matrix          : SOIL
Ext Btch ID: IMF041S                        % Moisture     : 7.1
Calib. Ref.: 98F11048                       Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9270	103	12.4
Antimony	0.203J	0.515	0.103
Arsenic	4.69	0.515	0.206
Barium	75.4	0.515	0.206
Beryllium	0.374J	0.515	0.0515
Boron	ND	5.15	2.58
Cadmium	0.189J	0.515	0.0515
Calcium	2960	20.6	10.3
Chromium	15.1	0.515	0.206
Cobalt	5.05	0.515	0.0515
Copper	7.32	0.515	0.206
Iron	18400	103	10.3
Lead	3.40	0.515	0.103
Magnesium	4340	10.3	5.15
Manganese	305	0.515	0.258
Molybdenum	0.328J	0.515	0.0515
Nickel	9.20	0.515	0.206
Potassium	2030	103	30.9
Selenium	ND	0.515	0.206
Silver	ND	0.515	0.0515
Sodium	185	103	51.5
Strontium	18.8	0.515	0.258
Thallium	0.237J	0.412	0.0515
Tin	ND	10.3	5.15
Titanium	1030	1.03	0.515
Vanadium	31.1	0.515	0.0515
Zinc	52.7	5.15	1.55
Lithium	26.1	2.06	1.03
Phosphorus	370	12.4	6.18
Zirconium	ND	5.15	2.58

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/14/12
Project     : SSFL PHASE 3                     Date Received: 06/15/12
SDG NO.    : 12F102                           Date Extracted: 06/21/12 14:00
Sample ID:  SL-711-SA5C-SB-9.0-10.0          Date Analyzed: 06/25/12 19:06
Lab Samp ID: F102-06                          Dilution Factor: 0.962
Lab File ID: 98F11058                         Matrix          : SOIL
Ext Btch ID: IMF041S                          % Moisture     : 7.7
Calib. Ref.: 98F11048                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11400	104	12.5
Antimony	0.281J	0.521	0.104
Arsenic	7.04	0.521	0.208
Barium	82.1	0.521	0.208
Beryllium	0.447J	0.521	0.0521
Boron	ND	5.21	2.61
Cadmium	0.185J	0.521	0.0521
Calcium	3550	20.8	10.4
Chromium	22.9	0.521	0.208
Cobalt	5.90	0.521	0.0521
Copper	9.32	0.521	0.208
Iron	19900	104	10.4
Lead	4.49	0.521	0.104
Magnesium	4850	10.4	5.21
Manganese	226	0.521	0.261
Molybdenum	0.445J	0.521	0.0521
Nickel	12.5	0.521	0.208
Potassium	1790	104	31.3
Selenium	ND	0.521	0.208
Silver	ND	0.521	0.0521
Sodium	95.3J	104	52.1
Strontium	24.3	0.521	0.261
Thallium	0.262J	0.417	0.0521
Tin	ND	10.4	5.21
Titanium	881	1.04	0.521
Vanadium	39.2	0.521	0.0521
Zinc	53.9	5.21	1.56
Lithium	24.0	2.08	1.04
Phosphorus	367	12.5	6.25
Zirconium	ND	5.21	2.61

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/14/12
Project     : SSFL PHASE 3                     Date Received: 06/15/12
SDG NO.    : 12F102                           Date Extracted: 06/21/12 14:00
Sample ID: SL-711-SA5C-SB-4.0-5.0           Date Analyzed: 06/25/12 19:25
Lab Samp ID: F102-08                         Dilution Factor: 0.971
Lab File ID: 98F11062                       Matrix          : SOIL
Ext Btch ID: IMF041S                        % Moisture     : 10.1
Calib. Ref.: 98F11060                       Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16100	108	13.0
Antimony	0.246J	0.540	0.108
Arsenic	4.85	0.540	0.216
Barium	103	0.540	0.216
Beryllium	0.722	0.540	0.0540
Boron	ND	5.40	2.70
Cadmium	0.183J	0.540	0.0540
Calcium	4090	21.6	10.8
Chromium	18.8	0.540	0.216
Cobalt	5.78	0.540	0.0540
Copper	7.26	0.540	0.216
Iron	20300	108	10.8
Lead	6.47	0.540	0.108
Magnesium	3960	10.8	5.40
Manganese	200	0.540	0.270
Molybdenum	0.634	0.540	0.0540
Nickel	9.66	0.540	0.216
Potassium	1600	108	32.4
Selenium	ND	0.540	0.216
Silver	ND	0.540	0.0540
Sodium	113	108	54.0
Strontium	26.8	0.540	0.270
Thallium	0.200J	0.432	0.0540
Tin	ND	10.8	5.40
Titanium	784	1.08	0.540
Vanadium	35.6	0.540	0.0540
Zinc	41.5	5.40	1.62
Lithium	16.8	2.16	1.08
Phosphorus	176	13.0	6.48
Zirconium	ND	5.40	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/14/12
Project     : SSFL PHASE 3                     Date Received: 06/15/12
SDG NO.    : 12F102                           Date Extracted: 06/21/12 14:00
Sample ID:  SL-712-SA5C-SB-9.0-10.0          Date Analyzed: 06/25/12 19:30
Lab Samp ID: F102-10                          Dilution Factor: 0.995
Lab File ID: 98F11063                         Matrix          : SOIL
Ext Btch ID: IMF041S                           % Moisture     : 10.2
Calib. Ref.: 98F11060                         Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9500	111	13.3
Antimony	1.14	0.554	0.111
Arsenic	3.16	0.554	0.222
Barium	60.8	0.554	0.222
Beryllium	0.520J	0.554	0.0554
Boron	ND	5.54	2.77
Cadmium	0.153J	0.554	0.0554
Calcium	3000	22.2	11.1
Chromium	14.9	0.554	0.222
Cobalt	4.44	0.554	0.0554
Copper	7.60	0.554	0.222
Iron	15900	111	11.1
Lead	4.55	0.554	0.111
Magnesium	4030	11.1	5.54
Manganese	197	0.554	0.277
Molybdenum	0.261J	0.554	0.0554
Nickel	9.79	0.554	0.222
Potassium	2000	111	33.2
Selenium	ND	0.554	0.222
Silver	0.0648J	0.554	0.0554
Sodium	138	111	55.4
Strontium	14.2	0.554	0.277
Thallium	0.223J	0.443	0.0554
Tin	ND	11.1	5.54
Titanium	873	1.11	0.554
Vanadium	24.6	0.554	0.0554
Zinc	44.9	5.54	1.66
Lithium	23.9	2.22	1.11
Phosphorus	319	13.3	6.65
Zirconium	ND	5.54	2.77

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
SDG NO.     : 12F102                            Date Extracted: 06/21/12 14:00
Sample ID   : SL-712-SA5C-SB-4.0-5.0          Date Analyzed: 06/25/12 19:34
Lab Samp ID : F102-13                           Dilution Factor: 0.971
Lab File ID : 98F11064                          Matrix          : SOIL
Ext Btch ID : IMF041S                            % Moisture     : 11.5
Calib. Ref. : 98F11060                          Instrument ID  : T-I98
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```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19700	110	13.2
Antimony	0.341J	0.549	0.110
Arsenic	5.51	0.549	0.219
Barium	144	0.549	0.219
Beryllium	0.858	0.549	0.0549
Boron	ND	5.49	2.74
Cadmium	0.228J	0.549	0.0549
Calcium	5560	21.9	11.0
Chromium	23.6	0.549	0.219
Cobalt	6.78	0.549	0.0549
Copper	9.41	0.549	0.219
Iron	24500	110	11.0
Lead	7.49	0.549	0.110
Magnesium	5080	11.0	5.49
Manganese	240	0.549	0.274
Molybdenum	0.351J	0.549	0.0549
Nickel	13.7	0.549	0.219
Potassium	1790	110	32.9
Selenium	ND	0.549	0.219
Silver	0.0812J	0.549	0.0549
Sodium	273	110	54.9
Strontium	36.6	0.549	0.274
Thallium	0.262J	0.439	0.0549
Tin	ND	11.0	5.49
Titanium	856	1.10	0.549
Vanadium	42.2	0.549	0.0549
Zinc	49.1	5.49	1.65
Lithium	30.3	2.19	1.10
Phosphorus	106	13.2	6.58
Zirconium	ND	5.49	2.74

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/14/12
Project    : SSFL PHASE 3                     Date Received: 06/15/12
SDG NO.    : 12F102                           Date Extracted: 06/21/12 14:00
Sample ID: SL-713-SA5C-SB-6.0-7.0           Date Analyzed: 06/25/12 19:39
Lab Samp ID: F102-15                         Dilution Factor: 0.995
Lab File ID: 98F11065                       Matrix          : SOIL
Ext Btch ID: IMF041S                        % Moisture     : 7.1
Calib. Ref.: 98F11060                       Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10600	107	12.9
Antimony	0.172J	0.536	0.107
Arsenic	3.73	0.536	0.214
Barium	89.1	0.536	0.214
Beryllium	0.435J	0.536	0.0536
Boron	ND	5.36	2.68
Cadmium	0.187J	0.536	0.0536
Calcium	3050	21.4	10.7
Chromium	15.9	0.536	0.214
Cobalt	5.07	0.536	0.0536
Copper	7.36	0.536	0.214
Iron	19100	107	10.7
Lead	4.25	0.536	0.107
Magnesium	4790	10.7	5.36
Manganese	248	0.536	0.268
Molybdenum	0.538	0.536	0.0536
Nickel	9.54	0.536	0.214
Potassium	1890	107	32.1
Selenium	ND	0.536	0.214
Silver	ND	0.536	0.0536
Sodium	129	107	53.6
Strontium	19.2	0.536	0.268
Thallium	0.215J	0.428	0.0536
Tin	ND	10.7	5.36
Titanium	999	1.07	0.536
Vanadium	30.3	0.536	0.0536
Zinc	56.2	5.36	1.61
Lithium	27.7	2.14	1.07
Phosphorus	334	12.9	6.43
Zirconium	ND	5.36	2.68

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/14/12
Project    : SSFL PHASE 3                     Date Received: 06/15/12
SDG NO.    : 12F102                           Date Extracted: 06/21/12 14:00
Sample ID: SL-707-SA5C-SB-13.0-14.0         Date Analyzed: 06/25/12 19:43
Lab Samp ID: F102-18                          Dilution Factor: 0.995
Lab File ID: 98F11066                         Matrix          : SOIL
Ext Btch ID: IMF041S                          % Moisture     : 8.7
Calib. Ref.: 98F11060                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9190	109	13.1
Antimony	0.255J	0.545	0.109
Arsenic	5.04	0.545	0.218
Barium	88.3	0.545	0.218
Beryllium	0.377J	0.545	0.0545
Boron	ND	5.45	2.72
Cadmium	0.232J	0.545	0.0545
Calcium	3120	21.8	10.9
Chromium	18.6	0.545	0.218
Cobalt	5.69	0.545	0.0545
Copper	8.01	0.545	0.218
Iron	19200	109	10.9
Lead	3.40	0.545	0.109
Magnesium	4650	10.9	5.45
Manganese	612	0.545	0.272
Molybdenum	0.437J	0.545	0.0545
Nickel	15.0	0.545	0.218
Potassium	2200	109	32.7
Selenium	ND	0.545	0.218
Silver	ND	0.545	0.0545
Sodium	152	109	54.5
Strontium	14.4	0.545	0.272
Thallium	0.242J	0.436	0.0545
Tin	ND	10.9	5.45
Titanium	1080	1.09	0.545
Vanadium	33.7	0.545	0.0545
Zinc	51.3	5.45	1.63
Lithium	29.7	2.18	1.09
Phosphorus	423	13.1	6.54
Zirconium	ND	5.45	2.72

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/14/12
Project      : SSFL PHASE 3                     Date Received: 06/15/12
SDG NO.     : 12F102                           Date Extracted: 06/21/12 14:00
Sample ID   : SL-709-SA5C-SB-4.0-5.0          Date Analyzed: 06/25/12 19:48
Lab Samp ID : F102-19                          Dilution Factor: 0.990
Lab File ID : 98F11067                        Matrix          : SOIL
Ext Btch ID : IMF041S                         % Moisture     : 11.6
Calib. Ref. : 98F11060                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16300	112	13.4
Antimony	0.175J	0.560	0.112
Arsenic	4.84	0.560	0.224
Barium	111	0.560	0.224
Beryllium	0.786	0.560	0.0560
Boron	ND	5.60	2.80
Cadmium	0.166J	0.560	0.0560
Calcium	2400	22.4	11.2
Chromium	19.9	0.560	0.224
Cobalt	7.58	0.560	0.0560
Copper	6.55	0.560	0.224
Iron	21500	112	11.2
Lead	6.82	0.560	0.112
Magnesium	3990	11.2	5.60
Manganese	301	0.560	0.280
Molybdenum	0.585	0.560	0.0560
Nickel	10.2	0.560	0.224
Potassium	1620	112	33.6
Selenium	ND	0.560	0.224
Silver	ND	0.560	0.0560
Sodium	123	112	56.0
Strontium	24.4	0.560	0.280
Thallium	0.252J	0.448	0.0560
Tin	ND	11.2	5.60
Titanium	950	1.12	0.560
Vanadium	38.9	0.560	0.0560
Zinc	39.6	5.60	1.68
Lithium	17.6	2.24	1.12
Phosphorus	109	13.4	6.72
Zirconium	ND	5.60	2.80

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/14/12
Project     : SSFL PHASE 3                     Date Received: 06/15/12
SDG NO.    : 12F102                           Date Extracted: 06/21/12 14:00
Sample ID:  SL-709-SA5C-SB-9.0-10.0          Date Analyzed: 06/25/12 19:52
Lab Samp ID: F102-20                          Dilution Factor: 0.990
Lab File ID: 98F11068                        Matrix          : SOIL
Ext Btch ID: IMF041S                          % Moisture     : 12.0
Calib. Ref.: 98F11060                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14000	112	13.5
Antimony	0.790	0.562	0.112
Arsenic	3.40	0.562	0.225
Barium	92.1	0.562	0.225
Beryllium	0.633	0.562	0.0563
Boron	ND	5.62	2.81
Cadmium	0.205J	0.562	0.0563
Calcium	2640	22.5	11.2
Chromium	16.9	0.562	0.225
Cobalt	5.18	0.562	0.0563
Copper	7.86	0.562	0.225
Iron	19300	112	11.2
Lead	5.60	0.562	0.112
Magnesium	3430	11.2	5.62
Manganese	237	0.562	0.281
Molybdenum	0.832	0.562	0.0563
Nickel	9.57	0.562	0.225
Potassium	2050	112	33.7
Selenium	ND	0.562	0.225
Silver	ND	0.562	0.0563
Sodium	165	112	56.3
Strontium	22.5	0.562	0.281
Thallium	0.209J	0.450	0.0563
Tin	ND	11.2	5.62
Titanium	890	1.12	0.562
Vanadium	31.5	0.562	0.0563
Zinc	57.4	5.62	1.69
Lithium	17.2	2.25	1.12
Phosphorus	167	13.5	6.75
Zirconium	ND	5.62	2.81

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/21/12
SDG NO.     : 12F102                           Date Extracted: 06/21/12 14:00
Sample ID   : MBLK1S                           Date Analyzed: 06/25/12 17:35
Lab Samp ID : IMF041SB                         Dilution Factor: 1
Lab File ID : 98F11038                        Matrix          : SOIL
Ext Btch ID : IMF041S                          % Moisture     : NA
Calib. Ref. : 98F11036                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F102  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF041SB IMF041SL IMF041SC  
LAB FILE ID: 98F11038 98F11039 98F11040  
DATIME EXTRACTD: 06/21/1214:00 06/21/1214:00 06/21/1214:00 DATE COLLECTED: NA  
DATIME ANALYZD: 06/25/1217:35 06/25/1217:40 06/25/1217:44 DATE RECEIVED: 06/21/12  
PREP. BATCH: IMF041S IMF041S IMF041S  
CALIB. REF: 98F11036 98F11036 98F11036

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2510	100	2500	2520	101	0	80-120	20
Antimony	ND	25.0	24.8	99	25.0	24.6	98	1	80-120	20
Arsenic	ND	25.0	23.7	95	25.0	24.1	97	2	80-120	20
Barium	ND	25.0	25.0	100	25.0	24.7	99	1	80-120	20
Beryllium	ND	25.0	25.5	102	25.0	25.1	100	2	80-120	20
Boron	ND	25.0	25.7	103	25.0	25.5	102	1	80-120	20
Cadmium	ND	25.0	24.4	98	25.0	24.2	97	1	80-120	20
Calcium	ND	2500	2640	106	2500	2650	106	0	80-120	20
Chromium	ND	25.0	24.2	97	25.0	24.1	96	1	80-120	20
Cobalt	ND	25.0	24.3	97	25.0	24.3	97	0	80-120	20
Copper	ND	25.0	23.9	96	25.0	23.6	94	1	80-120	20
Iron	ND	2500	2580	103	2500	2590	103	0	80-120	20
Lead	ND	25.0	24.8	99	25.0	24.6	99	1	80-120	20
Magnesium	ND	2500	2490	100	2500	2500	100	0	80-120	20
Manganese	ND	25.0	24.9	100	25.0	24.9	100	0	80-120	20
Molybdenum	ND	25.0	24.5	98	25.0	24.3	97	1	80-120	20
Nickel	ND	25.0	23.8	95	25.0	23.6	94	1	80-120	20
Potassium	ND	2500	2630	105	2500	2620	105	0	80-120	20
Selenium	ND	25.0	23.7	95	25.0	23.7	95	0	80-120	20
Silver	ND	25.0	24.9	100	25.0	24.5	98	2	80-120	20
Sodium	ND	2500	2540	101	2500	2560	103	1	80-120	20
Strontium	ND	25.0	24.8	99	25.0	24.7	99	1	80-120	20
Thallium	ND	25.0	24.6	98	25.0	24.7	99	0	80-120	20
Tin	ND	25.0	27.3	109	25.0	26.9	108	1	80-120	20
Titanium	ND	25.0	24.7	99	25.0	24.7	99	0	80-120	20
Vanadium	ND	25.0	24.1	96	25.0	24.0	96	0	80-120	20
Zinc	ND	50.0	46.9	94	50.0	46.8	94	0	80-120	20
Lithium	ND	25.0	25.2	101	25.0	25.0	100	1	80-120	20
Phosphorus	ND	250	237	95	250	237	95	0	80-120	20
Zirconium	ND	25.0	25.4	102	25.0	25.6	102	0	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F102  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 10.4  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-703-SA5C-SB-4.0-5.0  
CONTROL NO.: F120-23 F120-23A  
LAB FILE ID: 98F11044 98F11043  
DATIME EXTRACTD: 06/21/1214:00 06/21/1214:00 DATE COLLECTED: 06/18/12  
DATIME ANALYZD: 06/25/1218:02 06/25/1217:58 DATE RECEIVED: 06/18/12  
PREP. BATCH: IMF041S IMF041S  
CALIB. REF: 98F11036 98F11036

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	19300	2790	22300	107	75-125
Antimony	0.207J	27.9	27.5	98	75-125
Arsenic	4.71	27.9	29.5	89	75-125
Barium	95.2	27.9	125	106	75-125
Beryllium	0.907	27.9	28.8	100	75-125
Boron	ND	27.9	29.4	106	75-125
Cadmium	0.235J	27.9	26.9	96	75-125
Calcium	2550	2790	5340	100	75-125
Chromium	20.5	27.9	44.6	86	75-125
Cobalt	5.64	27.9	30.1	88	75-125
Copper	6.94	27.9	30.2	83	75-125
Iron	23000	2790	25500	90	75-125
Lead	6.61	27.9	33.1	95	75-125
Magnesium	4340	2790	7030	96	75-125
Manganese	216	27.9	240	87	75-125
Molybdenum	0.469J	27.9	27.6	97	75-125
Nickel	11.4	27.9	34.9	84	75-125
Potassium	2170	2790	5120	106	75-125
Selenium	ND	27.9	25.5	91	75-125
Silver	ND	27.9	26.4	95	75-125
Sodium	630	2790	3290	95	75-125
Strontium	28.5	27.9	55.2	96	75-125
Thallium	0.273J	27.9	26.9	95	75-125
Tin	ND	27.9	30.9	111	75-125
Titanium	1080	27.9	1130	158*	75-125
Vanadium	38.9	27.9	63.4	88	75-125
Zinc	46.9	55.8	95.9	88	75-125
Lithium	23.4	27.9	52.3	104	75-125
Phosphorus	176	279	414	85	75-125
Zirconium	ND	27.9	28.9	104	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 10.4  
DILUTION FACTOR: 1.00 5.00  
SAMPLE ID: SL-703-SA5C-SB SL-703-SA5C-SB  
EMAX SAMP ID: F120-23 F120-23J  
LAB FILE ID: 98F11044 98F11045  
DATE EXTRACTED: 06/21/1214:00 06/21/1214:00 DATE COLLECTED: 06/18/12  
DATE ANALYZED: 06/25/1218:02 06/25/1218:07 DATE RECEIVED: 06/18/12  
PREP. BATCH: IMF041S IMF041S  
CALIB. REF: 98F11036 98F11036

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	19300	20600	7	10
Antimony	0.207J	ND	NA	10
Arsenic	4.71	4.96	5	10
Barium	95.2	92.4	3	10
Beryllium	0.907	0.961J	NA	10
Boron	ND	ND	0	10
Cadmium	0.235J	ND	NA	10
Calcium	2550	2750	8	10
Chromium	20.5	21.8	6	10
Cobalt	5.64	6.11	8	10
Copper	6.94	7.62	10	10
Iron	23000	24500	6	10
Lead	6.61	6.59	0	10
Magnesium	4340	4670	8	10
Manganese	216	236	9	10
Molybdenum	0.469J	0.488J	NA	10
Nickel	11.4	12.5	10	10
Potassium	2170	2300	6	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	630	637	1	10
Strontium	28.5	28.4	0	10
Thallium	0.273J	0.280J	2	10
Tin	ND	ND	0	10
Titanium	1080	1120	4	10
Vanadium	38.9	40.7	4	10
Zinc	46.9	49.0	5	10
Lithium	23.4	22.2	5	10
Phosphorus	176	192	9	10
Zirconium	ND	ND	0	10

METHOD 7470A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F102  
=====

Matrix : WATER  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGF026WB	ND	1	NA	0.000500	0.000100	06/22/1214:26	06/22/1210:29	M47F017010	M47F017008	HGF026W	NA	06/22/12
LCS1W	HGF026WL	0.00485	1	NA	0.000500	0.000100	06/22/1214:28	06/22/1210:29	M47F017011	M47F017008	HGF026W	NA	06/22/12
LCD1W	HGF026WC	0.00485	1	NA	0.000500	0.000100	06/22/1214:31	06/22/1210:29	M47F017012	M47F017008	HGF026W	NA	06/22/12
EB-061412	F102-01	ND	1	NA	0.000500	0.000100	06/22/1216:49	06/22/1210:29	M47F017075	M47F017068	HGF026W	06/14/12	06/15/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F102  
METHOD: 7470A

=====

MATRIX:	WATER			% MOISTURE:	NA
DILTN FACTR:	1	1	1		
SAMPLE ID:	MBLK1W				
CONTROL NO.:	HGF026WB	HGF026WL	HGF026WC		
LAB FILE ID:	M47F017010	M47F017011	M47F017012		
DATIME EXTRCTD:	06/22/1210:29	06/22/1210:29	06/22/1210:29	DATE COLLECTED:	NA
DATIME ANALYZD:	06/22/1214:26	06/22/1214:28	06/22/1214:31	DATE RECEIVED:	06/22/12
PREP. BATCH:	HGF026W	HGF026W	HGF026W		
CALIB. REF:	M47F017008	M47F017008	M47F017008		

ACCESSION:

PARAMETER	BLNK RSLT	SPIKE AMT	BS RSLT	BS	SPIKE AMT	BSD RSLT	BSD	RPD	QC LIMIT	MAX RPD
	mg/L	mg/L	mg/L	% REC	mg/L	mg/L	% REC	%	%	%
	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mercury	ND	.005	.00485	97	.005	.00485	97	0	90-115	20

METHOD 7471A  
 MERCURY BY COLD VAPOR

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F102

Matrix : SOIL  
 Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS		RL		MDL (mg/kg)	Analysis DATETIME	Extraction		CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
		(mg/kg)	DLF	MOIST	(mg/kg)			DATETIME	LFID				
MBLK1S	HGF023SB	ND	1	NA	0.100	0.0500	06/21/1214:53	06/21/1212:30	M47F015010	M47F015008	HGF023S	NA	06/21/12
LCS1S	HGF023SL	0.805	1	NA	0.100	0.0500	06/21/1214:55	06/21/1212:30	M47F015011	M47F015008	HGF023S	NA	06/21/12
LCD1S	HGF023SC	0.808	1	NA	0.100	0.0500	06/21/1214:57	06/21/1212:30	M47F015012	M47F015008	HGF023S	NA	06/21/12
SL-716-SA5C-SB-5.5-6.5	F102-02	ND	0.998	7.4	0.108	0.0539	06/21/1215:28	06/21/1212:30	M47F015026	M47F015020	HGF023S	06/13/12	06/15/12
SL-715-SA5C-SB-6.0-7.0	F102-04	ND	0.985	6.5	0.105	0.0527	06/21/1215:29	06/21/1212:30	M47F015027	M47F015020	HGF023S	06/14/12	06/15/12
SL-719-SA5C-SB-6.0-7.0	F102-05	ND	0.998	7.1	0.107	0.0537	06/21/1215:31	06/21/1212:30	M47F015028	M47F015020	HGF023S	06/14/12	06/15/12
SL-711-SA5C-SB-9.0-10.0	F102-06	ND	1.00	7.7	0.108	0.0542	06/21/1215:33	06/21/1212:30	M47F015029	M47F015020	HGF023S	06/14/12	06/15/12
SL-711-SA5C-SB-4.0-5.0	F102-08	ND	0.998	10.1	0.111	0.0555	06/21/1215:35	06/21/1212:30	M47F015030	M47F015020	HGF023S	06/14/12	06/15/12
SL-712-SA5C-SB-9.0-10.0	F102-10	ND	0.990	10.2	0.110	0.0551	06/21/1215:38	06/21/1212:30	M47F015031	M47F015020	HGF023S	06/14/12	06/15/12
SL-712-SA5C-SB-4.0-5.0	F102-13	ND	1.00	11.5	0.113	0.0565	06/21/1215:45	06/21/1212:30	M47F015034	M47F015032	HGF023S	06/14/12	06/15/12
SL-713-SA5C-SB-6.0-7.0	F102-15	ND	1.00	7.1	0.108	0.0538	06/21/1215:47	06/21/1212:30	M47F015035	M47F015032	HGF023S	06/14/12	06/15/12
SL-707-SA5C-SB-13.0-14.0	F102-18	ND	0.993	8.7	0.109	0.0544	06/21/1215:49	06/21/1212:30	M47F015036	M47F015032	HGF023S	06/14/12	06/15/12
SL-709-SA5C-SB-4.0-5.0	F102-19	ND	0.987	11.6	0.112	0.0558	06/21/1215:51	06/21/1212:30	M47F015037	M47F015032	HGF023S	06/14/12	06/15/12
SL-709-SA5C-SB-9.0-10.0	F102-20	ND	0.995	12.0	0.113	0.0565	06/21/1215:53	06/21/1212:30	M47F015038	M47F015032	HGF023S	06/14/12	06/15/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F102  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF023SB HGF023SL HGF023SC  
LAB FILE ID: M47F015010 M47F015011 M47F015012  
DATIME EXTRCTD: 06/21/1212:30 06/21/1212:30 06/21/1212:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/21/1214:53 06/21/1214:55 06/21/1214:57 DATE RECEIVED: 06/21/12  
PREP. BATCH: HGF023S HGF023S HGF023S  
CALIB. REF: M47F015008 M47F015008 M47F015008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.805	97	.833	.808	97	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F102  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.2  
DILTN FACTR: 0.992 0.992  
SAMPLE ID: SL-702-SA5C-SB-4.0-5.0  
CONTROL NO.: F120-11 F120-11A  
LAB FILE ID: M47F015014 M47F015013  
DATIME EXTRACTD: 06/21/1212:30 06/21/1212:30 DATE COLLECTED: 06/18/12  
DATIME ANALYZD: 06/21/1215:01 06/21/1214:59 DATE RECEIVED: 06/18/12  
PREP. BATCH: HGF023S HGF023S  
CALIB. REF: M47F015008 M47F015008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.92	.948	103	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F102  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.2  
 DILUTION FACTOR: 0.992 4.96  
 SAMPLE ID: SL-702-SA5C-SB-4.0- SL-702-SA5C-SB-4.0-  
 EMAX SAMP ID: F120-11 F120-11J  
 LAB FILE ID: M47F015014 M47F015015  
 DATE EXTRACTED: 06/21/1212:30 06/21/1212:30 DATE COLLECTED: 06/18/12  
 DATE ANALYZED: 06/21/1215:01 06/21/1215:04 DATE RECEIVED: 06/18/12  
 PREP. BATCH: HGF023S HGF023S  
 CALIB. REF: M47F015008 M47F015008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F102  
 =====

Matrix : WATER  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLF003WB	ND	1	NA	0.200	0.100	06/26/1215:23	NA	MF26020	MF26015	PLF003W	NA	NA
LCS1W	PLF003WL	1.09	1	NA	0.200	0.100	06/26/1215:38	NA	MF26021	MF26015	PLF003W	NA	NA
LCD1W	PLF003WC	1.15	1	NA	0.200	0.100	06/26/1215:52	NA	MF26022	MF26015	PLF003W	NA	NA
EB-061412	F102-01	ND	1	NA	0.200	0.100	06/26/1216:06	NA	MF26023	MF26015	PLF003W	06/14/1214:30	06/15/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLF003WB PLF003WL PLF003WC  
LAB FILE ID: MF26020 MF26021 MF26022  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1215:23 06/26/1215:38 06/26/1215:52 DATE RECEIVED: NA  
PREP. BATCH: PLF003W PLF003W PLF003W  
CALIB. REF: MF26015 MF26015 MF26015

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	1.09	109	1.00	1.15	115	5	85-115	20

METHOD 7199  
 HEXAVALENT CHROMIUM

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F102

Matrix : WATER  
 Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCF019WB	ND	1	NA	0.200	0.100	06/15/1213:38	NA	IF15009	IF15007	HCF019W	NA	NA
MBLK1W	HCF019WQ	ND	1	NA	0.200	0.100	06/15/1213:48	NA	IF15010	IF15007	HCF019W	NA	NA
EB-061412	F102-01	ND	1	NA	0.200	0.100	06/15/1213:59	NA	IF15011	IF15007	HCF019W	06/14/1214:30	06/15/12
EB-061412	F102-01R	ND	1	NA	0.200	0.100	06/15/1214:09	NA	IF15012	IF15007	HCF019W	06/14/1214:30	06/15/12
LCS1W	HCF019WL	2.08	1	NA	0.200	0.100	06/15/1214:20	NA	IF15013	IF15007	HCF019W	NA	NA
LCS1W	HCF019WX	2.01	1	NA	0.200	0.100	06/15/1214:30	NA	IF15014	IF15007	HCF019W	NA	NA
LCD1W	HCF019WC	2.04	1	NA	0.200	0.100	06/15/1214:40	NA	IF15015	IF15007	HCF019W	NA	NA
LCD1W	HCF019WY	2.09	1	NA	0.200	0.100	06/15/1214:51	NA	IF15016	IF15007	HCF019W	NA	NA

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCF019WB HCF019WL HCF019WC  
LAB FILE ID: IF15009 IF15013 IF15015  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/15/1213:38 06/15/1214:20 06/15/1214:40 DATE RECEIVED: NA  
PREP. BATCH: HCF019W HCF019W HCF019W  
CALIB. REF: IF15007 IF15007 IF15007

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	2.08	104	2.00	2.04	102	2	80-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCF019WQ HCF019WX HCF019WY  
LAB FILE ID: IF15010 IF15014 IF15016  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/15/1213:48 06/15/1214:30 06/15/1214:51 DATE RECEIVED: NA  
PREP. BATCH: HCF019W HCF019W HCF019W  
CALIB. REF: IF15007 IF15007 IF15007

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	2.01	100	2.00	2.09	104	4	80-120	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F102  
 =====

Matrix : SOIL  
 Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF MOIST		RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCF006SB	ND	1	NA	1.00	0.500	06/20/1214:28	06/19/1213:52	IF20003	IF20001	HCF006S	NA	06/19/12
MBLK1S	HCF006SQ	ND	1	NA	1.00	0.500	06/20/1214:38	06/19/1213:52	IF20004	IF20001	HCF006S	NA	06/19/12
LCS1S	CSF006SL	8.78	1	NA	1.00	0.500	06/20/1214:48	06/19/1213:52	IF20005	IF20001	HCF006S	NA	06/19/12
LCS1S	CSF006SX	9.05	1	NA	1.00	0.500	06/20/1214:59	06/19/1213:52	IF20006	IF20001	HCF006S	NA	06/19/12
LCS2S	CIF006SL	264	20	NA	20.0	10.0	06/20/1215:09	06/19/1213:52	IF20007	IF20001	HCF006S	NA	06/19/12
LCS2S	CIF006SX	264	20	NA	20.0	10.0	06/20/1215:20	06/19/1213:52	IF20008	IF20001	HCF006S	NA	06/19/12
SL-715-SA5C-SB-6.0-7.0	F102-04	ND	1	6.5	1.07	0.535	06/20/1217:14	06/19/1213:52	IF20019	IF20013	HCF006S	06/14/1211:20	06/15/12
SL-715-SA5C-SB-6.0-7.0	F102-04R	ND	1	6.5	1.07	0.535	06/20/1217:24	06/19/1213:52	IF20020	IF20013	HCF006S	06/14/1211:20	06/15/12

EMAX QUALITY CONTROL DATA

LCS ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F102  
 METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
 DILUTION FACTOR: 1 1  
 SAMPLE ID: MBLK1S  
 LAB SAMP ID: HCF006SB CSF006SL  
 LAB FILE ID: IF20003 IF20005  
 DATE EXTRACTED: 06/19/1213:52 06/19/1213:52 DATE COLLECTED: NA  
 DATE ANALYZED: 06/20/1214:28 06/20/1214:48 DATE RECEIVED: 06/19/12  
 PREP. BATCH: HCF006S HCF006S  
 CALIB. REF: IF20001 IF20001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.78	88	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF006SQ CSF006SX  
LAB FILE ID: IF20004 IF20006  
DATE EXTRACTED: 06/19/1213:52 06/19/1213:52 DATE COLLECTED: NA  
DATE ANALYZED: 06/20/1214:38 06/20/1214:59 DATE RECEIVED: 06/19/12  
PREP. BATCH: HCF006S HCF006S  
CALIB. REF: IF20001 IF20001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
----- Hexavalent Chromium	ND	10.0	9.05	90	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 20  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF006SB CIF006SL  
LAB FILE ID: IF20003 IF20007  
DATE EXTRACTED: 06/19/1213:52 06/19/1213:52 DATE COLLECTED: NA  
DATE ANALYZED: 06/20/1214:28 06/20/1215:09 DATE RECEIVED: 06/19/12  
PREP. BATCH: HCF006S HCF006S  
CALIB. REF: IF20001 IF20001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
----- Hexavalent Chromium	ND	270	264	98	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F102  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 20  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCF006SQ CIF006SX  
LAB FILE ID: IF20004 IF20008  
DATE EXTRACTED: 06/19/1213:52 06/19/1213:52 DATE COLLECTED: NA  
DATE ANALYZED: 06/20/1214:38 06/20/1215:20 DATE RECEIVED: 06/19/12  
PREP. BATCH: HCF006S HCF006S  
CALIB. REF: IF20001 IF20001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	270	264	98	80-120

METHOD 9040C  
PH

```

=====
Client      : CDM
Project     : SSFL PHASE 3
Batch No.  : 12F102
Matrix      : WATER
Instrument ID : 53
=====

```

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB-061412	F102-01	5.66	1 NA	NA	NA	06/15/1211:11	NA	PHF01601	NA	PHF016W	06/14/1214:30	06/15/12
EB-061412	F102-01D	5.60	1 NA	NA	NA	06/15/1211:12	NA	PHF01602	NA	PHF016W	06/14/1214:30	06/15/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.:	12F102	DATE RECEIVED:	06/15/12
SAMPLE ID:	EB-061412	DATE EXTRACTED:	NA
CONTROL NO.:	F102-01D	DATE ANALYZED:	06/15/12 11:12

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	5.66	5.60	0.06	+/-0.1

METHOD 9045D  
PH

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F102

Matrix : SOIL  
Instrument ID : 53

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST (pH Unit)	RL (pH Unit)	MDL	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-716-SA5C-SB-5.5-6.5	F102-02	8.18	1	NA	NA	NA	06/15/1213:32	06/15/1212:31	PHF01701	PHF017S	PHF017S	06/13/1215:24	06/15/12
SL-715-SA5C-SB-6.0-7.0	F102-04	7.77	1	NA	NA	NA	06/15/1213:33	06/15/1212:31	PHF01702	PHF017S	PHF017S	06/14/1211:20	06/15/12
SL-715-SA5C-SB-6.0-7.0DUP	F102-04D	7.79	1	NA	NA	NA	06/15/1213:35	06/15/1212:31	PHF01703	PHF017S	PHF017S	06/14/1211:20	06/15/12
SL-719-SA5C-SB-6.0-7.0	F102-05	8.36	1	NA	NA	NA	06/15/1213:36	06/15/1212:31	PHF01704	PHF017S	PHF017S	06/14/1212:00	06/15/12
SL-711-SA5C-SB-9.0-10.0	F102-06	7.61	1	NA	NA	NA	06/15/1213:37	06/15/1212:31	PHF01705	PHF017S	PHF017S	06/14/1208:46	06/15/12
SL-711-SA5C-SB-4.0-5.0	F102-08	7.90	1	NA	NA	NA	06/15/1213:38	06/15/1212:31	PHF01706	PHF017S	PHF017S	06/14/1208:55	06/15/12
SL-712-SA5C-SB-9.0-10.0	F102-10	7.99	1	NA	NA	NA	06/15/1213:40	06/15/1212:31	PHF01707	PHF017S	PHF017S	06/14/1209:44	06/15/12
SL-712-SA5C-SB-4.0-5.0	F102-13	8.21	1	NA	NA	NA	06/15/1213:42	06/15/1212:31	PHF01708	PHF017S	PHF017S	06/14/1209:50	06/15/12
SL-713-SA5C-6.0-7.0	F102-15	7.79	1	NA	NA	NA	06/15/1213:43	06/15/1212:31	PHF01709	PHF017S	PHF017S	06/14/1210:40	06/15/12
SL-707-SA5C-SB-13.0-14.0	F102-18	8.15	1	NA	NA	NA	06/15/1213:44	06/15/1212:31	PHF01710	PHF017S	PHF017S	06/14/1214:45	06/15/12

EMAX QUALITY CONTROL DATA  
 DUPLICATE ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 METHOD: METHOD 9045D  
 MATRIX: SOIL  
 % MOISTURE: NA

=====

BATCH NO.: 12F102                                      DATE RECEIVED: 06/15/12  
 SAMPLE ID: SL-715-SA5C-SB-6.0-7.0DUP            DATE EXTRACTED: 06/15/12 12:31  
 CONTROL NO.: F102-04D                              DATE ANALYZED: 06/15/12 13:35

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	7.77	7.79	-0.02	+/-0.1

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-699-SA5C-SB-9.0-10.0         Date Analyzed: 07/02/12 21:43
Lab Samp ID  : F120-01                           Dilution Factor: 1
Lab File ID  : RGH019                             Matrix          : SOIL
Ext Btch ID  : SVF054S                            % Moisture     : 12.6
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	215	381.4	56.5	40-130
2-FLUOROBIPHENYL	201	381.4	52.6	45-130
TERPHENYL-D14	297	381.4	77.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-699-SA5C-SB-4.0-5.0          Date Analyzed: 07/02/12 22:02
Lab Samp ID  : F120-03                          Dilution Factor: 1
Lab File ID  : RGH020                           Matrix          : SOIL
Ext Btch ID  : SVF054S                          % Moisture     : 12.5
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	181	380.9	47.6	40-130
2-FLUOROBIPHENYL	179	380.9	46.9	45-130
TERPHENYL-D14	309	380.9	81.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-701-SA5C-SB-9.0-10.0         Date Analyzed: 07/02/12 22:21
Lab Samp ID  : F120-13                          Dilution Factor: 1
Lab File ID  : RGH021                           Matrix          : SOIL
Ext Btch ID  : SVF054S                          % Moisture     : 8.9
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	157	365.9	43.0	40-130
2-FLUOROBIPHENYL	153	365.9	41.8*	45-130
TERPHENYL-D14	306	365.9	83.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-701-SA5C-SB-4.0-5.0          Date Analyzed: 07/02/12 22:41
Lab Samp ID  : F120-15                          Dilution Factor: 1
Lab File ID  : RGH022                           Matrix          : SOIL
Ext Btch ID  : SVF054S                          % Moisture      : 10.6
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	183	372.8	49.1	40-130
2-FLUOROBIPHENYL	171	372.8	45.8	45-130
TERPHENYL-D14	292	372.8	78.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/27/12 14:04
Sample ID:   SL-703-SA5C-SB-9.0-10.0          Date Analyzed: 07/02/12 23:00
Lab Samp ID: F120-21                           Dilution Factor: 1
Lab File ID: RGH023                             Matrix          : SOIL
Ext Btch ID: SVF054S                            % Moisture     : 11.8
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	235	377.9	62.1	40-130
2-FLUOROBIPHENYL	219	377.9	57.9	45-130
TERPHENYL-D14	307	377.9	81.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-703-SA5C-SB-4.0-5.0          Date Analyzed: 07/02/12 23:19
Lab Samp ID  : F120-23                          Dilution Factor: 1
Lab File ID  : RGH024                           Matrix          : SOIL
Ext Btch ID  : SVF054S                          % Moisture     : 10.4
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	231	372.0	62.0	40-130
2-FLUOROBIPHENYL	219	372.0	58.8	45-130
TERPHENYL-D14	277	372.0	74.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/27/12
Batch No.    : 12F120                           Date Extracted: 06/27/12 14:04
Sample ID    : MBLK1S                           Date Analyzed: 07/02/12 20:46
Lab Samp ID  : SVF054SB                         Dilution Factor: 1
Lab File ID  : RGH016                           Matrix          : SOIL
Ext Btch ID  : SVF054S                          % Moisture     : NA
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	215	333.3	64.4	40-130
2-FLUOROBIPHENYL	208	333.3	62.5	45-130
TERPHENYL-D14	267	333.3	80.1	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF054SB SVF054SL SVF054SC  
LAB FILE ID: RGH016 RGH014 RGH015  
DATE EXTRACTED: 06/27/1214:04 06/27/1214:04 06/27/1214:04 DATE COLLECTED: NA  
DATE ANALYZED: 07/02/1220:46 07/02/1220:07 07/02/1220:27 DATE RECEIVED: 06/27/12  
PREP. BATCH: SVF054S SVF054S SVF054S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	275	83	333	297	89	7	10-130	50
Acenaphthylene	ND	333	293	88	333	314	94	7	20-130	50
Anthracene	ND	333	257	77	333	290	87	12	20-130	50
Benzo (a) anthracene	ND	333	296	89	333	370	111	22	30-130	50
Benzo (a) pyrene	ND	333	305	92	333	350	105	14	30-130	50
Benzo (b) fluoranthene	ND	333	333	100	333	374	112	11	40-130	50
Benzo (k) fluoranthene	ND	333	307	92	333	358	107	15	30-140	50
Benzo (g, h, i) perylene	ND	333	327	98	333	375	113	14	30-140	50
Chrysene	ND	333	289	87	333	357	107	21	30-140	50
Dibenzo (a, h) anthracene	ND	333	336	101	333	385	116	14	40-140	50
Fluoranthene	ND	333	301	90	333	352	105	15	30-130	50
Fluorene	ND	333	291	87	333	316	95	8	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	336	101	333	385	116	14	20-160	50
Naphthalene	ND	333	263	79	333	276	83	5	10-130	50
Phenanthrene	ND	333	264	79	333	298	89	12	20-130	50
2-Methylnaphthalene	ND	333	277	83	333	292	88	5	30-150	50
1-Methylnaphthalene	ND	333	278	84	333	294	88	5	30-150	50
N-Nitrosodimethylamine	ND	333	247	74	333	260	78	5	30-150	50
Pyrene	ND	333	292	88	333	346	104	17	20-150	50
Azobenzene	ND	333	237	71	333	268	80	12	30-150	50
Benzo (e) pyrene	ND	333	272	81	333	319	96	16	30-150	50
Biphenyl	ND	333	209	63	333	233	70	11	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	226	68	333	228	68	40-130
2-Fluorobiphenyl	333	220	66	333	224	67	45-130
Terphenyl-d14	333	275	83	333	310	93	45-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/21/12 16:02
Sample ID    : TB-061812                        Date Analyzed: 06/21/12 16:02
Lab Samp ID  : F120-17                          Dilution Factor: 1
Lab File ID  : EF20034A                         Matrix          : WATER
Ext Btch ID  : VG39F12                          % Moisture     : NA
Calib. Ref.  : EF20027A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	41J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	34.5	40.00	86.3 60-140

RL : Reporting Limit  
 Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.   : 12F120                           Date Extracted: 06/21/12 09:24
Sample ID   : MBLK1W                           Date Analyzed: 06/21/12 09:24
Lab Samp ID: VG39F12B                          Dilution Factor: 1
Lab File ID: EF20024A                          Matrix          : WATER
Ext Btch ID: VG39F12                           % Moisture     : NA
Calib. Ref.: EF20015A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	35.6	40.00	89.0 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F12B VG39F12L VG39F12C  
LAB FILE ID: EF20024A EF20025A EF20026A  
DATE EXTRACTED: 06/21/1209:24 06/21/1210:07 06/21/1210:51 DATE COLLECTED: NA  
DATE ANALYZED: 06/21/1209:24 06/21/1210:07 06/21/1210:51 DATE RECEIVED: 06/21/12  
PREP. BATCH: VG39F12 VG39F12 VG39F12  
CALIB. REF: EF20015A EF20015A EF20015A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	417	83	500	450	90	8	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	42.5	106	40.0	43.0	107	60-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/20/12 07:26
Sample ID    : SL-699-SA5C-SB-10.0             Date Analyzed: 06/20/12 07:26
Lab Samp ID  : F120-02                          Dilution Factor: 0.88
Lab File ID  : EF18065A                        Matrix          : SOIL
Ext Btch ID  : GMF012S                         % Moisture     : 11.9
Calib. Ref.  : EF18059A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.81	1.998	90.6	70-140

RL : Reporting Limit  
 Methanol Extraction: 06/19/12 09:36

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/20/12 08:09
Sample ID    : SL-699-SA5C-SB-5.0              Date Analyzed: 06/20/12 08:09
Lab Samp ID  : F120-04                          Dilution Factor: 0.76
Lab File ID  : EF18066A                        Matrix          : SOIL
Ext Btch ID  : GMF012S                         % Moisture     : 12.8
Calib. Ref.  : EF18059A                       Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.87	0.44
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.54	1.743	88.2 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/19/12 09:36

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/20/12 08:52
Sample ID:   SL-700-SA5C-SB-5.0                 Date Analyzed: 06/20/12 08:52
Lab Samp ID: F120-05                             Dilution Factor: 0.83
Lab File ID: EF18067A                            Matrix          : SOIL
Ext Btch ID: GMF012S                             % Moisture     : 11.3
Calib. Ref.: EF18059A                           Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.94	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.51	1.871	80.5 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/19/12 09:36

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/18/12
Project     : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.   : 12F120                           Date Extracted: 06/20/12 11:44
Sample ID   : SL-1000-SA5C-SB-5.0             Date Analyzed: 06/20/12 11:44
Lab Samp ID : F120-06                          Dilution Factor: 1
Lab File ID : EF18071A                        Matrix          : SOIL
Ext Btch ID : GMF012S                          % Moisture     : 10.7
Calib. Ref. : EF18070A                        Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.56
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	2.01	2.240	89.6 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/19/12 09:36

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/20/12 12:27
Sample ID:   SL-700-SA5C-SB-10.0                Date Analyzed: 06/20/12 12:27
Lab Samp ID: F120-09                             Dilution Factor: 0.9
Lab File ID: EF18072A                            Matrix          : SOIL
Ext Btch ID: GMF012S                             % Moisture     : 11.9
Calib. Ref.: EF18070A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.83	2.043	89.6 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/19/12 09:36

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/18/12
Project     : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.   : 12F120                           Date Extracted: 06/20/12 13:10
Sample ID   : SL-701-SA5C-SB-5.0              Date Analyzed: 06/20/12 13:10
Lab Samp ID: F120-14                           Dilution Factor: 0.8
Lab File ID: EF18073A                          Matrix          : SOIL
Ext Btch ID: GMF012S                            % Moisture     : 8.3
Calib. Ref.: EF18070A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.87	0.44
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.59	1.745	90.9 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/19/12 09:36

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/20/12 13:53
Sample ID    : SL-701-SA5C-SB-10.0             Date Analyzed: 06/20/12 13:53
Lab Samp ID  : F120-16                          Dilution Factor: 0.92
Lab File ID  : EF18074A                        Matrix          : SOIL
Ext Btch ID  : GMF012S                         % Moisture     : 14.0
Calib. Ref.  : EF18070A                       Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.53

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.87	2.140	87.5	70-140

RL : Reporting Limit  
 Methanol Extraction: 06/19/12 09:36

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/20/12 14:36
Sample ID:   SL-703-SA5C-SB-10.0               Date Analyzed: 06/20/12 14:36
Lab Samp ID: F120-22                           Dilution Factor: 0.84
Lab File ID: EF18075A                          Matrix          : SOIL
Ext Btch ID: GMF012S                            % Moisture     : 11.1
Calib. Ref.: EF18070A                          Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.94	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.60	1.890	84.6 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/19/12 09:36

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/20/12 15:19
Sample ID    : SL-703-SA5C-SB-5.0              Date Analyzed: 06/20/12 15:19
Lab Samp ID  : F120-24                         Dilution Factor: 0.89
Lab File ID  : EF18076A                       Matrix          : SOIL
Ext Btch ID  : GMF012S                        % Moisture     : 6.4
Calib. Ref.  : EF18070A                       Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.95	0.48
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.62	1.902	85.2 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/19/12 09:36

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.  : 12F120                           Date Extracted: 06/19/12 17:03
Sample ID  : MBLK1S                            Date Analyzed: 06/19/12 17:03
Lab Samp ID: GMF012SB                         Dilution Factor: 1
Lab File ID: EF18045A                         Matrix          : SOIL
Ext Btch ID: GMF012S                          % Moisture     : NA
Calib. Ref.: EF18036A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.78	2.000	89.2	60-130

RL : Reporting Limit  
 Methanol Extraction: 06/19/12 09:36

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF012SB GMF012SL GMF012SC  
LAB FILE ID: EF18045A EF18046A EF18047A  
DATE EXTRACTED: 06/19/1217:03 06/19/1217:46 06/19/1218:29 DATE COLLECTED: NA  
DATE ANALYZED: 06/19/1217:03 06/19/1217:46 06/19/1218:29 DATE RECEIVED: 06/19/12  
PREP. BATCH: GMF012S GMF012S GMF012S  
CALIB. REF: EF18036A EF18036A EF18036A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	21.9	88	25.0	21.8	87	1	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.33	116	2.00	2.39	120	60-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: 11.3  
DILUTION FACTOR: 0.83 0.85 0.88  
SAMPLE ID: SL-700-SA5C-SB-5.0  
LAB SAMP ID: F120-05 F120-05M F120-05S  
LAB FILE ID: EF18067A EF18068A EF18069A  
DATE EXTRACTED: 06/20/1208:52 06/20/1209:35 06/20/1210:18 DATE COLLECTED: 06/18/12  
DATE ANALYZED: 06/20/1208:52 06/20/1209:35 06/20/1210:18 DATE RECEIVED: 06/18/12  
PREP. BATCH: GMF012S GMF012S GMF012S  
CALIB. REF: EF18059A EF18059A EF18059A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	24.0	17.4	73	24.8	20.1	81	10	50-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	1.92	1.92	100	1.98	2.07	104	70-140

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 06/18/12
Project     : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.   : 12F120                           Date Extracted: 06/19/12 09:10
Sample ID   : SL-703-SA5C-SB-9.0-10.0         Date Analyzed: 06/19/12 11:02
Lab Samp ID: F120-21                           Dilution Factor: 1
Lab File ID: BF19008A                          Matrix          : SOIL
Ext Btch ID: MEF007S                            % Moisture     : 11.8
Calib. Ref.: BF19003A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	570	280
ISOPROPANOL	ND	570	280
METHANOL	ND	570	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                       Date Received: 06/18/12
Batch No.    : 12F120                             Date Extracted: 06/19/12 09:10
Sample ID:   SL-703-SA5C-SB-4.0-5.0              Date Analyzed: 06/19/12 11:28
Lab Samp ID: F120-23                             Dilution Factor: 1
Lab File ID: BF19009A                            Matrix          : SOIL
Ext Btch ID: MEF007S                              % Moisture     : 10.4
Calib. Ref.: BF19003A                            Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	560	280
ISOPROPANOL	ND	560	280
METHANOL	ND	560	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.   : 12F120                           Date Extracted: 06/19/12 09:10
Sample ID   : MBLK1S                           Date Analyzed: 06/19/12 09:36
Lab Samp ID: MEF007SB                         Dilution Factor: 1
Lab File ID: BF19004A                        Matrix          : SOIL
Ext Btch ID: MEF007S                          % Moisture     : NA
Calib. Ref.: BF19003A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEF007SB MEF007SX MEF007SC  
LAB FILE ID: BF19004A BF19007A BF19006A  
DATE EXTRACTED: 06/19/1209:10 06/19/1209:10 06/19/1209:10 DATE COLLECTED: NA  
DATE ANALYZED: 06/19/1209:36 06/19/1210:35 06/19/1210:17 DATE RECEIVED: 06/19/12  
PREP. BATCH: MEF007S MEF007S MEF007S  
CALIB. REF: BF19003A BF19003A BF19003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	10500	105	10000	10700	107	2	50-150	50
Isopropanol	ND	10000	10500	105	10000	11400	114	8	50-150	50
Methanol	ND	10000	11000	110	10000	11700	117	6	50-150	50

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/19/12 09:05
Sample ID    : SL-703-SA5C-SB-9.0-10.0         Date Analyzed: 06/19/12 11:25
Lab Samp ID  : F120-21                          Dilution Factor: 1
Lab File ID  : TF19007A                        Matrix          : SOIL
Ext Btch ID  : PEF007S                         % Moisture     : 11.8
Calib. Ref.  : TF19002A                       Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.5
ETHYLENE GLYCOL	ND	11	5.7
PROPYLENE GLYCOL	ND	11	5.7

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/19/12 09:05
Sample ID    : SL-703-SA5C-SB-4.0-5.0          Date Analyzed: 06/19/12 11:46
Lab Samp ID  : F120-23                          Dilution Factor: 1
Lab File ID  : TF19008A                        Matrix         : SOIL
Ext Btch ID  : PEF007S                         % Moisture    : 10.4
Calib. Ref.  : TF19002A                       Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.4
ETHYLENE GLYCOL	ND	11	5.6
PROPYLENE GLYCOL	ND	11	5.6

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.   : 12F120                           Date Extracted: 06/19/12 09:05
Sample ID   : MBLK1S                           Date Analyzed: 06/19/12 10:33
Lab Samp ID: PEF007SB                         Dilution Factor: 1
Lab File ID: TF19005A                         Matrix          : SOIL
Ext Btch ID: PEF007S                          % Moisture     : NA
Calib. Ref.: TF19002A                         Instrument ID  : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEF007SB PEF007SL PEF007SC  
LAB FILE ID: TF19005A TF19003A TF19004A  
DATE EXTRACTED: 06/19/1209:05 06/19/1209:05 06/19/1209:05 DATE COLLECTED: NA  
DATE ANALYZED: 06/19/1210:33 06/19/1209:34 06/19/1210:04 DATE RECEIVED: 06/19/12  
PREP. BATCH: PEF007S PEF007S PEF007S  
CALIB. REF: TF19002A TF19002A TF19002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	46.4	93	50.0	43.6	87	6	50-150	50
Ethylene Glycol	ND	50.0	44.0	88	50.0	39.9	80	10	50-150	50
Propylene Glycol	ND	25.0	24.4	98	25.0	22.0	88	10	50-150	50

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/21/12 11:21
Sample ID:   SL-699-SA5C-SB-9.0-10.0          Date Analyzed: 06/22/12 19:17
Lab Samp ID: F120-01                           Dilution Factor: 1
Lab File ID: LF21092A                          Matrix          : SOIL
Ext Btch ID: DSF025S                            % Moisture     : 12.6
Calib. Ref.: LF21087A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	ND	5.7	2.9
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	80.4	114.4	70.3	50-150
HEXACOSANE	31.4	28.60	110	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                       Date Received: 06/18/12
Batch No.    : 12F120                             Date Extracted: 06/21/12 11:21
Sample ID:   SL-699-SA5C-SB-4.0-5.0             Date Analyzed: 06/22/12 19:34
Lab Samp ID: F120-03                             Dilution Factor: 1
Lab File ID: LF21093A                            Matrix          : SOIL
Ext Btch ID: DSF025S                             % Moisture     : 12.5
Calib. Ref.: LF21087A                            Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	5.8	5.7	2.9
EFH(C30-C40)	15	11	5.7
TOTAL EFH(C8-C40)	21	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	83.4	114.3	73.0	50-150
HEXACOSANE	31.1	28.57	109	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/21/12 11:21
Sample ID:   SL-700-SA5C-SB-4.0-5.0           Date Analyzed: 06/22/12 19:51
Lab Samp ID: F120-07                           Dilution Factor: 1
Lab File ID: LF21094A                          Matrix          : SOIL
Ext Btch ID: DSF025S                            % Moisture     : 11.0
Calib. Ref.: LF21087A                          Instrument ID  : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	11	5.6	2.8
EFH(C30-C40)	25	11	5.6
TOTAL EFH(C8-C40)	36	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	85.0	112.4	75.6	50-150
HEXACOSANE	32.3	28.09	115	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/21/12 11:21
Sample ID:   SL-1000-SA5C-SB-4.0-5.0           Date Analyzed: 06/22/12 20:42
Lab Samp ID: F120-08                            Dilution Factor: 1
Lab File ID: LF21097A                           Matrix          : SOIL
Ext Btch ID: DSF025S                             % Moisture     : 11.2
Calib. Ref.: LF21087A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	9.3	5.6	2.8
EFH(C30-C40)	16	11	5.6
TOTAL EFH(C8-C40)	25	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	87.3	112.6	77.5	50-150
HEXACOSANE	33.2	28.15	118	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/21/12 11:21
Sample ID    : SL-700-SA5C-SB-9.0-10.0         Date Analyzed: 06/22/12 20:59
Lab Samp ID  : F120-10                           Dilution Factor: 1
Lab File ID  : LF21098A                          Matrix          : SOIL
Ext Btch ID  : DSF025S                           % Moisture     : 10.9
Calib. Ref.  : LF21087A                          Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	22	5.6	2.8
EFH(C30-C40)	42	11	5.6
TOTAL EFH(C8-C40)	64	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	82.5	112.2	73.5	50-150
HEXACOSANE	32.2	28.06	115	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/21/12 11:21
Sample ID:   SL-701-SA5C-SB-9.0-10.0          Date Analyzed: 06/22/12 16:45
Lab Samp ID: F120-13                           Dilution Factor: 1
Lab File ID: LF21083A                          Matrix          : SOIL
Ext Btch ID: DSF025S                           % Moisture     : 8.9
Calib. Ref.: LF21075A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	83.3	109.8	75.9	50-150
HEXACOSANE	31.1	27.44	113	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/21/12 11:21
Sample ID:   SL-701-SA5C-SB-4.0-5.0           Date Analyzed: 06/22/12 17:02
Lab Samp ID: F120-15                           Dilution Factor: 1
Lab File ID: LF21084A                          Matrix          : SOIL
Ext Btch ID: DSF025S                            % Moisture     : 10.6
Calib. Ref.: LF21075A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	84.5	111.9	75.5	50-150
HEXACOSANE	32.0	27.96	114	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                       Date Received: 06/18/12
Batch No.    : 12F120                             Date Extracted: 06/21/12 11:21
Sample ID    : SL-703-SA5C-SB-9.0-10.0           Date Analyzed: 06/22/12 17:36
Lab Samp ID  : F120-21                           Dilution Factor: 1
Lab File ID  : LF21086A                          Matrix          : SOIL
Ext Btch ID  : DSF025S                            % Moisture     : 11.8
Calib. Ref.  : LF21075A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	86.4	113.4	76.2	50-150
HEXACOSANE	32.7	28.34	115	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                       Date Received: 06/18/12
Batch No.    : 12F120                             Date Extracted: 06/21/12 11:21
Sample ID:   SL-703-SA5C-SB-4.0-5.0             Date Analyzed: 06/22/12 17:19
Lab Samp ID: F120-23                             Dilution Factor: 1
Lab File ID: LF21085A                           Matrix          : SOIL
Ext Btch ID: DSF025S                             % Moisture     : 10.4
Calib. Ref.: LF21075A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	84.7	111.6	75.9	50-150
HEXACOSANE	32.0	27.90	115	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/21/12
Batch No.    : 12F120                             Date Extracted: 06/21/12 11:21
Sample ID    : MBLK1S                             Date Analyzed: 06/22/12 16:28
Lab Samp ID  : DSF025SB                           Dilution Factor: 1
Lab File ID  : LF21082A                           Matrix          : SOIL
Ext Btch ID  : DSF025S                             % Moisture      : NA
Calib. Ref.  : LF21075A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.2	100.0	81.2	50-150
HEXACOSANE	27.8	25.00	111	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF025SB DSF025SL DSF025SC  
LAB FILE ID: LF21082A LF21080A LF21081A  
DATE EXTRACTED: 06/21/1211:21 06/21/1211:21 06/21/1211:21 DATE COLLECTED: NA  
DATE ANALYZED: 06/22/1216:28 06/22/1215:54 06/22/1216:11 DATE RECEIVED: 06/21/12  
PREP. BATCH: DSF025S DSF025S DSF025S  
CALIB. REF: LF21075A LF21075A LF21075A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	411	82	500	400	80	3	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	87.3	87	100	87.0	87	50-150
Hexacosane	25.0	28.4	114	25.0	28.2	113	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 11.0  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-700-SA5C-SB-4.0-5.0  
LAB SAMP ID: F120-07 F120-07M F120-07S  
LAB FILE ID: LF21094A LF21095A LF21096A  
DATE EXTRACTED: 06/21/1211:21 06/21/1211:21 06/21/1211:21 DATE COLLECTED: 06/18/12  
DATE ANALYZED: 06/22/1219:51 06/22/1220:08 06/22/1220:25 DATE RECEIVED: 06/18/12  
PREP. BATCH: DSF025S DSF025S DSF025S  
CALIB. REF: LF21087A LF21087A LF21087A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	35.7	562	446	73	562	447	73	0	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	112	88.5	79	112	92.0	82	50-150
Hexacosane	28.1	31.1	111	28.1	31.0	110	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-703-SA5C-SB-9.0-10.0         Date Analyzed: 06/28/12 19:18
Lab Samp ID  : F120-21                          Dilution Factor: 1
Lab File ID  : SF28012A                         Matrix          : SOIL
Ext Btch ID  : CPF033S                           % Moisture     : 11.8
Calib. Ref.  : SF28006A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.89)   20.25	15.11	(112)   134*	45-120
TETRACHLORO-M-XYLENE	(17.39)   14.25	15.11	(115)   94.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
Batch No.    : 12F120                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-703-SA5C-SB-4.0-5.0          Date Analyzed: 06/28/12 19:53
Lab Samp ID  : F120-23                          Dilution Factor: 1
Lab File ID  : SF28013A                         Matrix          : SOIL
Ext Btch ID  : CPF033S                          % Moisture     : 10.4
Calib. Ref.  : SF28006A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(17.37)   20.80	14.88	(117)   140*	45-120
TETRACHLORO-M-XYLENE	(17.01)   14.12	14.88	(114)   94.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/27/12
Batch No.  : 12F120                             Date Extracted: 06/27/12 17:18
Sample ID  : MBLK1S                             Date Analyzed: 06/28/12 17:36
Lab Samp ID: 60F033SB                          Dilution Factor: 1
Lab File ID: SF28009A                          Matrix          : SOIL
Ext Btch ID: CPF033S                            % Moisture     : NA
Calib. Ref.: SF28006A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.53)   17.77	13.33	(117)   133*	45-120
TETRACHLORO-M-XYLENE	(15.09)   12.55	13.33	(113)   94.1	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F033SB 60F033SL 60F033SC  
LAB FILE ID: SF28009A SF28010A SF28011A  
DATE EXTRACTED: 06/27/1217:18 06/27/1217:18 06/27/1217:18 DATE COLLECTED: NA  
DATE ANALYZED: 06/28/1217:36 06/28/1218:10 06/28/1218:44 DATE RECEIVED: 06/27/12  
PREP. BATCH: CPF033S CPF033S CPF033S  
CALIB. REF: SF28006A SF28006A SF28006A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(165)   173	(99)   104	167	(167)   182	(100)   109	(1)   5	50-130	50
Aroclor 1260	(ND)   ND	167	(179)   196	(107)   118	167	(180)   204	(108)   122	(1)   4	60-150	50
Aroclor 5460	(ND)   ND	83.3	(115)   114	(138)   137	83.3	(116)   115	(139)   138	(1)   1	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(15.55)   18.32	(117)   137*	13.33	(15.38)   18.00	(115)   135*	45-120
Tetrachloro-m-xylene	13.33	(15.05)   12.55	(113)   94.2	13.33	(14.82)   12.70	(111)   95.3	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/18/12
Project    : SSFL PHASE 3                     Date Received: 06/18/12
SDG NO.    : 12F120                           Date Extracted: 06/21/12 14:00
Sample ID  : SL-702-SA5C-SB-4.0-5.0          Date Analyzed: 06/25/12 18:12
Lab Samp ID: F120-11                          Dilution Factor: 0.971
Lab File ID: 98F11046                         Matrix          : SOIL
Ext Btch ID: IMF041S                          % Moisture     : 10.2
Calib. Ref.: 98F11036                         Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19300	108	13.0
Antimony	0.272J	0.541	0.108
Arsenic	5.75	0.541	0.216
Barium	123	0.541	0.216
Beryllium	0.912	0.541	0.0541
Boron	ND	5.41	2.70
Cadmium	0.159J	0.541	0.0541
Calcium	3880	21.6	10.8
Chromium	21.0	0.541	0.216
Cobalt	10.7	0.541	0.0541
Copper	7.57	0.541	0.216
Iron	23700	108	10.8
Lead	7.29	0.541	0.108
Magnesium	4290	10.8	5.41
Manganese	180	0.541	0.270
Molybdenum	0.684	0.541	0.0541
Nickel	10.2	0.541	0.216
Potassium	1790	108	32.4
Selenium	ND	0.541	0.216
Silver	0.0761J	0.541	0.0541
Sodium	440	108	54.1
Strontium	31.6	0.541	0.270
Thallium	0.286J	0.433	0.0541
Tin	ND	10.8	5.41
Titanium	906	1.08	0.541
Vanadium	43.2	0.541	0.0541
Zinc	40.7	5.41	1.62
Lithium	18.9	2.16	1.08
Phosphorus	97.9	13.0	6.49
Zirconium	ND	5.41	2.70

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/18/12
Project    : SSFL PHASE 3                       Date Received: 06/18/12
SDG NO.    : 12F120                             Date Extracted: 06/21/12 14:00
Sample ID  : SL-702-SA5C-SB-9.0-10.0          Date Analyzed: 06/25/12 18:30
Lab Samp ID: F120-12                           Dilution Factor: 0.995
Lab File ID: 98F11050                          Matrix          : SOIL
Ext Btch ID: IMF041S                            % Moisture     : 8.5
Calib. Ref.: 98F11048                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12300	109	13.0
Antimony	0.144J	0.544	0.109
Arsenic	3.39	0.544	0.217
Barium	67.1	0.544	0.217
Beryllium	0.476J	0.544	0.0544
Boron	ND	5.44	2.72
Cadmium	0.150J	0.544	0.0544
Calcium	2190	21.7	10.9
Chromium	15.5	0.544	0.217
Cobalt	3.17	0.544	0.0544
Copper	5.79	0.544	0.217
Iron	16700	109	10.9
Lead	3.77	0.544	0.109
Magnesium	3310	10.9	5.44
Manganese	145	0.544	0.272
Molybdenum	0.654	0.544	0.0544
Nickel	7.26	0.544	0.217
Potassium	1700	109	32.6
Selenium	ND	0.544	0.217
Silver	ND	0.544	0.0544
Sodium	294	109	54.4
Strontium	18.1	0.544	0.272
Thallium	0.196J	0.435	0.0544
Tin	ND	10.9	5.44
Titanium	800	1.09	0.544
Vanadium	24.3	0.544	0.0544
Zinc	40.1	5.44	1.63
Lithium	15.3	2.17	1.09
Phosphorus	159	13.0	6.52
Zirconium	ND	5.44	2.72

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/18/12
Project    : SSFL PHASE 3                       Date Received: 06/18/12
SDG NO.    : 12F120                             Date Extracted: 06/21/12 14:00
Sample ID  : SL-696-SA5C-SB-1.0-2.0           Date Analyzed: 06/25/12 18:35
Lab Samp ID: F120-18                           Dilution Factor: 0.962
Lab File ID: 98F11051                          Matrix          : SOIL
Ext Btch ID: IMF041S                            % Moisture     : 8.9
Calib. Ref.: 98F11048                          Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20800	106	12.7
Antimony	0.241J	0.528	0.106
Arsenic	5.54	0.528	0.211
Barium	113	0.528	0.211
Beryllium	0.816	0.528	0.0528
Boron	ND	5.28	2.64
Cadmium	0.117J	0.528	0.0528
Calcium	2470	21.1	10.6
Chromium	20.1	0.528	0.211
Cobalt	4.36	0.528	0.0528
Copper	5.26	0.528	0.211
Iron	23200	106	10.6
Lead	6.96	0.528	0.106
Magnesium	3860	10.6	5.28
Manganese	143	0.528	0.264
Molybdenum	0.554	0.528	0.0528
Nickel	9.52	0.528	0.211
Potassium	1670	106	31.7
Selenium	ND	0.528	0.211
Silver	0.0591J	0.528	0.0528
Sodium	254	106	52.8
Strontium	25.9	0.528	0.264
Thallium	0.274J	0.422	0.0528
Tin	ND	10.6	5.28
Titanium	852	1.06	0.528
Vanadium	41.6	0.528	0.0528
Zinc	39.0	5.28	1.58
Lithium	17.7	2.11	1.06
Phosphorus	82.7	12.7	6.34
Zirconium	ND	5.28	2.64

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 06/18/12
Project      : SSFL PHASE 3                     Date Received: 06/18/12
SDG NO.     : 12F120                           Date Extracted: 06/21/12 14:00
Sample ID   : SL-696-SA5C-SB-4.0-5.0          Date Analyzed: 06/25/12 18:39
Lab Samp ID : F120-19                          Dilution Factor: 0.976
Lab File ID : 98F11052                        Matrix         : SOIL
Ext Btch ID : IMF041S                         % Moisture    : 8.5
Calib. Ref. : 98F11048                       Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18400	107	12.8
Antimony	0.201J	0.533	0.107
Arsenic	4.81	0.533	0.213
Barium	121	0.533	0.213
Beryllium	0.837	0.533	0.0533
Boron	ND	5.33	2.67
Cadmium	0.201J	0.533	0.0533
Calcium	2660	21.3	10.7
Chromium	19.5	0.533	0.213
Cobalt	6.35	0.533	0.0533
Copper	8.09	0.533	0.213
Iron	22000	107	10.7
Lead	5.74	0.533	0.107
Magnesium	4460	10.7	5.33
Manganese	335	0.533	0.267
Molybdenum	0.391J	0.533	0.0533
Nickel	12.9	0.533	0.213
Potassium	2140	107	32.0
Selenium	ND	0.533	0.213
Silver	ND	0.533	0.0533
Sodium	381	107	53.3
Strontium	30.0	0.533	0.267
Thallium	0.265J	0.427	0.0533
Tin	ND	10.7	5.33
Titanium	1020	1.07	0.533
Vanadium	36.4	0.533	0.0533
Zinc	44.0	5.33	1.60
Lithium	19.8	2.13	1.07
Phosphorus	123	12.8	6.40
Zirconium	ND	5.33	2.67

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/18/12
Project     : SSFL PHASE 3                     Date Received: 06/18/12
SDG NO.    : 12F120                           Date Extracted: 06/21/12 14:00
Sample ID: SL-696-SA5C-SB-9.0-10.0           Date Analyzed: 06/25/12 18:44
Lab Samp ID: F120-20                          Dilution Factor: 0.985
Lab File ID: 98F11053                         Matrix          : SOIL
Ext Btch ID: IMF041S                          % Moisture     : 9.1
Calib. Ref.: 98F11048                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13100	108	13.0
Antimony	0.181J	0.542	0.108
Arsenic	4.89	0.542	0.217
Barium	69.4	0.542	0.217
Beryllium	0.535J	0.542	0.0542
Boron	ND	5.42	2.71
Cadmium	0.175J	0.542	0.0542
Calcium	2360	21.7	10.8
Chromium	16.8	0.542	0.217
Cobalt	4.35	0.542	0.0542
Copper	8.38	0.542	0.217
Iron	19200	108	10.8
Lead	5.26	0.542	0.108
Magnesium	3960	10.8	5.42
Manganese	154	0.542	0.271
Molybdenum	0.373J	0.542	0.0542
Nickel	8.37	0.542	0.217
Potassium	2020	108	32.5
Selenium	ND	0.542	0.217
Silver	ND	0.542	0.0542
Sodium	369	108	54.2
Strontium	22.7	0.542	0.271
Thallium	0.235J	0.433	0.0542
Tin	ND	10.8	5.42
Titanium	938	1.08	0.542
Vanadium	33.5	0.542	0.0542
Zinc	41.4	5.42	1.63
Lithium	17.9	2.17	1.08
Phosphorus	182	13.0	6.50
Zirconium	ND	5.42	2.71

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/18/12
Project     : SSFL PHASE 3                     Date Received: 06/18/12
SDG NO.    : 12F120                           Date Extracted: 06/21/12 14:00
Sample ID: SL-703-SA5C-SB-9.0-10.0           Date Analyzed: 06/25/12 18:48
Lab Samp ID: F120-21                         Dilution Factor: 0.952
Lab File ID: 98F11054                       Matrix          : SOIL
Ext Btch ID: IMF041S                         % Moisture     : 11.8
Calib. Ref.: 98F11048                       Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15100	108	13.0
Antimony	0.214J	0.540	0.108
Arsenic	5.99	0.540	0.216
Barium	81.7	0.540	0.216
Beryllium	0.774	0.540	0.0540
Boron	ND	5.40	2.70
Cadmium	0.198J	0.540	0.0540
Calcium	3010	21.6	10.8
Chromium	20.6	0.540	0.216
Cobalt	4.72	0.540	0.0540
Copper	9.74	0.540	0.216
Iron	22200	108	10.8
Lead	6.52	0.540	0.108
Magnesium	4020	10.8	5.40
Manganese	162	0.540	0.270
Molybdenum	0.989	0.540	0.0540
Nickel	8.93	0.540	0.216
Potassium	1980	108	32.4
Selenium	ND	0.540	0.216
Silver	ND	0.540	0.0540
Sodium	360	108	54.0
Strontium	27.8	0.540	0.270
Thallium	0.241J	0.432	0.0540
Tin	ND	10.8	5.40
Titanium	1000	1.08	0.540
Vanadium	41.4	0.540	0.0540
Zinc	44.7	5.40	1.62
Lithium	19.5	2.16	1.08
Phosphorus	206	13.0	6.48
Zirconium	ND	5.40	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/18/12
Project     : SSFL PHASE 3                     Date Received: 06/18/12
SDG NO.    : 12F120                           Date Extracted: 06/21/12 14:00
Sample ID:  SL-703-SA5C-SB-4.0-5.0           Date Analyzed: 06/25/12 18:02
Lab Samp ID: F120-23                          Dilution Factor: 1.00
Lab File ID: 98F11044                         Matrix          : SOIL
Ext Btch ID: IMF041S                          % Moisture     : 10.4
Calib. Ref.: 98F11036                         Instrument ID  : T-198
=====
  
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19300	112	13.4
Antimony	0.207J	0.558	0.112
Arsenic	4.71	0.558	0.223
Barium	95.2	0.558	0.223
Beryllium	0.907	0.558	0.0558
Boron	ND	5.58	2.79
Cadmium	0.235J	0.558	0.0558
Calcium	2550	22.3	11.2
Chromium	20.5	0.558	0.223
Cobalt	5.64	0.558	0.0558
Copper	6.94	0.558	0.223
Iron	23000	112	11.2
Lead	6.61	0.558	0.112
Magnesium	4340	11.2	5.58
Manganese	216	0.558	0.279
Molybdenum	0.469J	0.558	0.0558
Nickel	11.4	0.558	0.223
Potassium	2170	112	33.5
Selenium	ND	0.558	0.223
Silver	ND	0.558	0.0558
Sodium	630	112	55.8
Strontium	28.5	0.558	0.279
Thallium	0.273J	0.446	0.0558
Tin	ND	11.2	5.58
Titanium	1080	1.12	0.558
Vanadium	38.9	0.558	0.0558
Zinc	46.9	5.58	1.67
Lithium	23.4	2.23	1.12
Phosphorus	176	13.4	6.70
Zirconium	ND	5.58	2.79

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/21/12
SDG NO.     : 12F120                           Date Extracted: 06/21/12 14:00
Sample ID   : MBLK1S                            Date Analyzed: 06/25/12 17:35
Lab Samp ID : IMF041SB                          Dilution Factor: 1
Lab File ID : 98F11038                          Matrix         : SOIL
Ext Btch ID : IMF041S                            % Moisture     : NA
Calib. Ref. : 98F11036                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F120  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF041SB IMF041SL IMF041SC  
LAB FILE ID: 98F11038 98F11039 98F11040  
DATIME EXTRACTD: 06/21/1214:00 06/21/1214:00 06/21/1214:00 DATE COLLECTED: NA  
DATIME ANALYZD: 06/25/1217:35 06/25/1217:40 06/25/1217:44 DATE RECEIVED: 06/21/12  
PREP. BATCH: IMF041S IMF041S IMF041S  
CALIB. REF: 98F11036 98F11036 98F11036

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2510	100	2500	2520	101	0	80-120	20
Antimony	ND	25.0	24.8	99	25.0	24.6	98	1	80-120	20
Arsenic	ND	25.0	23.7	95	25.0	24.1	97	2	80-120	20
Barium	ND	25.0	25.0	100	25.0	24.7	99	1	80-120	20
Beryllium	ND	25.0	25.5	102	25.0	25.1	100	2	80-120	20
Boron	ND	25.0	25.7	103	25.0	25.5	102	1	80-120	20
Cadmium	ND	25.0	24.4	98	25.0	24.2	97	1	80-120	20
Calcium	ND	2500	2640	106	2500	2650	106	0	80-120	20
Chromium	ND	25.0	24.2	97	25.0	24.1	96	1	80-120	20
Cobalt	ND	25.0	24.3	97	25.0	24.3	97	0	80-120	20
Copper	ND	25.0	23.9	96	25.0	23.6	94	1	80-120	20
Iron	ND	2500	2580	103	2500	2590	103	0	80-120	20
Lead	ND	25.0	24.8	99	25.0	24.6	99	1	80-120	20
Magnesium	ND	2500	2490	100	2500	2500	100	0	80-120	20
Manganese	ND	25.0	24.9	100	25.0	24.9	100	0	80-120	20
Molybdenum	ND	25.0	24.5	98	25.0	24.3	97	1	80-120	20
Nickel	ND	25.0	23.8	95	25.0	23.6	94	1	80-120	20
Potassium	ND	2500	2630	105	2500	2620	105	0	80-120	20
Selenium	ND	25.0	23.7	95	25.0	23.7	95	0	80-120	20
Silver	ND	25.0	24.9	100	25.0	24.5	98	2	80-120	20
Sodium	ND	2500	2540	101	2500	2560	103	1	80-120	20
Strontium	ND	25.0	24.8	99	25.0	24.7	99	1	80-120	20
Thallium	ND	25.0	24.6	98	25.0	24.7	99	0	80-120	20
Tin	ND	25.0	27.3	109	25.0	26.9	108	1	80-120	20
Titanium	ND	25.0	24.7	99	25.0	24.7	99	0	80-120	20
Vanadium	ND	25.0	24.1	96	25.0	24.0	96	0	80-120	20
Zinc	ND	50.0	46.9	94	50.0	46.8	94	0	80-120	20
Lithium	ND	25.0	25.2	101	25.0	25.0	100	1	80-120	20
Phosphorus	ND	250	237	95	250	237	95	0	80-120	20
Zirconium	ND	25.0	25.4	102	25.0	25.6	102	0	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F120  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 10.4  
DILT N FACTR: 1.00 0.990 0.980  
SAMPLE ID: SL-703-SA5C-SB-4.0-5.0  
CONTROL NO.: F120-23 F120-23M F120-23S  
LAB FILE ID: 98F11044 98F11041 98F11042  
DATIME EXTRACTD: 06/21/1214:00 06/21/1214:00 06/21/1214:00 DATE COLLECTED: 06/18/12  
DATIME ANALYZD: 06/25/1218:02 06/25/1217:49 06/25/1217:53 DATE RECEIVED: 06/18/12  
PREP. BATCH: IMF041S IMF041S IMF041S  
CALIB. REF: 98F11036 98F11036 98F11036

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	19300	2760	22800	127*	2730	22200	105	3	75-125	20
Antimony	0.207J	27.6	21.1	76	27.3	22.7	82	7	75-125	20
Arsenic	4.71	27.6	29.2	89	27.3	29.0	89	1	75-125	20
Barium	95.2	27.6	120	88	27.3	125	109	4	75-125	20
Beryllium	0.907	27.6	29.4	103	27.3	28.9	102	2	75-125	20
Boron	ND	27.6	28.6	103	27.3	28.0	103	2	75-125	20
Cadmium	0.235J	27.6	27.3	98	27.3	27.1	98	1	75-125	20
Calcium	2550	2760	5120	93	2730	5090	93	0	75-125	20
Chromium	20.5	27.6	45.1	89	27.3	44.4	87	2	75-125	20
Cobalt	5.64	27.6	29.3	86	27.3	28.6	84	2	75-125	20
Copper	6.94	27.6	30.2	84	27.3	29.8	84	1	75-125	20
Iron	23000	2760	23600	21*	2730	24100	40*	2	75-125	20
Lead	6.61	27.6	32.8	95	27.3	32.5	95	1	75-125	20
Magnesium	4340	2760	6990	96	2730	6860	92	2	75-125	20
Manganese	216	27.6	195	-74*	27.3	201	-53*	3	75-125	20
Molybdenum	0.469J	27.6	27.0	96	27.3	27.0	97	0	75-125	20
Nickel	11.4	27.6	35.0	85	27.3	34.4	84	2	75-125	20
Potassium	2170	2760	5000	102	2730	4980	102	1	75-125	20
Selenium	ND	27.6	25.9	94	27.3	25.1	92	3	75-125	20
Silver	ND	27.6	27.1	98	27.3	26.7	98	1	75-125	20
Sodium	630	2760	3180	92	2730	3150	92	1	75-125	20
Strontium	28.5	27.6	54.7	95	27.3	54.8	96	0	75-125	20
Thallium	0.273J	27.6	27.1	97	27.3	26.6	96	2	75-125	20
Tin	ND	27.6	31.7	115	27.3	31.4	115	1	75-125	20
Titanium	1080	27.6	1110	105	27.3	1080	-5*	3	75-125	20
Vanadium	38.9	27.6	61.8	83	27.3	61.0	81	1	75-125	20
Zinc	46.9	55.2	96.1	89	54.7	95.9	90	0	75-125	20
Lithium	23.4	27.6	52.7	106	27.3	52.7	107	0	75-125	20
Phosphorus	176	276	395	79	273	388	77	2	75-125	20
Zirconium	ND	27.6	28.0	101	27.3	26.7	98	5	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F120  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 10.4  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-703-SA5C-SB-4.0-5.0  
CONTROL NO.: F120-23 F120-23A  
LAB FILE ID: 98F11044 98F11043  
DATIME EXTRACTD: 06/21/1214:00 06/21/1214:00 DATE COLLECTED: 06/18/12  
DATIME ANALYZD: 06/25/1218:02 06/25/1217:58 DATE RECEIVED: 06/18/12  
PREP. BATCH: IMF041S IMF041S  
CALIB. REF: 98F11036 98F11036

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	19300	2790	22300	107	75-125
Antimony	0.207J	27.9	27.5	98	75-125
Arsenic	4.71	27.9	29.5	89	75-125
Barium	95.2	27.9	125	106	75-125
Beryllium	0.907	27.9	28.8	100	75-125
Boron	ND	27.9	29.4	106	75-125
Cadmium	0.235J	27.9	26.9	96	75-125
Calcium	2550	2790	5340	100	75-125
Chromium	20.5	27.9	44.6	86	75-125
Cobalt	5.64	27.9	30.1	88	75-125
Copper	6.94	27.9	30.2	83	75-125
Iron	23000	2790	25500	90	75-125
Lead	6.61	27.9	33.1	95	75-125
Magnesium	4340	2790	7030	96	75-125
Manganese	216	27.9	240	87	75-125
Molybdenum	0.469J	27.9	27.6	97	75-125
Nickel	11.4	27.9	34.9	84	75-125
Potassium	2170	2790	5120	106	75-125
Selenium	ND	27.9	25.5	91	75-125
Silver	ND	27.9	26.4	95	75-125
Sodium	630	2790	3290	95	75-125
Strontium	28.5	27.9	55.2	96	75-125
Thallium	0.273J	27.9	26.9	95	75-125
Tin	ND	27.9	30.9	111	75-125
Titanium	1080	27.9	1130	158*	75-125
Vanadium	38.9	27.9	63.4	88	75-125
Zinc	46.9	55.8	95.9	88	75-125
Lithium	23.4	27.9	52.3	104	75-125
Phosphorus	176	279	414	85	75-125
Zirconium	ND	27.9	28.9	104	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F120  
 METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 10.4  
 DILUTION FACTOR: 1.00 5.00  
 SAMPLE ID: SL-703-SA5C-SB SL-703-SA5C-SB  
 EMAX SAMP ID: F120-23 F120-23J  
 LAB FILE ID: 98F11044 98F11045  
 DATE EXTRACTED: 06/21/1214:00 06/21/1214:00 DATE COLLECTED: 06/18/12  
 DATE ANALYZED: 06/25/1218:02 06/25/1218:07 DATE RECEIVED: 06/18/12  
 PREP. BATCH: IMF041S IMF041S  
 CALIB. REF: 98F11036 98F11036

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	19300	20600	7	10
Antimony	0.207J	ND	NA	10
Arsenic	4.71	4.96	5	10
Barium	95.2	92.4	3	10
Beryllium	0.907	0.961J	NA	10
Boron	ND	ND	0	10
Cadmium	0.235J	ND	NA	10
Calcium	2550	2750	8	10
Chromium	20.5	21.8	6	10
Cobalt	5.64	6.11	8	10
Copper	6.94	7.62	10	10
Iron	23000	24500	6	10
Lead	6.61	6.59	0	10
Magnesium	4340	4670	8	10
Manganese	216	236	9	10
Molybdenum	0.469J	0.488J	NA	10
Nickel	11.4	12.5	10	10
Potassium	2170	2300	6	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	630	637	1	10
Strontium	28.5	28.4	0	10
Thallium	0.273J	0.280J	2	10
Tin	ND	ND	0	10
Titanium	1080	1120	4	10
Vanadium	38.9	40.7	4	10
Zinc	46.9	49.0	5	10
Lithium	23.4	22.2	5	10
Phosphorus	176	192	9	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F120

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGF023SB	ND	1	NA	0.100	0.0500	06/21/1214:53	06/21/1212:30	M47F015010	M47F015008	HGF023S	NA	06/21/12
LCS1S	HGF023SL	0.805	1	NA	0.100	0.0500	06/21/1214:55	06/21/1212:30	M47F015011	M47F015008	HGF023S	NA	06/21/12
LCD1S	HGF023SC	0.808	1	NA	0.100	0.0500	06/21/1214:57	06/21/1212:30	M47F015012	M47F015008	HGF023S	NA	06/21/12
SL-702-SA5C-SB-4.0-5.0AS	F120-11A	0.948	0.992	10.2	0.110	0.0552	06/21/1214:59	06/21/1212:30	M47F015013	M47F015008	HGF023S	06/18/12	06/18/12
SL-702-SA5C-SB-4.0-5.0	F120-11	ND	0.992	10.2	0.110	0.0552	06/21/1215:01	06/21/1212:30	M47F015014	M47F015008	HGF023S	06/18/12	06/18/12
SL-702-SA5C-SB-4.0-5.0DL	F120-11J	ND	4.96	10.2	0.552	0.276	06/21/1215:04	06/21/1212:30	M47F015015	M47F015008	HGF023S	06/18/12	06/18/12
SL-702-SA5C-SB-4.0-5.0MS	F120-11M	0.949	0.987	10.2	0.110	0.0550	06/21/1215:06	06/21/1212:30	M47F015016	M47F015008	HGF023S	06/18/12	06/18/12
SL-702-SA5C-SB-4.0-5.0MSD	F120-11S	0.953	0.993	10.2	0.111	0.0553	06/21/1215:08	06/21/1212:30	M47F015017	M47F015008	HGF023S	06/18/12	06/18/12
SL-702-SA5C-SB-9.0-10.0	F120-12	ND	0.997	8.5	0.109	0.0545	06/21/1215:10	06/21/1212:30	M47F015018	M47F015008	HGF023S	06/18/12	06/18/12
SL-696-SA5C-SB-1.0-2.0	F120-18	ND	0.984	8.9	0.108	0.0540	06/21/1215:12	06/21/1212:30	M47F015019	M47F015008	HGF023S	06/18/12	06/18/12
SL-696-SA5C-SB-4.0-5.0	F120-19	ND	0.995	8.5	0.109	0.0544	06/21/1215:19	06/21/1212:30	M47F015022	M47F015020	HGF023S	06/18/12	06/18/12
SL-696-SA5C-SB-9.0-10.0	F120-20	ND	0.987	9.1	0.109	0.0543	06/21/1215:21	06/21/1212:30	M47F015023	M47F015020	HGF023S	06/18/12	06/18/12
SL-703-SA5C-SB-9.0-10.0	F120-21	ND	0.992	11.8	0.112	0.0562	06/21/1215:23	06/21/1212:30	M47F015024	M47F015020	HGF023S	06/18/12	06/18/12
SL-703-SA5C-SB-4.0-5.0	F120-23	ND	1.00	10.4	0.112	0.0558	06/21/1215:26	06/21/1212:30	M47F015025	M47F015020	HGF023S	06/18/12	06/18/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F120  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF023SB HGF023SL HGF023SC  
LAB FILE ID: M47F015010 M47F015011 M47F015012  
DATIME EXTRCTD: 06/21/1212:30 06/21/1212:30 06/21/1212:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/21/1214:53 06/21/1214:55 06/21/1214:57 DATE RECEIVED: 06/21/12  
PREP. BATCH: HGF023S HGF023S HGF023S  
CALIB. REF: M47F015008 M47F015008 M47F015008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.805	97	.833	.808	97	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F120  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.2  
DILTN FACTR: 0.992 0.987 0.993  
SAMPLE ID: SL-702-SA5C-SB-4.0-5.0  
CONTROL NO.: F120-11 F120-11M F120-11S  
LAB FILE ID: M47F015014 M47F015016 M47F015017  
DATIME EXTRCTD: 06/21/1212:30 06/21/1212:30 06/21/1212:30 DATE COLLECTED: 06/18/12  
DATIME ANALYZD: 06/21/1215:01 06/21/1215:06 06/21/1215:08 DATE RECEIVED: 06/18/12  
PREP. BATCH: HGF023S HGF023S HGF023S  
CALIB. REF: M47F015008 M47F015008 M47F015008

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.916	.949	104	.921	.953	103	1	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F120  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.2  
DILTN FACTR: 0.992 0.992  
SAMPLE ID: SL-702-SA5C-SB-4.0-5.0  
CONTROL NO.: F120-11 F120-11A  
LAB FILE ID: M47F015014 M47F015013  
DATIME EXTRCTD: 06/21/1212:30 06/21/1212:30 DATE COLLECTED: 06/18/12  
DATIME ANALYZD: 06/21/1215:01 06/21/1214:59 DATE RECEIVED: 06/18/12  
PREP. BATCH: HGF023S HGF023S  
CALIB. REF: M47F015008 M47F015008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.92	.948	103	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F120  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	10.2
DILUTION FACTOR:	0.992	4.96		
SAMPLE ID:	SL-702-SA5C-SB-4.0-	SL-702-SA5C-SB-4.0-		
EMAX SAMP ID:	F120-11	F120-11J		
LAB FILE ID:	M47F015014	M47F015015		
DATE EXTRACTED:	06/21/1212:30	06/21/1212:30	DATE COLLECTED:	06/18/12
DATE ANALYZED:	06/21/1215:01	06/21/1215:04	DATE RECEIVED:	06/18/12
PREP. BATCH:	HGF023S	HGF023S		
CALIB. REF:	M47F015008	M47F015008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 7199  
 HEXAVALENT CHROMIUM

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F120

Matrix : SOIL  
 Instrument ID : I59

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCG001SB	ND	1	NA	1.00	0.500	07/06/1210:31	07/05/1216:38	IG06003	IG06001	HCG001S	NA	07/05/12
MBLK1S	HCG001SQ	ND	1	NA	1.00	0.500	07/06/1210:41	07/05/1216:38	IG06004	IG06001	HCG001S	NA	07/05/12
LCS1S	CSG001SL	8.59	1	NA	1.00	0.500	07/06/1215:29	07/05/1216:38	IG06007	IG06005	HCG001S	NA	07/05/12
LCS1S	CSG001SX	8.72	1	NA	1.00	0.500	07/06/1215:40	07/05/1216:38	IG06008	IG06005	HCG001S	NA	07/05/12
LCS2S	CIG001SL	178	10	NA	10.0	5.00	07/06/1215:50	07/05/1216:38	IG06009	IG06005	HCG001S	NA	07/05/12
LCS2S	CIG001SX	199	10	NA	10.0	5.00	07/06/1216:00	07/05/1216:38	IG06010	IG06005	HCG001S	NA	07/05/12
SL-703-SA5C-SB-9.0-10.0	F120-21	ND	1	11.8	1.13	0.567	07/06/1216:11	07/05/1216:38	IG06011	IG06005	HCG001S	06/18/1215:10	06/18/12
SL-703-SA5C-SB-9.0-10.0	F120-21R	ND	1	11.8	1.13	0.567	07/06/1216:21	07/05/1216:38	IG06012	IG06005	HCG001S	06/18/1215:10	06/18/12
SL-703-SA5C-SB-4.0-5.0	F120-23	ND	1	10.4	1.12	0.558	07/06/1216:32	07/05/1216:38	IG06013	IG06005	HCG001S	06/18/1215:05	06/18/12
SL-703-SA5C-SB-4.0-5.0	F120-23R	ND	1	10.4	1.12	0.558	07/06/1216:42	07/05/1216:38	IG06014	IG06005	HCG001S	06/18/1215:05	06/18/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCG001SB CSG001SL  
LAB FILE ID: IG06003 IG06007  
DATE EXTRACTED: 07/05/1216:38 07/05/1216:38 DATE COLLECTED: NA  
DATE ANALYZED: 07/06/1210:31 07/06/1215:29 DATE RECEIVED: 07/05/12  
PREP. BATCH: HCG001S HCG001S  
CALIB. REF: IG06001 IG06005

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
----- Hexavalent Chromium	ND	10.0	8.59	86	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCG001SQ CSG001SX  
LAB FILE ID: IG06004 IG06008  
DATE EXTRACTED: 07/05/1216:38 07/05/1216:38 DATE COLLECTED: NA  
DATE ANALYZED: 07/06/1210:41 07/06/1215:40 DATE RECEIVED: 07/05/12  
PREP. BATCH: HCG001S HCG001S  
CALIB. REF: IG06001 IG06005

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.72	87	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCG001SB CIG001SL  
LAB FILE ID: IG06003 IG06009  
DATE EXTRACTED: 07/05/1216:38 07/05/1216:38 DATE COLLECTED: NA  
DATE ANALYZED: 07/06/1210:31 07/06/1215:50 DATE RECEIVED: 07/05/12  
PREP. BATCH: HCG001S HCG001S  
CALIB. REF: IG06001 IG06005

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
----- Hexavalent Chromium	ND	219	178	81	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F120  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCG001SQ CIG001SX  
LAB FILE ID: IG06004 IG06010  
DATE EXTRACTED: 07/05/1216:38 07/05/1216:38 DATE COLLECTED: NA  
DATE ANALYZED: 07/06/1210:41 07/06/1216:00 DATE RECEIVED: 07/05/12  
PREP. BATCH: HCG001S HCG001S  
CALIB. REF: IG06001 IG06005

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	219	199	91	80-120

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F120  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL	MDL	Analysis	Extraction	LFID	CAL REF	PREP BATCH	Collection	Received
					(pH Unit)	(pH Unit)	DATETIME	DATETIME				DATETIME	DATETIME
SL-702-SA5C-SB-4.0-5.0	F120-11	8.28	1	10.2	NA	NA	06/19/1213:13	06/19/1212:22	12PHF019S01	PHF019S	PHF019S	06/18/1209:57	06/18/12
SL-702-SA5C-SB-9.0-10.0	F120-12	8.17	1	8.5	NA	NA	06/19/1213:15	06/19/1212:22	12PHF019S02	PHF019S	PHF019S	06/18/1210:00	06/18/12
SL-703-SA5C-SB-9.0-10.0	F120-21	8.29	1	11.8	NA	NA	06/19/1213:16	06/19/1212:22	12PHF019S03	PHF019S	PHF019S	06/18/1215:10	06/18/12
SL-703-SA5C-SB-9.0-10.0DUP	F120-21D	8.28	1	11.8	NA	NA	06/19/1213:17	06/19/1212:22	12PHF019S04	PHF019S	PHF019S	06/18/1215:10	06/18/12
SL-703-SA5C-SB-4.0-5.0	F120-23	8.20	1	10.4	NA	NA	06/19/1213:19	06/19/1212:22	12PHF019S05	PHF019S	PHF019S	06/18/1215:05	06/18/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12F120	DATE RECEIVED:	06/18/12
SAMPLE ID:	SL-703-SA5C-SB-9.0-10.0DUP	DATE EXTRACTED:	06/19/12 12:22
CONTROL NO.:	F120-21D	DATE ANALYZED:	06/19/12 13:17

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	8.29	8.28	0.01	+/- 0.1

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-527-SA5C-SB-4.0-5.0          Date Analyzed: 07/02/12 23:38
Lab Samp ID  : F132-01                           Dilution Factor: 1
Lab File ID  : RGH025                             Matrix          : SOIL
Ext Btch ID  : SVF054S                           % Moisture     : 8.6
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	145	364.7	39.8*	40-130
2-FLUOROBIPHENYL	142	364.7	38.8*	45-130
TERPHENYL-D14	257	364.7	70.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-528-SA5C-SB-4.0-5.0          Date Analyzed: 07/02/12 23:57
Lab Samp ID  : F132-03                          Dilution Factor: 1
Lab File ID  : RGH026                           Matrix          : SOIL
Ext Btch ID  : SVF054S                          % Moisture     : 6.7
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	177	357.2	49.5	40-130
2-FLUOROBIPHENYL	160	357.2	44.7*	45-130
TERPHENYL-D14	242	357.2	67.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-828-SA5C-SB-4.0-5.0          Date Analyzed: 07/03/12 00:17
Lab Samp ID  : F132-05                           Dilution Factor: 1
Lab File ID  : RGH027                             Matrix          : SOIL
Ext Btch ID  : SVF054S                           % Moisture      : 6.5
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	ND	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	137	356.5	38.3*	40-130
2-FLUOROBIPHENYL	142	356.5	39.9*	45-130
TERPHENYL-D14	306	356.5	85.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID:   SL-572-SA5C-SB-0.0-0.5            Date Analyzed: 07/03/12 00:36
Lab Samp ID: F132-07                            Dilution Factor: 1
Lab File ID: RGH028                             Matrix          : SOIL
Ext Btch ID: SVF054S                            % Moisture     : 11.3
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	246	375.8	65.4	40-130
2-FLUOROBIPHENYL	222	375.8	59.2	45-130
TERPHENYL-D14	316	375.8	84.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-572-SA5C-SB-4.0-5.0          Date Analyzed: 07/03/12 00:55
Lab Samp ID  : F132-08                           Dilution Factor: 1
Lab File ID  : RGH029                             Matrix          : SOIL
Ext Btch ID  : SVF054S                            % Moisture     : 5.8
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	3.7J	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	3.5J	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	3.0J	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	151	353.8	42.6	40-130
2-FLUOROBIPHENYL	139	353.8	39.2*	45-130
TERPHENYL-D14	216	353.8	61.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-872-SA5C-SB-4.0-5.0          Date Analyzed: 07/03/12 01:14
Lab Samp ID  : F132-10                          Dilution Factor: 2
Lab File ID  : RGH030                           Matrix          : SOIL
Ext Btch ID  : SVF054S                          % Moisture     : 6.8
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.4
ACENAPHTHYLENE	ND	21	5.4
ANTHRACENE	ND	21	5.4
BENZO (A) ANTHRACENE	11J	21	5.4
BENZO (A) PYRENE	5.8J	21	5.4
BENZO (B) FLUORANTHENE	6.9J	21	5.4
BENZO (K) FLUORANTHENE	6.0J	21	5.4
BENZO (G, H, I) PERYLENE	ND	21	5.4
CHRYSENE	7.3J	21	5.4
DIBENZO (A, H) ANTHRACENE	ND	21	5.4
FLUORANTHENE	ND	21	5.4
FLUORENE	ND	21	5.4
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.4
NAPHTHALENE	ND	21	5.4
PHENANTHRENE	11J	21	5.4
2-METHYLNAPHTHALENE	ND	21	5.4
1-METHYLNAPHTHALENE	ND	21	5.4
N-NITROSODIMETHYLAMINE	ND	21	5.4
PYRENE	ND	21	5.4
AZOBENZENE	ND	11	5.4
BENZO (E) PYRENE	8.2J	11	5.4
BIPHENYL	ND	11	5.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	159	357.6	44.5	40-130
2-FLUOROBIPHENYL	160	357.6	44.8*	45-130
TERPHENYL-D14	227	357.6	63.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-524-SA5C-SB-4.0-5.0          Date Analyzed: 07/03/12 01:33
Lab Samp ID  : F132-15                           Dilution Factor: 1
Lab File ID  : RGH031                             Matrix          : SOIL
Ext Btch ID  : SVF054S                            % Moisture     : 5.8
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	ND	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	167	353.8	47.3	40-130
2-FLUOROBIPHENYL	162	353.8	45.9	45-130
TERPHENYL-D14	285	353.8	80.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID:   SL-526-SA5C-SB-4.0-5.0           Date Analyzed: 07/03/12 01:53
Lab Samp ID: F132-18                           Dilution Factor: 1
Lab File ID: RGH032                             Matrix          : SOIL
Ext Btch ID: SVF054S                           % Moisture     : 8.8
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	152	365.5	41.7	40-130
2-FLUOROBIPHENYL	140	365.5	38.2*	45-130
TERPHENYL-D14	250	365.5	68.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-526-SA5C-SB-9.0-10.0         Date Analyzed: 07/03/12 02:12
Lab Samp ID  : F132-20                           Dilution Factor: 1
Lab File ID  : RGH033                             Matrix          : SOIL
Ext Btch ID  : SVF054S                           % Moisture      : 8.0
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	126	362.3	34.9*	40-130
2-FLUOROBIPHENYL	120	362.3	33.1*	45-130
TERPHENYL-D14	278	362.3	76.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                          Date Extracted: 06/27/12 14:04
Sample ID    : SL-525-SA5C-SB-4.0-5.0         Date Analyzed: 07/03/12 02:31
Lab Samp ID  : F132-21                         Dilution Factor: 1
Lab File ID  : RGH034                          Matrix          : SOIL
Ext Btch ID  : SVF054S                         % Moisture     : 6.8
Calib. Ref.  : RPH072                          Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	130	357.6	36.3*	40-130
2-FLUOROBIPHENYL	123	357.6	34.5*	45-130
TERPHENYL-D14	267	357.6	74.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID    : SL-525-SA5C-SB-9.0-10.0         Date Analyzed: 07/03/12 02:50
Lab Samp ID  : F132-23                          Dilution Factor: 1
Lab File ID  : RGH035                           Matrix          : SOIL
Ext Btch ID  : SVF054S                          % Moisture     : 7.9
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	2.8J	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	5.1J	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	4.9J	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	183	361.9	50.6	40-130
2-FLUOROBIPHENYL	191	361.9	52.9	45-130
TERPHENYL-D14	299	361.9	82.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID:   SL-670-SA5C-SB-4.0-5.0           Date Analyzed: 07/03/12 03:09
Lab Samp ID: F132-25                           Dilution Factor: 2
Lab File ID: RGH036                             Matrix          : SOIL
Ext Btch ID: SVF054S                            % Moisture     : 6.2
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.3
ACENAPHTHYLENE	ND	21	5.3
ANTHRACENE	ND	21	5.3
BENZO (A) ANTHRACENE	5.8J	21	5.3
BENZO (A) PYRENE	ND	21	5.3
BENZO (B) FLUORANTHENE	ND	21	5.3
BENZO (K) FLUORANTHENE	ND	21	5.3
BENZO (G, H, I) PERYLENE	ND	21	5.3
CHRYSENE	ND	21	5.3
DIBENZO (A, H) ANTHRACENE	ND	21	5.3
FLUORANTHENE	ND	21	5.3
FLUORENE	ND	21	5.3
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.3
NAPHTHALENE	ND	21	5.3
PHENANTHRENE	ND	21	5.3
2-METHYLNAPHTHALENE	ND	21	5.3
1-METHYLNAPHTHALENE	ND	21	5.3
N-NITROSODIMETHYLAMINE	ND	21	5.3
PYRENE	ND	21	5.3
AZOBENZENE	ND	11	5.3
BENZO (E) PYRENE	7.6J	11	5.3
BIPHENYL	ND	11	5.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	173	355.3	48.8	40-130
2-FLUOROBIPHENYL	190	355.3	53.4	45-130
TERPHENYL-D14	315	355.3	88.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID:   SL-670-SA5C-SB-0.0-0.5            Date Analyzed: 07/04/12 02:00
Lab Samp ID: F132-26                           Dilution Factor: 1
Lab File ID: RGH072                            Matrix          : SOIL
Ext Btch ID: SVF054S                           % Moisture     : 11.5
Calib. Ref.: RPH072                            Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	222	376.6	59.0	40-130
2-FLUOROBIPHENYL	216	376.6	57.4	45-130
TERPHENYL-D14	328	376.6	87.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/27/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 14:04
Sample ID    : MBLK1S                           Date Analyzed: 07/02/12 20:46
Lab Samp ID  : SVF054SB                         Dilution Factor: 1
Lab File ID  : RGH016                           Matrix          : SOIL
Ext Btch ID  : SVF054S                          % Moisture     : NA
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	215	333.3	64.4	40-130
2-FLUOROBIPHENYL	208	333.3	62.5	45-130
TERPHENYL-D14	267	333.3	80.1	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 3550B/8270C SIM

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MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF054SB SVF054SL SVF054SC  
LAB FILE ID: RGH016 RGH014 RGH015  
DATE EXTRACTED: 06/27/1214:04 06/27/1214:04 06/27/1214:04 DATE COLLECTED: NA  
DATE ANALYZED: 07/02/1220:46 07/02/1220:07 07/02/1220:27 DATE RECEIVED: 06/27/12  
PREP. BATCH: SVF054S SVF054S SVF054S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	275	83	333	297	89	7	10-130	50
Acenaphthylene	ND	333	293	88	333	314	94	7	20-130	50
Anthracene	ND	333	257	77	333	290	87	12	20-130	50
Benzo (a) anthracene	ND	333	296	89	333	370	111	22	30-130	50
Benzo (a) pyrene	ND	333	305	92	333	350	105	14	30-130	50
Benzo (b) fluoranthene	ND	333	333	100	333	374	112	11	40-130	50
Benzo (k) fluoranthene	ND	333	307	92	333	358	107	15	30-140	50
Benzo (g, h, i) perylene	ND	333	327	98	333	375	113	14	30-140	50
Chrysene	ND	333	289	87	333	357	107	21	30-140	50
Dibenzo (a, h) anthracene	ND	333	336	101	333	385	116	14	40-140	50
Fluoranthene	ND	333	301	90	333	352	105	15	30-130	50
Fluorene	ND	333	291	87	333	316	95	8	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	336	101	333	385	116	14	20-160	50
Naphthalene	ND	333	263	79	333	276	83	5	10-130	50
Phenanthrene	ND	333	264	79	333	298	89	12	20-130	50
2-Methylnaphthalene	ND	333	277	83	333	292	88	5	30-150	50
1-Methylnaphthalene	ND	333	278	84	333	294	88	5	30-150	50
N-Nitrosodimethylamine	ND	333	247	74	333	260	78	5	30-150	50
Pyrene	ND	333	292	88	333	346	104	17	20-150	50
Azobenzene	ND	333	237	71	333	268	80	12	30-150	50
Benzo (e) pyrene	ND	333	272	81	333	319	96	16	30-150	50
Biphenyl	ND	333	209	63	333	233	70	11	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	226	68	333	228	68	40-130
2-Fluorobiphenyl	333	220	66	333	224	67	45-130
Terphenyl-d14	333	275	83	333	310	93	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 6.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-528-SA5C-SB-4.0-5.0  
LAB SAMP ID: F132-03 F132-03M F132-03S  
LAB FILE ID: RGH026 RGH037 RGH038  
DATE EXTRACTED: 06/27/1214:04 06/27/1214:04 06/27/1214:04 DATE COLLECTED: 06/19/12  
DATE ANALYZED: 07/02/1223:57 07/03/1203:29 07/03/1203:48 DATE RECEIVED: 06/19/12  
PREP. BATCH: SVF054S SVF054S SVF054S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	357	219	61	357	176	49	22	10-130	50
Acenaphthylene	ND	357	228	64	357	181	51	23	20-130	50
Anthracene	ND	357	291	82	357	263	74	10	20-130	50
Benzo (a) anthracene	ND	357	316	88	357	288	81	9	30-130	50
Benzo (a) pyrene	ND	357	342	96	357	309	87	10	30-130	50
Benzo (b) fluoranthene	ND	357	425	119	357	372	104	13	30-130	50
Benzo (k) fluoranthene	ND	357	361	101	357	340	95	6	30-130	50
Benzo (g, h, i) perylene	ND	357	305	85	357	283	79	7	30-140	50
Chrysene	ND	357	306	86	357	277	77	10	20-130	50
Dibenzo (a, h) anthracene	ND	357	307	86	357	283	79	8	30-130	50
Fluoranthene	ND	357	334	93	357	306	86	9	30-150	50
Fluorene	ND	357	261	73	357	221	62	16	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	357	305	85	357	282	79	8	20-160	50
Naphthalene	ND	357	158	44	357	128	36	21	10-130	50
Phenanthrene	ND	357	295	83	357	268	75	10	20-130	50
2-Methylnaphthalene	ND	357	185	52	357	147	41	22	30-150	50
1-Methylnaphthalene	ND	357	189	53	357	150	42	23	30-150	50
N-Nitrosodimethylamine	ND	357	168	47	357	145	41	15	20-150	50
Pyrene	ND	357	322	90	357	292	82	10	10-160	50
Azobenzene	ND	357	241	68	357	210	59	14	30-150	50
Benzo (e) pyrene	ND	357	337	94	357	314	88	7	30-150	50
Biphenyl	ND	357	160	45	357	124	35	26	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	357	151	42	357	132	37*	40-130
2-Fluorobiphenyl	357	156	44*	357	126	35*	45-130
Terphenyl-d14	357	301	84	357	288	81	45-135

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 5.8  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-572-SA5C-SB-4.0-5.0  
LAB SAMP ID: F132-08 F132-08M F132-08S  
LAB FILE ID: RGH029 RGH039 RGH073  
DATE EXTRACTED: 06/27/1214:04 06/27/1214:04 06/27/1214:04 DATE COLLECTED: 06/19/12  
DATE ANALYZED: 07/03/1200:55 07/03/1204:07 07/04/1202:20 DATE RECEIVED: 06/19/12  
PREP. BATCH: SVF054S SVF054S SVF054S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	354	199	56	354	223	63	11	10-130	50
Acenaphthylene	ND	354	201	57	354	228	65	13	20-130	50
Anthracene	ND	354	275	78	354	313	88	13	20-130	50
Benzo (a) anthracene	3.71J	354	305	85	354	351	98	14	30-130	50
Benzo (a) pyrene	ND	354	315	89	354	362	102	14	30-130	50
Benzo (b) fluoranthene	ND	354	368	104	354	452	128	21	30-130	50
Benzo (k) fluoranthene	ND	354	348	98	354	378	107	8	30-130	50
Benzo (g, h, i) perylene	ND	354	326	92	354	323	91	1	30-140	50
Chrysene	ND	354	294	83	354	342	97	15	20-130	50
Dibenzo (a, h) anthracene	ND	354	316	89	354	326	92	3	30-130	50
Fluoranthene	ND	354	322	91	354	364	103	12	30-150	50
Fluorene	ND	354	254	72	354	274	78	8	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	354	319	90	354	324	92	2	20-160	50
Naphthalene	ND	354	105	30	354	125	35	18	10-130	50
Phenanthrene	3.55J	354	283	79	354	322	90	13	20-130	50
2-Methylnaphthalene	ND	354	136	39	354	163	46	17	30-150	50
1-Methylnaphthalene	ND	354	143	40	354	169	48	17	30-150	50
N-Nitrosodimethylamine	ND	354	117	33	354	149	42	24	20-150	50
Pyrene	ND	354	309	87	354	349	99	12	10-160	50
Azobenzene	ND	354	225	64	354	262	74	15	30-150	50
Benzo (e) pyrene	3.00J	354	314	88	354	355	100	12	30-150	50
Biphenyl	ND	354	131	37	354	148	42	12	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	354	109	31*	354	130	37*	40-130
2-Fluorobiphenyl	354	129	36*	354	148	42*	45-130
Terphenyl-d14	354	308	87	354	325	92	45-135

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/19/12
Project     : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.   : 12F132                           Date Extracted: 06/22/12 06:19
Sample ID:  SL-527-SA5C-SB-5.0                 Date Analyzed: 06/22/12 06:19
Lab Samp ID: F132-02                           Dilution Factor: 0.89
Lab File ID: EF20054A                           Matrix          : SOIL
Ext Btch ID: GMF014S                             % Moisture     : 10.8
Calib. Ref.: EF20052A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.84	1.996	92.1 70-140

RL : Reporting Limit

Methanol Extraction: 06/20/12 11:34

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client      : CDM                               Date Collected: 06/19/12
Project     : SSFL PHASE 3                       Date Received: 06/19/12
Batch No.   : 12F132                             Date Extracted: 06/22/12 05:36
Sample ID:  SL-528-SA5C-SB-5.0                 Date Analyzed: 06/22/12 05:36
Lab Samp ID: F132-04                           Dilution Factor: 0.89
Lab File ID: EF20053A                           Matrix          : SOIL
Ext Btch ID: GMF014S                            % Moisture     : 7.6
Calib. Ref.: EF20052A                           Instrument ID  : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.96	0.48
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.72	1.926	89.5 70-140

RL : Reporting Limit

Methanol Extraction: 06/20/12 11:34

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 07:02
Sample ID:   SL-828-SA5C-SB-5.0                 Date Analyzed: 06/22/12 07:02
Lab Samp ID: F132-06                             Dilution Factor: 1.06
Lab File ID: EF20055A                            Matrix          : SOIL
Ext Btch ID: GMF014S                             % Moisture     : 8.7
Calib. Ref.: EF20052A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.58
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.92	2.322	82.9 70-140

RL : Reporting Limit

Methanol Extraction: 06/20/12 11:34

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                       Date Received: 06/19/12
Batch No.    : 12F132                             Date Extracted: 06/22/12 12:47
Sample ID    : SL-572-SA5C-SB-5.0                Date Analyzed: 06/22/12 12:47
Lab Samp ID  : F132-09                             Dilution Factor: 0.97
Lab File ID  : EF20063A                           Matrix          : SOIL
Ext Btch ID  : GMF014S                             % Moisture     : 9.7
Calib. Ref.  : EF20052A                           Instrument ID   : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.54
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.84	2.148	85.9 70-140

RL : Reporting Limit

Methanol Extraction: 06/20/12 11:34

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 07:45
Sample ID:   SL-872-SA5C-SB-5.0                 Date Analyzed: 06/22/12 07:45
Lab Samp ID: F132-11                            Dilution Factor: 1.03
Lab File ID: EF20056A                           Matrix          : SOIL
Ext Btch ID: GMF014S                             % Moisture     : 6.7
Calib. Ref.: EF20052A                           Instrument ID   : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.55
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.00	2.208	90.4 70-140

RL : Reporting Limit

Methanol Extraction: 06/20/12 11:34

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 08:28
Sample ID   : SL-524-SA5C-SB-5.0              Date Analyzed: 06/22/12 08:28
Lab Samp ID : F132-16                          Dilution Factor: 0.94
Lab File ID : EF20057A                        Matrix          : SOIL
Ext Btch ID : GMF014S                         % Moisture     : 7.2
Calib. Ref. : EF20052A                        Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
----- GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
----- 4-BROMOFLUOROBENZENE	1.84	2.026	91.0 70-140

RL : Reporting Limit

Methanol Extraction: 06/20/12 11:34

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client      : CDM                               Date Collected: 06/19/12
Project     : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.   : 12F132                           Date Extracted: 06/22/12 09:11
Sample ID:  SL-526-SA5C-SB-5.0                Date Analyzed: 06/22/12 09:11
Lab Samp ID: F132-17                           Dilution Factor: 0.93
Lab File ID: EF20058A                           Matrix          : SOIL
Ext Btch ID: GMF014S                             % Moisture     : 8.6
Calib. Ref.: EF20052A                           Instrument ID  : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.86	2.035	91.3 70-140

RL : Reporting Limit

Methanol Extraction: 06/20/12 11:34

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/19/12
Project     : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.   : 12F132                           Date Extracted: 06/22/12 09:54
Sample ID   : SL-526-SA5C-SB-10.0             Date Analyzed: 06/22/12 09:54
Lab Samp ID: F132-19                           Dilution Factor: 0.98
Lab File ID: EF20059A                          Matrix          : SOIL
Ext Btch ID: GMF014S                            % Moisture     : 7.7
Calib. Ref.: EF20052A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.53
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.92	2.124	90.4 70-140

RL : Reporting Limit

Methanol Extraction: 06/20/12 11:34

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 10:37
Sample ID:   SL-525-SA5C-SB-5.0                Date Analyzed: 06/22/12 10:37
Lab Samp ID: F132-22                           Dilution Factor: 0.84
Lab File ID: EF20060A                           Matrix          : SOIL
Ext Btch ID: GMF014S                            % Moisture     : 11.9
Calib. Ref.: EF20052A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.95	0.48
SURROGATE PARAMETERS			
4-BROMOFLUOROBENZENE	1.61	1.907	70-140

RL : Reporting Limit

Methanol Extraction: 06/20/12 11:34

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 11:21
Sample ID:   SL-525-SA5C-SB-10.0                Date Analyzed: 06/22/12 11:21
Lab Samp ID: F132-24                             Dilution Factor: 0.90
Lab File ID: EF20061A                           Matrix          : SOIL
Ext Btch ID: GMF014S                             % Moisture     : 7.6
Calib. Ref.: EF20052A                           Instrument ID  : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.97	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.68	1.948	86.0 70-140

RL : Reporting Limit

Methanol Extraction: 06/20/12 11:34

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/19/12
Project     : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.   : 12F132                           Date Extracted: 06/22/12 12:04
Sample ID:  SL-670-SA5C-SB-5.0                Date Analyzed: 06/22/12 12:04
Lab Samp ID: F132-27                           Dilution Factor: 0.99
Lab File ID: EF20062A                          Matrix          : SOIL
Ext Btch ID: GMF014S                            % Moisture     : 8.1
Calib. Ref.: EF20052A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.54
SURROGATE PARAMETERS			
4-BROMOFLUOROBENZENE	1.82	2.155	70-140

RL : Reporting Limit

Methanol Extraction: 06/20/12 11:34

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.   : 12F132                           Date Extracted: 06/21/12 22:29
Sample ID   : MBLK1S                           Date Analyzed: 06/21/12 22:29
Lab Samp ID: GMF014SB                         Dilution Factor: 1
Lab File ID: EF20043A                         Matrix          : SOIL
Ext Btch ID: GMF014S                          % Moisture     : NA
Calib. Ref.: EF20040A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.94	2.000	97.2 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF014SB GMF014SL GMF014SC  
LAB FILE ID: EF20043A EF20044A EF20045A  
DATE EXTRACTED: 06/21/1222:29 06/21/1223:12 06/21/1223:55 DATE COLLECTED: NA  
DATE ANALYZED: 06/21/1222:29 06/21/1223:12 06/21/1223:55 DATE RECEIVED: 06/21/12  
PREP. BATCH: GMF014S GMF014S GMF014S  
CALIB. REF: EF20040A EF20040A EF20040A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	23.2	93	25.0	20.5	82	12	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.49	125	2.00	2.24	112	60-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: 7.6  
DILUTION FACTOR: 0.89 1.04 0.94  
SAMPLE ID: SL-528-SA5C-SB-5.0  
LAB SAMP ID: F132-04 F132-04M F132-04S  
LAB FILE ID: EF20053A EF20050A EF20051A  
DATE EXTRACTED: 06/22/1205:36 06/22/1203:28 06/22/1204:11 DATE COLLECTED: 06/19/12  
DATE ANALYZED: 06/22/1205:36 06/22/1203:28 06/22/1204:11 DATE RECEIVED: 06/19/12  
PREP. BATCH: GMF014S GMF014S GMF014S  
CALIB. REF: EF20052A EF20040A EF20040A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	28.1	25.1	89	25.4	20.0	79	12	50-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.25	2.67	119	2.03	2.27	111	70-140

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: 9.7  
DILUTION FACTOR: 0.97 1.01 1  
SAMPLE ID: SL-572-SA5C-SB-5.0  
LAB SAMP ID: F132-09 F132-09M F132-09S  
LAB FILE ID: EF20063A EF20064A EF20065A  
DATE EXTRACTED: 06/22/1212:47 06/22/1213:30 06/22/1214:13 DATE COLLECTED: 06/19/12  
DATE ANALYZED: 06/22/1212:47 06/22/1213:30 06/22/1214:13 DATE RECEIVED: 06/19/12  
PREP. BATCH: GMF014S GMF014S GMF014S  
CALIB. REF: EF20052A EF20052A EF20052A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	28.0	23.2	83	27.7	24.2	87	5	50-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.24	2.48	111	2.21	2.53	114	70-140

METHOD 5030B/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                          Date Extracted: 06/21/12 16:45
Sample ID    : TB-061912                       Date Analyzed: 06/21/12 16:45
Lab Samp ID  : F132-14                         Dilution Factor: 1
Lab File ID  : EF20035A                       Matrix          : WATER
Ext Btch ID  : VG39F12                        % Moisture     : NA
Calib. Ref.  : EF20027A                       Instrument ID   : GCT039
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	23J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	36.6	40.00	91.6 60-140

RL : Reporting Limit  
Discrete peak(s) reported

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/21/12
Batch No.    : 12F132                             Date Extracted: 06/21/12 09:24
Sample ID    : MBLK1W                             Date Analyzed: 06/21/12 09:24
Lab Samp ID  : VG39F12B                           Dilution Factor: 1
Lab File ID  : EF20024A                           Matrix          : WATER
Ext Btch ID  : VG39F12                             % Moisture     : NA
Calib. Ref.  : EF20015A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	35.6	40.00	89.0 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F12B VG39F12L VG39F12C  
LAB FILE ID: EF20024A EF20025A EF20026A  
DATE EXTRACTED: 06/21/1209:24 06/21/1210:07 06/21/1210:51 DATE COLLECTED: NA  
DATE ANALYZED: 06/21/1209:24 06/21/1210:07 06/21/1210:51 DATE RECEIVED: 06/21/12  
PREP. BATCH: VG39F12 VG39F12 VG39F12  
CALIB. REF: EF20015A EF20015A EF20015A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	417	83	500	450	90	8	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	42.5	106	40.0	43.0	107	60-130

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/20/12 09:30
Sample ID:   SL-572-SA5C-SB-0.0-0.5           Date Analyzed: 06/20/12 11:28
Lab Samp ID: F132-07                           Dilution Factor: 1
Lab File ID: BF20007A                          Matrix          : SOIL
Ext Btch ID: MEF008S                            % Moisture     : 11.3
Calib. Ref.: BF20002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	560	280
ISOPROPANOL	ND	560	280
METHANOL	ND	560	280

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/20/12 09:30
Sample ID:   SL-572-SA5C-SB-4.0-5.0            Date Analyzed: 06/20/12 11:46
Lab Samp ID: F132-08                            Dilution Factor: 1
Lab File ID: BF20008A                           Matrix          : SOIL
Ext Btch ID: MEF008S                             % Moisture     : 5.8
Calib. Ref.: BF20002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	530	270
ISOPROPANOL	ND	530	270
METHANOL	ND	530	270

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/20/12 09:30
Sample ID:   SL-872-SA5C-SB-4.0-5.0           Date Analyzed: 06/20/12 13:04
Lab Samp ID: F132-10                           Dilution Factor: 1
Lab File ID: BF20011A                          Matrix          : SOIL
Ext Btch ID: MEF008S                            % Moisture     : 6.8
Calib. Ref.: BF20002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
ETHANOL	ND	540	270
ISOPROPANOL	ND	540	270
METHANOL	ND	540	270

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.   : 12F132                           Date Extracted: 06/20/12 09:30
Sample ID   : MBLK1S                           Date Analyzed: 06/20/12 09:55
Lab Samp ID: MEF008SB                          Dilution Factor: 1
Lab File ID: BF20003A                          Matrix          : SOIL
Ext Btch ID: MEF008S                            % Moisture     : NA
Calib. Ref.: BF20002A                          Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ETHANOL	ND	500	250
ISOPROPANOL	ND	500	250
METHANOL	ND	500	250

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: MEF008SB MEF008SL MEF008SY  
LAB FILE ID: BF20003A BF20004A BF20006A  
DATE EXTRACTED: 06/20/1209:30 06/20/1209:30 06/20/1209:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/20/1209:55 06/20/1210:12 06/20/1210:54 DATE RECEIVED: 06/20/12  
PREP. BATCH: MEF008S MEF008S MEF008S  
CALIB. REF: BF20002A BF20002A BF20002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	10400	104	10000	9730	97	6	50-150	50
Isopropanol	ND	10000	10100	101	10000	8980	90	12	50-150	50
Methanol	ND	10000	10400	104	10000	9900	99	5	50-150	50

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 8015B

=====

MATRIX: SOIL % MOISTURE: 5.8  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-572-SA5C-SB-4.0-5.0  
LAB SAMP ID: F132-08 F132-08M F132-08S  
LAB FILE ID: BF20008A BF20009A BF20010A  
DATE EXTRACTED: 06/20/1209:30 06/20/1209:30 06/20/1209:30 DATE COLLECTED: 06/19/12  
DATE ANALYZED: 06/20/1211:46 06/20/1212:14 06/20/1212:30 DATE RECEIVED: 06/19/12  
PREP. BATCH: MEF008S MEF008S MEF008S  
CALIB. REF: BF20002A BF20002A BF20002A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10600	9530	90	10600	11300	107	17	30-150	50
Isopropanol	ND	10600	9230	87	10600	11500	108	22	50-150	50
Methanol	ND	10600	9670	91	10600	11200	105	14	50-140	50

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                       Date Received: 06/19/12
Batch No.    : 12F132                             Date Extracted: 06/20/12 09:30
Sample ID    : SL-572-SA5C-SB-0.0-0.5           Date Analyzed: 06/20/12 12:12
Lab Samp ID  : F132-07                           Dilution Factor: 1
Lab File ID  : TF20008A                          Matrix          : SOIL
Ext Btch ID  : PEF008S                            % Moisture      : 11.3
Calib. Ref.  : TF20002A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	17	8.5
ETHYLENE GLYCOL	ND	11	5.6
PROPYLENE GLYCOL	ND	11	5.6

METHOD 8015M  
GLYCOLS

```
=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                       Date Received: 06/19/12
Batch No.    : 12F132                             Date Extracted: 06/20/12 09:30
Sample ID    : SL-572-SA5C-SB-4.0-5.0           Date Analyzed: 06/20/12 13:14
Lab Samp ID  : F132-08                             Dilution Factor: 1
Lab File ID  : TF20010A                           Matrix          : SOIL
Ext Btch ID  : PEF008S                             % Moisture     : 5.8
Calib. Ref.  : TF20002A                           Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	8.0
ETHYLENE GLYCOL	ND	11	5.3
PROPYLENE GLYCOL	ND	11	5.3

METHOD 8015M  
GLYCOLS

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/20/12 09:30
Sample ID    : SL-872-SA5C-SB-4.0-5.0          Date Analyzed: 06/20/12 12:29
Lab Samp ID  : F132-10                           Dilution Factor: 1
Lab File ID  : TF20009A                         Matrix          : SOIL
Ext Btch ID  : PEF008S                          % Moisture     : 6.8
Calib. Ref.  : TF20002A                         Instrument ID   : GCT050
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	16	8.0
ETHYLENE GLYCOL	ND	11	5.4
PROPYLENE GLYCOL	ND	11	5.4

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                       Date Received: 06/20/12
Batch No.   : 12F132                             Date Extracted: 06/20/12 09:30
Sample ID   : MBLK1S                             Date Analyzed: 06/20/12 11:40
Lab Samp ID: PEF008SB                           Dilution Factor: 1
Lab File ID: TF20006A                           Matrix          : SOIL
Ext Btch ID: PEF008S                             % Moisture      : NA
Calib. Ref.: TF20002A                           Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIETHYLENE GLYCOL	ND	15	7.5
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	5.0

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PEF008SB PEF008SL PEF008SY  
LAB FILE ID: TF20006A TF20003A TF20005A  
DATE EXTRACTED: 06/20/1209:30 06/20/1209:30 06/20/1209:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/20/1211:40 06/20/1209:56 06/20/1211:04 DATE RECEIVED: 06/20/12  
PREP. BATCH: PEF008S PEF008S PEF008S  
CALIB. REF: TF20002A TF20002A TF20002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	49.1	98	50.0	43.6	87	12	50-150	50
Ethylene Glycol	ND	50.0	47.4	95	50.0	42.3	85	11	50-150	50
Propylene Glycol	ND	25.0	25.9	104	25.0	22.7	91	13	50-150	50

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 8015M

=====

MATRIX: SOIL % MOISTURE: 5.8  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-572-SA5C-SB-4.0-5.0  
LAB SAMP ID: F132-08 F132-08M F132-08S  
LAB FILE ID: TF20010A TF20011A TF20012A  
DATE EXTRACTED: 06/20/1209:30 06/20/1209:30 06/20/1209:30 DATE COLLECTED: 06/19/12  
DATE ANALYZED: 06/20/1213:14 06/20/1213:32 06/20/1214:07 DATE RECEIVED: 06/19/12  
PREP. BATCH: PEF008S PEF008S PEF008S  
CALIB. REF: TF20002A TF20002A TF20002A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	53.1	52.0	98	53.1	53.7	101	3	50-150	50
Ethylene Glycol	ND	53.1	50.0	94	53.1	51.2	97	3	50-150	50
Propylene Glycol	ND	26.5	25.5	96	26.5	27.1	102	6	50-150	50

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                       Date Received: 06/19/12
Batch No.    : 12F132                             Date Extracted: 06/22/12 09:48
Sample ID:   SL-527-SA5C-SB-4.0-5.0              Date Analyzed: 06/23/12 04:33
Lab Samp ID: F132-01                             Dilution Factor: 1
Lab File ID: LF21125A                           Matrix          : SOIL
Ext Btch ID: DSF028S                             % Moisture     : 8.6
Calib. Ref.: LF21123A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.8	109.4	70.2	50-150
HEXACOSANE	27.7	27.35	101	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID    : SL-528-SA5C-SB-4.0-5.0          Date Analyzed: 06/23/12 01:12
Lab Samp ID  : F132-03                          Dilution Factor: 1
Lab File ID  : LF21113A                        Matrix          : SOIL
Ext Btch ID  : DSF028S                          % Moisture     : 6.7
Calib. Ref.  : LF21111A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.2	107.2	72.9	50-150
HEXACOSANE	28.2	26.80	105	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID:   SL-828-SA5C-SB-4.0-5.0           Date Analyzed: 06/23/12 05:56
Lab Samp ID: F132-05                           Dilution Factor: 1
Lab File ID: LF21130A                         Matrix          : SOIL
Ext Btch ID: DSF028S                          % Moisture     : 6.5
Calib. Ref.: LF21123A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	2.9J	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	ND	5.3	2.7
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	2.9J	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.7	107.0	73.6	50-150
HEXACOSANE	28.6	26.74	107	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID    : SL-572-SA5C-SB-0.0-0.5          Date Analyzed: 06/23/12 06:13
Lab Samp ID  : F132-07                          Dilution Factor: 1
Lab File ID  : LF21131A                        Matrix          : SOIL
Ext Btch ID  : DSF028S                         % Moisture     : 11.3
Calib. Ref.  : LF21123A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	7.0	5.6	2.8
EFH(C30-C40)	6.3J	11	5.6
TOTAL EFH(C8-C40)	13	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.1	112.7	70.2	50-150
HEXACOSANE	28.0	28.18	99.3	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID    : SL-572-SA5C-SB-4.0-5.0          Date Analyzed: 06/23/12 02:02
Lab Samp ID  : F132-08                          Dilution Factor: 1
Lab File ID  : LF21116A                        Matrix          : SOIL
Ext Btch ID  : DSF028S                          % Moisture     : 5.8
Calib. Ref.  : LF21111A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	7.2	5.3	2.7
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	7.2	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.2	106.2	67.1	50-150
HEXACOSANE	26.8	26.54	101	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID    : SL-872-SA5C-SB-4.0-5.0          Date Analyzed: 06/23/12 02:52
Lab Samp ID  : F132-10                           Dilution Factor: 1
Lab File ID  : LF21119A                          Matrix          : SOIL
Ext Btch ID  : DSF028S                           % Moisture     : 6.8
Calib. Ref. : LF21111A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	3.1J	5.4	2.7
EFH(C21-C30)	76	5.4	2.7
EFH(C30-C40)	100	11	5.4
TOTAL EFH(C8-C40)	180	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.9	107.3	69.8	50-150
HEXACOSANE	28.0	26.82	105	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID    : SL-524-SA5C-SB-4.0-5.0          Date Analyzed: 06/23/12 04:49
Lab Samp ID  : F132-15                          Dilution Factor: 1
Lab File ID  : LF21126A                        Matrix          : SOIL
Ext Btch ID  : DSF028S                          % Moisture     : 5.8
Calib. Ref.  : LF21123A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	ND	5.3	2.7
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.4	106.2	74.8	50-150
HEXACOSANE	28.4	26.54	107	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID   : SL-526-SA5C-SB-4.0-5.0          Date Analyzed: 06/23/12 05:06
Lab Samp ID : F132-18                           Dilution Factor: 1
Lab File ID : LF21127A                          Matrix          : SOIL
Ext Btch ID : DSF028S                           % Moisture     : 8.8
Calib. Ref. : LF21123A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.4	109.6	70.6	50-150
HEXACOSANE	28.9	27.41	106	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID    : SL-526-SA5C-SB-9.0-10.0         Date Analyzed: 06/23/12 05:23
Lab Samp ID  : F132-20                          Dilution Factor: 1
Lab File ID  : LF21128A                         Matrix          : SOIL
Ext Btch ID  : DSF028S                           % Moisture     : 8.0
Calib. Ref.  : LF21123A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	2.8J	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	2.8J	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.8	108.7	70.7	50-150
HEXACOSANE	27.8	27.17	102	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID    : SL-525-SA5C-SB-4.0-5.0          Date Analyzed: 06/23/12 05:40
Lab Samp ID  : F132-21                          Dilution Factor: 1
Lab File ID  : LF21129A                        Matrix          : SOIL
Ext Btch ID  : DSF028S                         % Moisture     : 6.8
Calib. Ref. : LF21123A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.8	107.3	67.9	50-150
HEXACOSANE	27.0	26.82	101	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID    : SL-525-SA5C-SB-9.0-10.0         Date Analyzed: 06/23/12 03:09
Lab Samp ID  : F132-23                           Dilution Factor: 1
Lab File ID  : LF21120A                          Matrix          : SOIL
Ext Btch ID  : DSF028S                           % Moisture     : 7.9
Calib. Ref. : LF21111A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	3.0J	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	24	5.4	2.7
EFH(C30-C40)	29	11	5.4
TOTAL EFH(C8-C40)	56	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.8	108.6	69.8	50-150
HEXACOSANE	30.0	27.14	111	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID    : SL-670-SA5C-SB-4.0-5.0          Date Analyzed: 06/23/12 03:26
Lab Samp ID  : F132-25                           Dilution Factor: 1
Lab File ID  : LF21121A                          Matrix          : SOIL
Ext Btch ID  : DSF028S                           % Moisture     : 6.2
Calib. Ref. : LF21111A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	12	5.3	2.7
EFH(C30-C40)	27	11	5.3
TOTAL EFH(C8-C40)	39	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.3	106.6	71.5	50-150
HEXACOSANE	27.0	26.65	101	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID    : SL-670-SA5C-SB-0.0-0.5          Date Analyzed: 06/23/12 03:43
Lab Samp ID  : F132-26                          Dilution Factor: 1
Lab File ID  : LF21122A                         Matrix          : SOIL
Ext Btch ID  : DSF028S                          % Moisture     : 11.5
Calib. Ref. : LF21111A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	8.4	5.6	2.8
EFH(C30-C40)	15	11	5.6
TOTAL EFH(C8-C40)	23	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.2	113.0	68.3	50-150
HEXACOSANE	28.9	28.25	102	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/22/12
Batch No.    : 12F132                           Date Extracted: 06/22/12 09:48
Sample ID    : MBLK1S                           Date Analyzed: 06/23/12 00:04
Lab Samp ID  : DSF028SB                         Dilution Factor: 1
Lab File ID  : LF21109A                        Matrix          : SOIL
Ext Btch ID  : DSF028S                          % Moisture     : NA
Calib. Ref.  : LF21099A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.5	100.0	75.5	50-150
HEXACOSANE	25.7	25.00	103	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF028SB DSF028SL DSF028SC  
LAB FILE ID: LF21109A LF21107A LF21108A  
DATE EXTRACTED: 06/22/1209:48 06/22/1209:48 06/22/1209:48 DATE COLLECTED: NA  
DATE ANALYZED: 06/23/1200:04 06/22/1223:31 06/22/1223:47 DATE RECEIVED: 06/22/12  
PREP. BATCH: DSF028S DSF028S DSF028S  
CALIB. REF: LF21099A LF21099A LF21099A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	442	88	500	424	85	4	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	84.4	84	100	82.6	83	50-150
Hexacosane	25.0	26.6	106	25.0	25.9	104	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 6.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-528-SA5C-SB-4.0-5.0  
LAB SAMP ID: F132-03 F132-03M F132-03S  
LAB FILE ID: LF21113A LF21114A LF21115A  
DATE EXTRACTED: 06/22/1209:48 06/22/1209:48 06/22/1209:48 DATE COLLECTED: 06/19/12  
DATE ANALYZED: 06/23/1201:12 06/23/1201:29 06/23/1201:45 DATE RECEIVED: 06/19/12  
PREP. BATCH: DSF028S DSF028S DSF028S  
CALIB. REF: LF21111A LF21111A LF21111A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	536	444	83	536	440	82	1	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	107	85.5	80	107	84.1	78	50-150
Hexacosane	26.8	28.4	106	26.8	27.8	104	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 5.8  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-572-SA5C-SB-4.0-5.0  
LAB SAMP ID: F132-08 F132-08M F132-08S  
LAB FILE ID: LF21116A LF21117A LF21118A  
DATE EXTRACTED: 06/22/1209:48 06/22/1209:48 06/22/1209:48 DATE COLLECTED: 06/19/12  
DATE ANALYZED: 06/23/1202:02 06/23/1202:19 06/23/1202:35 DATE RECEIVED: 06/19/12  
PREP. BATCH: DSF028S DSF028S DSF028S  
CALIB. REF: LF21111A LF21111A LF21111A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	531	439	83	531	454	85	3	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	106	75.7	71	106	80.7	76	50-150
Hexacosane	26.5	26.8	101	26.5	28.6	108	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-527-SA5C-SB-4.0-5.0          Date Analyzed: 06/28/12 20:27
Lab Samp ID  : F132-01                          Dilution Factor: 1
Lab File ID  : SF28014A                        Matrix          : SOIL
Ext Btch ID  : CPF033S                          % Moisture     : 8.6
Calib. Ref.  : SF28006A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(17.10)   20.38	14.58	(117)   140*	45-120
TETRACHLORO-M-XYLENE	(16.79)   13.87	14.58	(115)   95.1	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-528-SA5C-SB-4.0-5.0          Date Analyzed: 06/28/12 21:01
Lab Samp ID  : F132-03                           Dilution Factor: 1
Lab File ID  : SF28015A                          Matrix          : SOIL
Ext Btch ID  : CPF033S                            % Moisture     : 6.7
Calib. Ref.  : SF28006A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(15.45)   19.05	14.29	(108)   133*	45-120
TETRACHLORO-M-XYLENE	(16.79)   12.99	14.29	(118)   91.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-828-SA5C-SB-4.0-5.0          Date Analyzed: 06/28/12 22:44
Lab Samp ID  : F132-05                          Dilution Factor: 1
Lab File ID  : SF28018A                         Matrix          : SOIL
Ext Btch ID  : CPF033S                          % Moisture     : 6.5
Calib. Ref.  : SF28006A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIIPHENYL	(14.88)   18.53	14.26	(104)   130*	45-120
TETRACHLORO-M-XYLENE	(15.95)   12.33	14.26	(112)   86.5	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                       Date Received: 06/19/12
Batch No.    : 12F132                             Date Extracted: 06/27/12 17:18
Sample ID    : SL-572-SA5C-SB-0.0-0.5           Date Analyzed: 06/28/12 23:18
Lab Samp ID  : F132-07                           Dilution Factor: 1
Lab File ID  : SF28019A                          Matrix          : SOIL
Ext Btch ID  : CPF033S                           % Moisture     : 11.3
Calib. Ref.  : SF28006A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.48)   17.75	15.03	(89.7)   118	45-120
TETRACHLORO-M-XYLENE	(16.39)   13.12	15.03	(109)   87.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-572-SA5C-SB-4.0-5.0          Date Analyzed: 06/28/12 23:52
Lab Samp ID  : F132-08                           Dilution Factor: 1
Lab File ID  : SF28020A                          Matrix          : SOIL
Ext Btch ID  : CPF033S                           % Moisture     : 5.8
Calib. Ref.  : SF28006A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(10.69)   13.37	14.15	(75.6)   94.5	45-120
TETRACHLORO-M-XYLENE	(14.80)   12.39	14.15	(105)   87.6	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-872-SA5C-SB-4.0-5.0          Date Analyzed: 06/29/12 03:52
Lab Samp ID  : F132-10                          Dilution Factor: 1
Lab File ID  : SF28027A                         Matrix          : SOIL
Ext Btch ID  : CPF033S                          % Moisture     : 6.8
Calib. Ref.  : SF28024A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(9.872)   11.35	14.30	(69.0)   79.4	45-120
TETRACHLORO-M-XYLENE	(14.65)   12.68	14.30	(102)   88.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                       Date Received: 06/19/12
Batch No.    : 12F132                             Date Extracted: 06/27/12 17:18
Sample ID    : SL-643-SA5C-SB-1.0-2.0           Date Analyzed: 06/29/12 04:26
Lab Samp ID  : F132-12                           Dilution Factor: 1
Lab File ID  : SF28028A                          Matrix          : SOIL
Ext Btch ID  : CPF033S                            % Moisture     : 9.8
Calib. Ref.  : SF28024A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(41)   47	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.82)   17.97	14.78	(100)   122*	45-120
TETRACHLORO-M-XYLENE	(16.24)   12.97	14.78	(110)   87.8	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-643-SA5C-SB-2.0-3.0          Date Analyzed: 06/29/12 05:00
Lab Samp ID  : F132-13                          Dilution Factor: 1
Lab File ID  : SF28029A                        Matrix          : SOIL
Ext Btch ID  : CPF033S                          % Moisture     : 11.2
Calib. Ref.  : SF28024A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.44)   19.99	15.01	(110)   133*	45-120
TETRACHLORO-M-XYLENE	(15.72)   13.27	15.01	(105)   88.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-524-SA5C-SB-4.0-5.0          Date Analyzed: 06/29/12 05:35
Lab Samp ID  : F132-15                          Dilution Factor: 1
Lab File ID  : SF28030A                        Matrix          : SOIL
Ext Btch ID  : CPF033S                          % Moisture     : 5.8
Calib. Ref.  : SF28024A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.52)   20.21	14.15	(117)   143*	45-120
TETRACHLORO-M-XYLENE	(15.28)   12.71	14.15	(108)   89.8	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-526-SA5C-SB-4.0-5.0          Date Analyzed: 06/29/12 06:09
Lab Samp ID  : F132-18                           Dilution Factor: 1
Lab File ID  : SF28031A                          Matrix          : SOIL
Ext Btch ID  : CPF033S                            % Moisture     : 8.8
Calib. Ref.  : SF28024A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.52)   19.28	14.62	(106)   132*	45-120
TETRACHLORO-M-XYLENE	(14.47)   10.85	14.62	(99.0)   74.2	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/19/12
Project    : SSFL PHASE 3                       Date Received: 06/19/12
Batch No.  : 12F132                             Date Extracted: 06/27/12 17:18
Sample ID  : SL-526-SA5C-SB-9.0-10.0           Date Analyzed: 06/29/12 06:43
Lab Samp ID: F132-20                            Dilution Factor: 1
Lab File ID: SF28032A                          Matrix          : SOIL
Ext Btch ID: CPF033S                            % Moisture     : 8.0
Calib. Ref.: SF28024A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.09)   20.47	14.49	(111)   141*	45-120
TETRACHLORO-M-XYLENE	(15.36)   13.27	14.49	(106)   91.6	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-525-SA5C-SB-4.0-5.0          Date Analyzed: 06/29/12 07:17
Lab Samp ID  : F132-21                           Dilution Factor: 1
Lab File ID  : SF28033A                          Matrix          : SOIL
Ext Btch ID  : CPF033S                           % Moisture     : 6.8
Calib. Ref.  : SF28024A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(15.79)   20.22	14.30	(110)   141*	45-120
TETRACHLORO-M-XYLENE	(15.18)   10.68	14.30	(106)   74.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-525-SA5C-SB-9.0-10.0         Date Analyzed: 06/29/12 07:52
Lab Samp ID  : F132-23                          Dilution Factor: 1
Lab File ID  : SF28034A                         Matrix          : SOIL
Ext Btch ID  : CPF033S                          % Moisture     : 7.9
Calib. Ref.  : SF28024A                         Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(11.89)   16.65	14.47	(82.1)   115	45-120
TETRACHLORO-M-XYLENE	(15.78)   13.51	14.47	(109)   93.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-670-SA5C-SB-4.0-5.0          Date Analyzed: 06/29/12 08:26
Lab Samp ID  : F132-25                           Dilution Factor: 1
Lab File ID  : SF28035A                          Matrix          : SOIL
Ext Btch ID  : CPF033S                           % Moisture     : 6.2
Calib. Ref.  : SF28024A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(11.35)   14.79	14.21	(79.8)   104	45-120
TETRACHLORO-M-XYLENE	(15.91)   12.90	14.21	(112)   90.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
Batch No.    : 12F132                           Date Extracted: 06/27/12 17:18
Sample ID    : SL-670-SA5C-SB-0.0-0.5          Date Analyzed: 06/29/12 09:00
Lab Samp ID  : F132-26                           Dilution Factor: 1
Lab File ID  : SF28036A                          Matrix          : SOIL
Ext Btch ID  : CPF033S                            % Moisture     : 11.5
Calib. Ref.  : SF28024A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.19)   16.92	15.06	(87.6)   112	45-120
TETRACHLORO-M-XYLENE	(17.13)   14.14	15.06	(114)   93.9	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/27/12
Batch No.    : 12F132                             Date Extracted: 06/27/12 17:18
Sample ID    : MBLK1S                             Date Analyzed: 06/28/12 17:36
Lab Samp ID  : 60F033SB                           Dilution Factor: 1
Lab File ID  : SF28009A                           Matrix          : SOIL
Ext Btch ID  : CPF033S                             % Moisture      : NA
Calib. Ref.  : SF28006A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.53)   17.77	13.33	(117)   133*	45-120
TETRACHLORO-M-XYLENE	(15.09)   12.55	13.33	(113)   94.1	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F033SB 60F033SL 60F033SC  
LAB FILE ID: SF28009A SF28010A SF28011A  
DATE EXTRACTED: 06/27/1217:18 06/27/1217:18 06/27/1217:18 DATE COLLECTED: NA  
DATE ANALYZED: 06/28/1217:36 06/28/1218:10 06/28/1218:44 DATE RECEIVED: 06/27/12  
PREP. BATCH: CPF033S CPF033S CPF033S  
CALIB. REF: SF28006A SF28006A SF28006A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(165)   173	(99)   104	167	(167)   182	(100)   109	(1)   5	50-130	50
Aroclor 1260	(ND)   ND	167	(179)   196	(107)   118	167	(180)   204	(108)   122	(1)   4	60-150	50
Aroclor 5460	(ND)   ND	83.3	(115)   114	(138)   137	83.3	(116)   115	(139)   138	(1)   1	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(15.55)   18.32	(117)   137*	13.33	(15.38)   18.00	(115)   135*	45-120
Tetrachloro-m-xylene	13.33	(15.05)   12.55	(113)   94.2	13.33	(14.82)   12.70	(111)   95.3	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: 6.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-528-SA5C-SB-4.0-5.0  
LAB SAMP ID: F132-03 F132-03M F132-03S  
LAB FILE ID: SF28015A SF28016A SF28017A  
DATE EXTRACTED: 06/27/1217:18 06/27/1217:18 06/27/1217:18 DATE COLLECTED: 06/19/12  
DATE ANALYZED: 06/28/1221:01 06/28/1221:35 06/28/1222:10 DATE RECEIVED: 06/19/12  
PREP. BATCH: CPF033S CPF033S CPF033S  
CALIB. REF: SF28006A SF28006A SF28006A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	179	(189)   198	(106)   111	179	(165)   196	(92)   110	(14)   1	20-160	50
Aroclor 1260	(ND)   ND	179	(182)   214	(102)   120	179	(170)   206	(95)   115	(7)   4	20-160	50
Aroclor 5460	(ND)   ND	89.3	(113)   119	(127)   133	89.3	(114)   120	(128)   134	(1)   1	20-160	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.29	(14.87)   18.70	(104)   131*	14.29	(14.69)   18.39	(103)   129*	45-120
Tetrachloro-m-xylene	14.29	(15.62)   12.32	(109)   86.2	14.29	(16.08)   12.35	(113)   86.4	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F132  
METHOD: METHOD 3550B/8082

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MATRIX: SOIL % MOISTURE: 5.8  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-572-SA5C-SB-4.0-5.0  
LAB SAMP ID: F132-08 F132-08M F132-08S  
LAB FILE ID: SF28020A SF28021A SF28022A  
DATE EXTRACTED: 06/27/1217:18 06/27/1217:18 06/27/1217:18 DATE COLLECTED: 06/19/12  
DATE ANALYZED: 06/28/1223:52 06/29/1200:27 06/29/1201:01 DATE RECEIVED: 06/19/12  
PREP. BATCH: CPF033S CPF033S CPF033S  
CALIB. REF: SF28006A SF28006A SF28006A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	177	(160)   174	(90)   98	177	(163)   174	(92)   98	(2)   0	20-160	50
Aroclor 1260	(ND)   ND	177	(131)   149	(74)   84	177	(131)   149	(74)   84	(0)   0	20-160	50
Aroclor 5460	(ND)   ND	88.5	(85.7)   96.0	(97)   109	88.5	(88.2)   96.6	(100)   109	(3)   1	20-160	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.15	(11.16)   13.64	(78.9)   96.4	14.15	(11.15)   13.70	(78.8)   96.8	45-120
Tetrachloro-m-xylene	14.15	(15.62)   12.79	(110)   90.4	14.15	(15.76)   12.95	(111)   91.5	10-160

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/19/12
Project    : SSFL PHASE 3                       Date Received: 06/19/12
SDG NO.    : 12F132                             Date Extracted: 06/25/12 11:30
Sample ID  : SL-527-SA5C-SB-4.0-5.0           Date Analyzed: 06/27/12 21:47
Lab Samp ID: F132-01                           Dilution Factor: 1.00
Lab File ID: 98F12077                          Matrix          : SOIL
Ext Btch ID: IMF046S                           % Moisture     : 8.6
Calib. Ref.: 98F12067                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18000	109	13.1
Antimony	0.237J	0.547	0.109
Arsenic	4.64	0.547	0.219
Barium	116	0.547	0.219
Beryllium	0.771	0.547	0.0547
Boron	ND	5.47	2.74
Cadmium	0.130J	0.547	0.0547
Calcium	4250	21.9	10.9
Chromium	20.5	0.547	0.219
Cobalt	6.71	0.547	0.0547
Copper	8.00	0.547	0.219
Iron	21200	109	10.9
Lead	6.60	0.547	0.109
Magnesium	4470	10.9	5.47
Manganese	248	0.547	0.274
Molybdenum	0.652	0.547	0.0547
Nickel	10.3	0.547	0.219
Potassium	2540	109	32.8
Selenium	ND	0.547	0.219
Silver	ND	0.547	0.0547
Sodium	585	109	54.7
Strontium	36.8	0.547	0.274
Thallium	0.280J	0.438	0.0547
Tin	ND	10.9	5.47
Titanium	868	1.09	0.547
Vanadium	37.4	0.547	0.0547
Zinc	44.2	5.47	1.64
Lithium	17.4	2.19	1.09
Phosphorus	174	13.1	6.56
Zirconium	ND	5.47	2.74

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/19/12
Project    : SSFL PHASE 3                     Date Received: 06/19/12
SDG NO.    : 12F132                           Date Extracted: 06/25/12 11:30
Sample ID  : SL-528-SA5C-SB-4.0-5.0          Date Analyzed: 06/27/12 21:37
Lab Samp ID: F132-03                          Dilution Factor: 0.971
Lab File ID: 98F12075                         Matrix          : SOIL
Ext Btch ID: IMF046S                          % Moisture     : 6.7
Calib. Ref.: 98F12067                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14400	104	12.5
Antimony	0.251J	0.520	0.104
Arsenic	4.10	0.520	0.208
Barium	100	0.520	0.208
Beryllium	0.618	0.520	0.0520
Boron	ND	5.20	2.60
Cadmium	0.154J	0.520	0.0520
Calcium	2330	20.8	10.4
Chromium	18.8	0.520	0.208
Cobalt	5.13	0.520	0.0520
Copper	7.26	0.520	0.208
Iron	18000	104	10.4
Lead	6.01	0.520	0.104
Magnesium	3610	10.4	5.20
Manganese	221	0.520	0.260
Molybdenum	1.21	0.520	0.0520
Nickel	9.13	0.520	0.208
Potassium	2360	104	31.2
Selenium	ND	0.520	0.208
Silver	ND	0.520	0.0520
Sodium	408	104	52.0
Strontium	25.7	0.520	0.260
Thallium	0.250J	0.416	0.0520
Tin	ND	10.4	5.20
Titanium	815	1.04	0.520
Vanadium	33.2	0.520	0.0520
Zinc	37.8	5.20	1.56
Lithium	12.8	2.08	1.04
Phosphorus	142	12.5	6.24
Zirconium	ND	5.20	2.60

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
SDG NO.     : 12F132                           Date Extracted: 06/25/12 11:30
Sample ID   : SL-828-SA5C-SB-4.0-5.0          Date Analyzed: 06/27/12 22:05
Lab Samp ID : F132-05                          Dilution Factor: 0.980
Lab File ID : 98F12081                        Matrix          : SOIL
Ext Btch ID : IMF046S                         % Moisture     : 6.5
Calib. Ref. : 98F12079                        Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16200	105	12.6
Antimony	0.265J	0.524	0.105
Arsenic	5.08	0.524	0.210
Barium	108	0.524	0.210
Beryllium	0.770	0.524	0.0524
Boron	ND	5.24	2.62
Cadmium	0.150J	0.524	0.0524
Calcium	2530	21.0	10.5
Chromium	20.0	0.524	0.210
Cobalt	7.26	0.524	0.0524
Copper	7.65	0.524	0.210
Iron	20600	105	10.5
Lead	6.82	0.524	0.105
Magnesium	3980	10.5	5.24
Manganese	264	0.524	0.262
Molybdenum	1.18	0.524	0.0524
Nickel	10.9	0.524	0.210
Potassium	2470	105	31.4
Selenium	ND	0.524	0.210
Silver	ND	0.524	0.0524
Sodium	466	105	52.4
Strontium	29.1	0.524	0.262
Thallium	0.265J	0.419	0.0524
Tin	ND	10.5	5.24
Titanium	861	1.05	0.524
Vanadium	38.5	0.524	0.0524
Zinc	41.3	5.24	1.57
Lithium	14.7	2.10	1.05
Phosphorus	162	12.6	6.29
Zirconium	ND	5.24	2.62

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
SDG NO.     : 12F132                           Date Extracted: 06/25/12 11:30
Sample ID   : SL-572-SA5C-SB-0.0-0.5          Date Analyzed: 06/27/12 22:09
Lab Samp ID : F132-07                          Dilution Factor: 0.971
Lab File ID : 98F12082                         Matrix          : SOIL
Ext Btch ID : IMF046S                          % Moisture     : 11.3
Calib. Ref. : 98F12079                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17600	109	13.1
Antimony	0.184J	0.547	0.109
Arsenic	4.34	0.547	0.219
Barium	114	0.547	0.219
Beryllium	0.749	0.547	0.0547
Boron	ND	5.47	2.74
Cadmium	0.114J	0.547	0.0547
Calcium	2510	21.9	10.9
Chromium	17.4	0.547	0.219
Cobalt	3.82	0.547	0.0547
Copper	5.79	0.547	0.219
Iron	20600	109	10.9
Lead	5.83	0.547	0.109
Magnesium	3910	10.9	5.47
Manganese	119	0.547	0.274
Molybdenum	0.366J	0.547	0.0547
Nickel	7.56	0.547	0.219
Potassium	1670	109	32.8
Selenium	ND	0.547	0.219
Silver	ND	0.547	0.0547
Sodium	265	109	54.7
Strontium	31.4	0.547	0.274
Thallium	0.246J	0.438	0.0547
Tin	ND	10.9	5.47
Titanium	829	1.09	0.547
Vanadium	34.8	0.547	0.0547
Zinc	36.3	5.47	1.64
Lithium	16.6	2.19	1.09
Phosphorus	99.3	13.1	6.57
Zirconium	ND	5.47	2.74

METHOD 6020  
METALS BY ICP-MS

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Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
SDG NO.     : 12F132                           Date Extracted: 06/25/12 11:30
Sample ID   : SL-572-SA5C-SB-4.0-5.0          Date Analyzed: 06/27/12 22:27
Lab Samp ID : F132-08                          Dilution Factor: 0.957
Lab File ID : 98F12086                         Matrix          : SOIL
Ext Btch ID : IMF046S                           % Moisture     : 5.8
Calib. Ref. : 98F12079                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10800	102	12.2
Antimony	0.166J	0.508	0.102
Arsenic	3.50	0.508	0.203
Barium	66.1	0.508	0.203
Beryllium	0.458J	0.508	0.0508
Boron	ND	5.08	2.54
Cadmium	0.0863J	0.508	0.0508
Calcium	3580	20.3	10.2
Chromium	16.0	0.508	0.203
Cobalt	4.21	0.508	0.0508
Copper	5.83	0.508	0.203
Iron	15200	102	10.2
Lead	3.91	0.508	0.102
Magnesium	3440	10.2	5.08
Manganese	168	0.508	0.254
Molybdenum	0.380J	0.508	0.0508
Nickel	9.92	0.508	0.203
Potassium	1550	102	30.5
Selenium	ND	0.508	0.203
Silver	ND	0.508	0.0508
Sodium	310	102	50.8
Strontium	27.9	0.508	0.254
Thallium	0.141J	0.406	0.0508
Tin	ND	10.2	5.08
Titanium	590	1.02	0.508
Vanadium	24.6	0.508	0.0508
Zinc	33.0	5.08	1.52
Lithium	15.1	2.03	1.02
Phosphorus	239	12.2	6.10
Zirconium	ND	5.08	2.54

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/19/12
Project     : SSFL PHASE 3                     Date Received: 06/19/12
SDG NO.    : 12F132                           Date Extracted: 06/25/12 11:30
Sample ID:  SL-872-SA5C-SB-4.0-5.0           Date Analyzed: 06/27/12 22:36
Lab Samp ID: F132-10                          Dilution Factor: 0.990
Lab File ID: 98F12088                         Matrix          : SOIL
Ext Btch ID: IMF046S                          % Moisture     : 6.8
Calib. Ref.: 98F12079                        Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11900	106	12.7
Antimony	0.155J	0.531	0.106
Arsenic	3.78	0.531	0.212
Barium	68.1	0.531	0.212
Beryllium	0.472J	0.531	0.0531
Boron	ND	5.31	2.66
Cadmium	0.0907J	0.531	0.0531
Calcium	5930	21.2	10.6
Chromium	17.6	0.531	0.212
Cobalt	4.21	0.531	0.0531
Copper	6.29	0.531	0.212
Iron	16200	106	10.6
Lead	3.91	0.531	0.106
Magnesium	3520	10.6	5.31
Manganese	132	0.531	0.266
Molybdenum	0.561	0.531	0.0531
Nickel	10.1	0.531	0.212
Potassium	1650	106	31.9
Selenium	ND	0.531	0.212
Silver	ND	0.531	0.0531
Sodium	328	106	53.1
Strontium	32.8	0.531	0.266
Thallium	0.174J	0.425	0.0531
Tin	ND	10.6	5.31
Titanium	656	1.06	0.531
Vanadium	26.5	0.531	0.0531
Zinc	33.9	5.31	1.59
Lithium	17.3	2.12	1.06
Phosphorus	261	12.7	6.37
Zirconium	ND	5.31	2.66

METHOD 6020  
METALS BY ICP-MS

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Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
SDG NO.     : 12F132                            Date Extracted: 06/25/12 11:30
Sample ID   : SL-524-SA5C-SB-4.0-5.0           Date Analyzed: 06/27/12 22:41
Lab Samp ID : F132-15                           Dilution Factor: 0.985
Lab File ID : 98F12089                          Matrix          : SOIL
Ext Btch ID : IMF046S                            % Moisture     : 5.8
Calib. Ref. : 98F12079                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12500	105	12.5
Antimony	0.151J	0.523	0.105
Arsenic	4.02	0.523	0.209
Barium	80.1	0.523	0.209
Beryllium	0.545	0.523	0.0523
Boron	ND	5.23	2.61
Cadmium	0.0954J	0.523	0.0523
Calcium	2450	20.9	10.5
Chromium	14.1	0.523	0.209
Cobalt	4.71	0.523	0.0523
Copper	5.70	0.523	0.209
Iron	17700	105	10.5
Lead	4.39	0.523	0.105
Magnesium	3530	10.5	5.23
Manganese	204	0.523	0.261
Molybdenum	0.251J	0.523	0.0523
Nickel	8.39	0.523	0.209
Potassium	1960	105	31.4
Selenium	ND	0.523	0.209
Silver	ND	0.523	0.0523
Sodium	291	105	52.3
Strontium	24.5	0.523	0.261
Thallium	0.221J	0.418	0.0523
Tin	ND	10.5	5.23
Titanium	881	1.05	0.523
Vanadium	29.1	0.523	0.0523
Zinc	38.4	5.23	1.57
Lithium	17.8	2.09	1.05
Phosphorus	145	12.5	6.27
Zirconium	ND	5.23	2.61

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
SDG NO.     : 12F132                           Date Extracted: 06/25/12 11:30
Sample ID   : SL-526-SA5C-SB-4.0-5.0          Date Analyzed: 06/27/12 22:59
Lab Samp ID : F132-18                          Dilution Factor: 0.971
Lab File ID : 98F12093                         Matrix          : SOIL
Ext Btch ID : IMF046S                          % Moisture     : 8.8
Calib. Ref. : 98F12091                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19400	106	12.8
Antimony	0.237J	0.532	0.106
Arsenic	5.80	0.532	0.213
Barium	87.7	0.532	0.213
Beryllium	0.836	0.532	0.0532
Boron	4.02J	5.32	2.66
Cadmium	0.125J	0.532	0.0532
Calcium	2920	21.3	10.6
Chromium	18.8	0.532	0.213
Cobalt	8.00	0.532	0.0532
Copper	7.85	0.532	0.213
Iron	21500	106	10.6
Lead	6.71	0.532	0.106
Magnesium	4270	10.6	5.32
Manganese	281	0.532	0.266
Molybdenum	0.513J	0.532	0.0532
Nickel	10.8	0.532	0.213
Potassium	2420	106	31.9
Selenium	ND	0.532	0.213
Silver	ND	0.532	0.0532
Sodium	385	106	53.2
Strontium	31.0	0.532	0.266
Thallium	0.255J	0.426	0.0532
Tin	ND	10.6	5.32
Titanium	887	1.06	0.532
Vanadium	37.2	0.532	0.0532
Zinc	43.3	5.32	1.60
Lithium	19.5	2.13	1.06
Phosphorus	132	12.8	6.39
Zirconium	ND	5.32	2.66

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/19/12
Project    : SSFL PHASE 3                       Date Received: 06/19/12
SDG NO.    : 12F132                             Date Extracted: 06/25/12 11:30
Sample ID  : SL-526-SA5C-SB-9.0-10.0           Date Analyzed: 06/27/12 23:04
Lab Samp ID: F132-20                             Dilution Factor: 0.995
Lab File ID: 98F12094                           Matrix          : SOIL
Ext Btch ID: IMF046S                             % Moisture     : 8.0
Calib. Ref.: 98F12091                           Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16600	108	13.0
Antimony	0.169J	0.541	0.108
Arsenic	3.67	0.541	0.216
Barium	83.2	0.541	0.216
Beryllium	0.667	0.541	0.0541
Boron	ND	5.41	2.70
Cadmium	0.152J	0.541	0.0541
Calcium	10600	21.6	10.8
Chromium	20.3	0.541	0.216
Cobalt	3.21	0.541	0.0541
Copper	7.94	0.541	0.216
Iron	20600	108	10.8
Lead	4.48	0.541	0.108
Magnesium	3770	10.8	5.41
Manganese	121	0.541	0.270
Molybdenum	0.283J	0.541	0.0541
Nickel	9.33	0.541	0.216
Potassium	2530	108	32.4
Selenium	ND	0.541	0.216
Silver	0.109J	0.541	0.0541
Sodium	463	108	54.1
Strontium	40.1	0.541	0.270
Thallium	0.229J	0.433	0.0541
Tin	ND	10.8	5.41
Titanium	802	1.08	0.541
Vanadium	32.6	0.541	0.0541
Zinc	41.0	5.41	1.62
Lithium	18.9	2.16	1.08
Phosphorus	178	13.0	6.49
Zirconium	ND	5.41	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/19/12
Project     : SSFL PHASE 3                     Date Received: 06/19/12
SDG NO.    : 12F132                           Date Extracted: 06/25/12 11:30
Sample ID:  SL-525-SA5C-SB-4.0-5.0           Date Analyzed: 06/27/12 23:08
Lab Samp ID: F132-21                          Dilution Factor: 0.985
Lab File ID: 98F12095                         Matrix          : SOIL
Ext Btch ID: IMF046S                          % Moisture     : 6.8
Calib. Ref.: 98F12091                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17500	106	12.7
Antimony	0.311J	0.528	0.106
Arsenic	7.40	0.528	0.211
Barium	100	0.528	0.211
Beryllium	0.854	0.528	0.0528
Boron	ND	5.28	2.64
Cadmium	0.160J	0.528	0.0528
Calcium	2540	21.1	10.6
Chromium	17.1	0.528	0.211
Cobalt	8.44	0.528	0.0528
Copper	8.20	0.528	0.211
Iron	22000	106	10.6
Lead	7.25	0.528	0.106
Magnesium	3890	10.6	5.28
Manganese	328	0.528	0.264
Molybdenum	0.517J	0.528	0.0528
Nickel	9.63	0.528	0.211
Potassium	2260	106	31.7
Selenium	ND	0.528	0.211
Silver	ND	0.528	0.0528
Sodium	331	106	52.8
Strontium	33.0	0.528	0.264
Thallium	0.253J	0.423	0.0528
Tin	ND	10.6	5.28
Titanium	874	1.06	0.528
Vanadium	37.6	0.528	0.0528
Zinc	42.0	5.28	1.59
Lithium	17.5	2.11	1.06
Phosphorus	139	12.7	6.34
Zirconium	ND	5.28	2.64

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/19/12
Project    : SSFL PHASE 3                     Date Received: 06/19/12
SDG NO.    : 12F132                           Date Extracted: 06/25/12 11:30
Sample ID  : SL-525-SA5C-SB-9.0-10.0         Date Analyzed: 06/27/12 23:13
Lab Samp ID: F132-23                          Dilution Factor: 0.995
Lab File ID: 98F12096                         Matrix          : SOIL
Ext Btch ID: IMF046S                          % Moisture     : 7.9
Calib. Ref.: 98F12091                         Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15300	108	13.0
Antimony	0.189J	0.540	0.108
Arsenic	4.41	0.540	0.216
Barium	70.3	0.540	0.216
Beryllium	0.638	0.540	0.0540
Boron	ND	5.40	2.70
Cadmium	0.197J	0.540	0.0540
Calcium	3600	21.6	10.8
Chromium	20.1	0.540	0.216
Cobalt	4.51	0.540	0.0540
Copper	9.04	0.540	0.216
Iron	20900	108	10.8
Lead	7.76	0.540	0.108
Magnesium	3730	10.8	5.40
Manganese	185	0.540	0.270
Molybdenum	0.896	0.540	0.0540
Nickel	9.89	0.540	0.216
Potassium	2610	108	32.4
Selenium	ND	0.540	0.216
Silver	ND	0.540	0.0540
Sodium	361	108	54.0
Strontium	30.4	0.540	0.270
Thallium	0.238J	0.432	0.0540
Tin	ND	10.8	5.40
Titanium	851	1.08	0.540
Vanadium	35.1	0.540	0.0540
Zinc	49.8	5.40	1.62
Lithium	16.9	2.16	1.08
Phosphorus	241	13.0	6.48
Zirconium	ND	5.40	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/19/12
Project     : SSFL PHASE 3                     Date Received: 06/19/12
SDG NO.    : 12F132                           Date Extracted: 06/25/12 11:30
Sample ID:  SL-670-SA5C-SB-4.0-5.0           Date Analyzed: 06/27/12 23:17
Lab Samp ID: F132-25                          Dilution Factor: 0.990
Lab File ID: 98F12097                         Matrix          : SOIL
Ext Btch ID: IMF046S                           % Moisture     : 6.2
Calib. Ref.: 98F12091                         Instrument ID  : T-198
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10200	106	12.7
Antimony	1.78	0.528	0.106
Arsenic	34.1	0.528	0.211
Barium	66.7	0.528	0.211
Beryllium	0.590	0.528	0.0528
Boron	ND	5.28	2.64
Cadmium	0.207J	0.528	0.0528
Calcium	3150	21.1	10.6
Chromium	19.1	0.528	0.211
Cobalt	6.24	0.528	0.0528
Copper	11.7	0.528	0.211
Iron	26000	106	10.6
Lead	6.23	0.528	0.106
Magnesium	4720	10.6	5.28
Manganese	234	0.528	0.264
Molybdenum	0.790	0.528	0.0528
Nickel	17.6	0.528	0.211
Potassium	2150	106	31.7
Selenium	ND	0.528	0.211
Silver	ND	0.528	0.0528
Sodium	591	106	52.8
Strontium	28.5	0.528	0.264
Thallium	0.736	0.422	0.0528
Tin	ND	10.6	5.28
Titanium	940	1.06	0.528
Vanadium	35.9	0.528	0.0528
Zinc	57.2	5.28	1.58
Lithium	30.2	2.11	1.06
Phosphorus	496	12.7	6.33
Zirconium	ND	5.28	2.64

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/19/12
Project      : SSFL PHASE 3                     Date Received: 06/19/12
SDG NO.     : 12F132                           Date Extracted: 06/25/12 11:30
Sample ID   : SL-670-SA5C-SB-0.0-0.5          Date Analyzed: 06/27/12 23:22
Lab Samp ID : F132-26                          Dilution Factor: 0.980
Lab File ID : 98F12098                        Matrix         : SOIL
Ext Btch ID : IMF046S                         % Moisture    : 11.5
Calib. Ref. : 98F12091                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17000	111	13.3
Antimony	0.231J	0.554	0.111
Arsenic	5.86	0.554	0.221
Barium	75.6	0.554	0.221
Beryllium	0.658	0.554	0.0554
Boron	ND	5.54	2.77
Cadmium	0.104J	0.554	0.0554
Calcium	2750	22.1	11.1
Chromium	20.6	0.554	0.221
Cobalt	3.67	0.554	0.0554
Copper	8.09	0.554	0.221
Iron	22000	111	11.1
Lead	7.08	0.554	0.111
Magnesium	3750	11.1	5.54
Manganese	123	0.554	0.277
Molybdenum	0.505J	0.554	0.0554
Nickel	8.97	0.554	0.221
Potassium	1140	111	33.2
Selenium	ND	0.554	0.221
Silver	ND	0.554	0.0554
Sodium	435	111	55.4
Strontium	25.2	0.554	0.277
Thallium	0.185J	0.443	0.0554
Tin	ND	11.1	5.54
Titanium	684	1.11	0.554
Vanadium	37.5	0.554	0.0554
Zinc	35.1	5.54	1.66
Lithium	19.9	2.21	1.11
Phosphorus	77.1	13.3	6.64
Zirconium	ND	5.54	2.77

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/25/12
SDG NO.    : 12F132                           Date Extracted: 06/25/12 11:30
Sample ID:  MBLK1S                             Date Analyzed: 06/27/12 21:10
Lab Samp ID: IMF046SB                         Dilution Factor: 1
Lab File ID: 98F12069                        Matrix          : SOIL
Ext Btch ID: IMF046S                          % Moisture     : NA
Calib. Ref.: 98F12067                        Instrument ID   : T-I98
=====
  
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F132  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF046SB IMF046SL IMF046SC  
LAB FILE ID: 98F12069 98F12070 98F12071  
DATIME EXTRACTD: 06/25/1211:30 06/25/1211:30 06/25/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/27/1221:10 06/27/1221:15 06/27/1221:20 DATE RECEIVED: 06/25/12  
PREP. BATCH: IMF046S IMF046S IMF046S  
CALIB. REF: 98F12067 98F12067 98F12067

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2550	102	2500	2600	104	2	80-120	20
Antimony	ND	25.0	24.4	98	25.0	24.9	100	2	80-120	20
Arsenic	ND	25.0	23.5	94	25.0	24.0	96	2	80-120	20
Barium	ND	25.0	24.7	99	25.0	25.2	101	2	80-120	20
Beryllium	ND	25.0	24.2	97	25.0	24.9	100	3	80-120	20
Boron	ND	25.0	24.6	98	25.0	25.4	101	3	80-120	20
Cadmium	ND	25.0	23.7	95	25.0	24.1	96	2	80-120	20
Calcium	ND	2500	2590	104	2500	2660	107	3	80-120	20
Chromium	ND	25.0	23.9	96	25.0	24.1	96	0	80-120	20
Cobalt	ND	25.0	23.3	93	25.0	23.9	96	2	80-120	20
Copper	ND	25.0	23.2	93	25.0	23.2	93	0	80-120	20
Iron	ND	2500	2530	101	2500	2600	104	2	80-120	20
Lead	ND	25.0	23.4	94	25.0	24.1	96	3	80-120	20
Magnesium	ND	2500	2540	102	2500	2560	102	1	80-120	20
Manganese	ND	25.0	23.8	95	25.0	24.4	97	2	80-120	20
Molybdenum	ND	25.0	23.9	96	25.0	24.4	97	2	80-120	20
Nickel	ND	25.0	23.1	92	25.0	23.2	93	0	80-120	20
Potassium	ND	2500	2720	109	2500	2740	109	1	80-120	20
Selenium	ND	25.0	23.2	93	25.0	23.6	94	2	80-120	20
Silver	ND	25.0	24.0	96	25.0	24.4	98	2	80-120	20
Sodium	ND	2500	2500	100	2500	2620	105	5	80-120	20
Strontium	ND	25.0	24.7	99	25.0	25.0	100	1	80-120	20
Thallium	ND	25.0	23.9	95	25.0	24.3	97	2	80-120	20
Tin	ND	25.0	26.7	107	25.0	27.1	108	2	80-120	20
Titanium	ND	25.0	24.6	99	25.0	25.1	100	2	80-120	20
Vanadium	ND	25.0	24.2	97	25.0	24.4	98	1	80-120	20
Zinc	ND	50.0	45.2	90	50.0	46.4	93	2	80-120	20
Lithium	ND	25.0	24.7	99	25.0	25.4	102	3	80-120	20
Phosphorus	ND	250	236	94	250	237	95	0	80-120	20
Zirconium	ND	25.0	24.9	99	25.0	25.4	101	2	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F132  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 6.7  
DILTN FACTR: 0.971 0.990 0.976  
SAMPLE ID: SL-528-SA5C-SB-4.0-5.0  
CONTROL NO.: F132-03 F132-03M F132-03S  
LAB FILE ID: 98F12075 98F12072 98F12073  
DATIME EXTRACTD: 06/25/1211:30 06/25/1211:30 06/25/1211:30 DATE COLLECTED: 06/19/12  
DATIME ANALYZD: 06/27/1221:37 06/27/1221:24 06/27/1221:28 DATE RECEIVED: 06/19/12  
PREP. BATCH: IMF046S IMF046S IMF046S  
CALIB. REF: 98F12067 98F12067 98F12067

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	14400	2650	17500	117	2620	17900	135*	2	75-125	20
Antimony	0.251J	26.5	22.8	85	26.2	22.5	85	1	75-125	20
Arsenic	4.10	26.5	28.2	91	26.2	27.2	88	4	75-125	20
Barium	100	26.5	139	147*	26.2	122	82	13	75-125	20
Beryllium	0.618	26.5	26.0	96	26.2	25.5	95	2	75-125	20
Boron	ND	26.5	26.7	101	26.2	27.1	103	1	75-125	20
Cadmium	0.154J	26.5	25.7	96	26.2	25.0	95	3	75-125	20
Calcium	2330	2650	5030	102	2620	4800	94	5	75-125	20
Chromium	18.8	26.5	42.8	91	26.2	40.3	82	6	75-125	20
Cobalt	5.13	26.5	27.8	85	26.2	27.5	86	1	75-125	20
Copper	7.26	26.5	29.5	84	26.2	28.7	82	3	75-125	20
Iron	18000	2650	22000	150*	2620	19800	68*	10	75-125	20
Lead	6.01	26.5	31.6	97	26.2	30.0	92	5	75-125	20
Magnesium	3610	2650	5940	88	2620	6080	94	2	75-125	20
Manganese	221	26.5	250	109	26.2	234	48*	7	75-125	20
Molybdenum	1.21	26.5	26.6	96	26.2	26.2	95	2	75-125	20
Nickel	9.13	26.5	31.8	85	26.2	30.6	82	4	75-125	20
Potassium	2360	2650	5060	102	2620	5010	101	1	75-125	20
Selenium	ND	26.5	24.3	92	26.2	24.1	92	1	75-125	20
Silver	ND	26.5	25.4	96	26.2	25.3	97	1	75-125	20
Sodium	408	2650	2860	92	2620	2830	93	1	75-125	20
Strontium	25.7	26.5	52.1	99	26.2	49.0	89	6	75-125	20
Thallium	0.250J	26.5	25.6	96	26.2	25.1	95	2	75-125	20
Tin	ND	26.5	30.0	113	26.2	29.3	112	2	75-125	20
Titanium	815	26.5	879	240*	26.2	877	236*	0	75-125	20
Vanadium	33.2	26.5	59.6	100	26.2	55.1	84	8	75-125	20
Zinc	37.8	53.1	85.7	90	52.3	84.2	89	2	75-125	20
Lithium	12.8	26.5	41.9	110	26.2	41.7	110	1	75-125	20
Phosphorus	142	265	395	96	262	395	97	0	75-125	20
Zirconium	ND	26.5	19.4	73*	26.2	18.7	71*	4	75-125	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F132  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 5.8  
DILTN FACTR: 0.957 0.985 0.980  
SAMPLE ID: SL-572-SA5C-SB-4.0-5.0  
CONTROL NO.: F132-08 F132-08M F132-08S  
LAB FILE ID: 98F12086 98F12083 98F12084  
DATIME EXTRACTD: 06/25/1211:30 06/25/1211:30 06/25/1211:30 DATE COLLECTED: 06/19/12  
DATIME ANALYZD: 06/27/1222:27 06/27/1222:14 06/27/1222:18 DATE RECEIVED: 06/19/12  
PREP. BATCH: IMF046S IMF046S IMF046S  
CALIB. REF: 98F12079 98F12079 98F12079

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	10800	2610	13000	85	2600	14200	131*	9	75-125	20
Antimony	0.166J	26.1	22.8	87	26.0	22.9	87	0	75-125	20
Arsenic	3.50	26.1	27.1	90	26.0	27.3	91	1	75-125	20
Barium	66.1	26.1	90.1	92	26.0	97.1	119	7	75-125	20
Beryllium	0.458J	26.1	24.6	92	26.0	25.1	95	2	75-125	20
Boron	ND	26.1	24.7	94	26.0	24.9	96	1	75-125	20
Cadmium	0.0863J	26.1	24.8	95	26.0	24.9	95	0	75-125	20
Calcium	3580	2610	5600	77	2600	5280	65*	6	75-125	20
Chromium	16.0	26.1	37.5	82	26.0	39.9	92	6	75-125	20
Cobalt	4.21	26.1	26.6	86	26.0	27.8	91	5	75-125	20
Copper	5.83	26.1	27.2	82	26.0	28.1	86	3	75-125	20
Iron	15200	2610	16500	50*	2600	17600	95	7	75-125	20
Lead	3.91	26.1	28.0	92	26.0	28.3	94	1	75-125	20
Magnesium	3440	2610	5790	90	2600	6100	102	5	75-125	20
Manganese	168	26.1	185	65*	26.0	205	142*	10	75-125	20
Molybdenum	0.380J	26.1	25.2	95	26.0	25.5	97	1	75-125	20
Nickel	9.92	26.1	31.1	81	26.0	32.7	88	5	75-125	20
Potassium	1550	2610	4110	98	2600	4320	106	5	75-125	20
Selenium	ND	26.1	23.8	91	26.0	24.0	92	1	75-125	20
Silver	ND	26.1	25.3	97	26.0	25.3	97	0	75-125	20
Sodium	310	2610	2720	92	2600	2790	95	3	75-125	20
Strontium	27.9	26.1	50.8	87	26.0	50.0	85	2	75-125	20
Thallium	0.141J	26.1	24.6	94	26.0	24.6	94	0	75-125	20
Tin	ND	26.1	28.5	109	26.0	29.1	112	2	75-125	20
Titanium	590	26.1	583	-28*	26.0	638	183*	9	75-125	20
Vanadium	24.6	26.1	47.0	86	26.0	49.1	94	4	75-125	20
Zinc	33.0	52.3	77.7	86	52.0	79.9	90	3	75-125	20
Lithium	15.1	26.1	41.2	100	26.0	43.9	110	6	75-125	20
Phosphorus	239	261	533	112	260	487	95	9	75-125	20
Zirconium	ND	26.1	23.6	90	26.0	24.4	94	3	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F132  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 6.7  
DILTN FACTR: 0.971 0.971  
SAMPLE ID: SL-528-SA5C-SB-4.0-5.0  
CONTROL NO.: F132-03 F132-03A  
LAB FILE ID: 98F12075 98F12074  
DATIME EXTRACTD: 06/25/1211:30 06/25/1211:30 DATE COLLECTED: 06/19/12  
DATIME ANALYZD: 06/27/1221:37 06/27/1221:33 DATE RECEIVED: 06/19/12  
PREP. BATCH: IMF046S IMF046S  
CALIB. REF: 98F12067 98F12067

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	14400	2600	18600	160*	75-125
Antimony	0.251J	26.0	25.0	95	75-125
Arsenic	4.10	26.0	27.1	88	75-125
Barium	100	26.0	133	128*	75-125
Beryllium	0.618	26.0	23.8	89	75-125
Boron	ND	26.0	26.2	101	75-125
Cadmium	0.154J	26.0	23.8	91	75-125
Calcium	2330	2600	5160	109	75-125
Chromium	18.8	26.0	41.3	86	75-125
Cobalt	5.13	26.0	26.8	83	75-125
Copper	7.26	26.0	28.1	80	75-125
Iron	18000	2600	21400	130*	75-125
Lead	6.01	26.0	29.6	91	75-125
Magnesium	3610	2600	6750	121	75-125
Manganese	221	26.0	252	117	75-125
Molybdenum	1.21	26.0	25.9	95	75-125
Nickel	9.13	26.0	30.1	81	75-125
Potassium	2360	2600	5350	115	75-125
Selenium	ND	26.0	23.1	89	75-125
Silver	ND	26.0	24.0	92	75-125
Sodium	408	2600	3060	102	75-125
Strontium	25.7	26.0	51.3	98	75-125
Thallium	0.250J	26.0	23.7	90	75-125
Tin	ND	26.0	28.0	108	75-125
Titanium	815	26.0	886	272*	75-125
Vanadium	33.2	26.0	57.8	95	75-125
Zinc	37.8	52.0	84.3	89	75-125
Lithium	12.8	26.0	39.5	103	75-125
Phosphorus	142	260	408	102	75-125
Zirconium	ND	26.0	26.3	101	75-125

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F132  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 5.8  
DILTN FACTR: 0.957 0.957  
SAMPLE ID: SL-572-SA5C-SB-4.0-5.0  
CONTROL NO.: F132-08 F132-08A  
LAB FILE ID: 98F12086 98F12085  
DATIME EXTRCTD: 06/25/1211:30 06/25/1211:30 DATE COLLECTED: 06/19/12  
DATIME ANALYZD: 06/27/1222:27 06/27/1222:23 DATE RECEIVED: 06/19/12  
PREP. BATCH: IMF046S IMF046S  
CALIB. REF: 98F12079 98F12079

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	10800	2540	13900	121	75-125
Antimony	0.166J	25.4	25.6	100	75-125
Arsenic	3.50	25.4	27.4	94	75-125
Barium	66.1	25.4	96.9	121	75-125
Beryllium	0.458J	25.4	24.6	95	75-125
Boron	ND	25.4	25.1	99	75-125
Cadmium	0.0863J	25.4	24.4	96	75-125
Calcium	3580	2540	6280	106	75-125
Chromium	16.0	25.4	39.7	94	75-125
Cobalt	4.21	25.4	26.8	89	75-125
Copper	5.83	25.4	28.0	87	75-125
Iron	15200	2540	18000	113	75-125
Lead	3.91	25.4	27.9	95	75-125
Magnesium	3440	2540	6250	111	75-125
Manganese	168	25.4	193	96	75-125
Molybdenum	0.380J	25.4	25.5	99	75-125
Nickel	9.92	25.4	32.1	87	75-125
Potassium	1550	2540	4470	115	75-125
Selenium	ND	25.4	23.4	92	75-125
Silver	ND	25.4	24.3	96	75-125
Sodium	310	2540	2880	101	75-125
Strontium	27.9	25.4	53.0	99	75-125
Thallium	0.141J	25.4	24.4	96	75-125
Tin	ND	25.4	28.4	112	75-125
Titanium	590	25.4	634	174*	75-125
Vanadium	24.6	25.4	49.7	99	75-125
Zinc	33.0	50.8	79.7	92	75-125
Lithium	15.1	25.4	42.6	108	75-125
Phosphorus	239	254	518	110	75-125
Zirconium	ND	25.4	25.4	100	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F132  
 METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 6.7  
 DILUTION FACTOR: 0.971 4.85  
 SAMPLE ID: SL-528-SA5C-SB SL-528-SA5C-SB  
 EMAX SAMP ID: F132-03 F132-03J  
 LAB FILE ID: 98F12075 98F12076  
 DATE EXTRACTED: 06/25/1211:30 06/25/1211:30 DATE COLLECTED: 06/19/12  
 DATE ANALYZED: 06/27/1221:37 06/27/1221:42 DATE RECEIVED: 06/19/12  
 PREP. BATCH: IMF046S IMF046S  
 CALIB. REF: 98F12067 98F12067

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	14400	15200	6	10
Antimony	0.251J	ND	NA	10
Arsenic	4.10	4.23	3	10
Barium	100	97.0	3	10
Beryllium	0.618	0.629J	NA	10
Boron	ND	ND	0	10
Cadmium	0.154J	ND	NA	10
Calcium	2330	2500	7	10
Chromium	18.8	19.5	4	10
Cobalt	5.13	5.61	9	10
Copper	7.26	7.83	8	10
Iron	18000	19400	7	10
Lead	6.01	6.03	0	10
Magnesium	3610	3800	5	10
Manganese	221	240	8	10
Molybdenum	1.21	1.20J	NA	10
Nickel	9.13	9.69	6	10
Potassium	2360	2400	2	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	408	403J	1	10
Strontium	25.7	25.3	2	10
Thallium	0.250J	0.265J	6	10
Tin	ND	ND	0	10
Titanium	815	837	3	10
Vanadium	33.2	34.4	4	10
Zinc	37.8	38.8	2	10
Lithium	12.8	12.7	1	10
Phosphorus	142	153	8	10
Zirconium	ND	ND	0	10

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F132  
 METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 5.8  
 DILUTION FACTOR: 0.957 4.78  
 SAMPLE ID: SL-572-SA5C-SB SL-572-SA5C-SB  
 EMAX SAMP ID: F132-08 F132-08J  
 LAB FILE ID: 98F12086 98F12087  
 DATE EXTRACTED: 06/25/1211:30 06/25/1211:30 DATE COLLECTED: 06/19/12  
 DATE ANALYZED: 06/27/1222:27 06/27/1222:32 DATE RECEIVED: 06/19/12  
 PREP. BATCH: IMF046S IMF046S  
 CALIB. REF: 98F12079 98F12079

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	10800	11100	3	10
Antimony	0.166J	ND	NA	10
Arsenic	3.50	3.59	2	10
Barium	66.1	65.9	0	10
Beryllium	0.458J	0.492J	NA	10
Boron	ND	ND	0	10
Cadmium	0.0863J	ND	NA	10
Calcium	3580	3790	6	10
Chromium	16.0	17.1	7	10
Cobalt	4.21	4.46	6	10
Copper	5.83	6.34	9	10
Iron	15200	16300	8	10
Lead	3.91	4.04	4	10
Magnesium	3440	3560	3	10
Manganese	168	180	7	10
Molybdenum	0.380J	0.391J	NA	10
Nickel	9.92	10.7	8	10
Potassium	1550	1620	5	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	310	302J	NA	10
Strontium	27.9	27.3	2	10
Thallium	0.141J	ND	NA	10
Tin	ND	ND	0	10
Titanium	590	596	1	10
Vanadium	24.6	26.1	6	10
Zinc	33.0	35.9	9	10
Lithium	15.1	15.1	0	10
Phosphorus	239	252	5	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F132

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGG002SB	ND	1	NA	0.100	0.0500	07/02/1217:35	07/02/1213:21	M47G001040	M47G001032	HGG002S	NA	07/02/12
LCS1S	HGG002SL	0.867	1	NA	0.100	0.0500	07/02/1217:38	07/02/1213:21	M47G001041	M47G001032	HGG002S	NA	07/02/12
LCD1S	HGG002SC	0.870	1	NA	0.100	0.0500	07/02/1217:40	07/02/1213:21	M47G001042	M47G001032	HGG002S	NA	07/02/12
SL-528-SA5C-SB-4.0-5.0AS	F132-03A	1.04	0.988	6.7	0.106	0.0529	07/02/1217:42	07/02/1213:21	M47G001043	M47G001032	HGG002S	06/19/12	06/19/12
SL-528-SA5C-SB-4.0-5.0	F132-03	0.136	0.988	6.7	0.106	0.0529	07/02/1217:49	07/02/1213:21	M47G001046	M47G001044	HGG002S	06/19/12	06/19/12
SL-528-SA5C-SB-4.0-5.0DL	F132-03J	ND	4.94	6.7	0.529	0.265	07/02/1217:51	07/02/1213:21	M47G001047	M47G001044	HGG002S	06/19/12	06/19/12
SL-528-SA5C-SB-4.0-5.0MS	F132-03M	1.05	0.985	6.7	0.106	0.0528	07/02/1217:53	07/02/1213:21	M47G001048	M47G001044	HGG002S	06/19/12	06/19/12
SL-528-SA5C-SB-4.0-5.0MSD	F132-03S	1.06	0.988	6.7	0.106	0.0529	07/02/1217:55	07/02/1213:21	M47G001049	M47G001044	HGG002S	06/19/12	06/19/12
SL-572-SA5C-SB-4.0-5.0AS	F132-08A	0.929	1.00	5.8	0.106	0.0531	07/02/1217:57	07/02/1213:21	M47G001050	M47G001044	HGG002S	06/19/12	06/19/12
SL-572-SA5C-SB-4.0-5.0	F132-08	ND	1.00	5.8	0.106	0.0531	07/02/1217:59	07/02/1213:21	M47G001051	M47G001044	HGG002S	06/19/12	06/19/12
SL-572-SA5C-SB-4.0-5.0DL	F132-08J	ND	5.02	5.8	0.533	0.266	07/02/1218:01	07/02/1213:21	M47G001052	M47G001044	HGG002S	06/19/12	06/19/12
SL-572-SA5C-SB-4.0-5.0MS	F132-08M	0.948	0.998	5.8	0.106	0.0530	07/02/1218:03	07/02/1213:21	M47G001053	M47G001044	HGG002S	06/19/12	06/19/12
SL-572-SA5C-SB-4.0-5.0MSD	F132-08S	0.944	0.992	5.8	0.105	0.0527	07/02/1218:05	07/02/1213:21	M47G001054	M47G001044	HGG002S	06/19/12	06/19/12
SL-527-SA5C-SB-4.0-5.0	F132-01	ND	0.990	8.6	0.108	0.0542	07/02/1218:07	07/02/1213:21	M47G001055	M47G001044	HGG002S	06/19/12	06/19/12
SL-828-SA5C-SB-4.0-5.0	F132-05	0.0815J	1.00	6.5	0.107	0.0535	07/02/1218:15	07/02/1213:21	M47G001058	M47G001056	HGG002S	06/19/12	06/19/12
SL-572-SA5C-SB-0.0-0.5	F132-07	ND	0.993	11.3	0.112	0.0560	07/02/1218:17	07/02/1213:21	M47G001059	M47G001056	HGG002S	06/19/12	06/19/12
SL-872-SA5C-SB-4.0-5.0	F132-10	ND	1.00	6.8	0.107	0.0536	07/02/1218:19	07/02/1213:21	M47G001060	M47G001056	HGG002S	06/19/12	06/19/12
SL-524-SA5C-SB-4.0-5.0	F132-15	0.0584J	1.00	5.8	0.106	0.0531	07/02/1218:21	07/02/1213:21	M47G001061	M47G001056	HGG002S	06/19/12	06/19/12
SL-526-SA5C-SB-4.0-5.0	F132-18	ND	0.987	8.8	0.108	0.0541	07/02/1218:23	07/02/1213:21	M47G001062	M47G001056	HGG002S	06/19/12	06/19/12
SL-526-SA5C-SB-9.0-10.0	F132-20	ND	1.00	8.0	0.109	0.0543	07/02/1218:25	07/02/1213:21	M47G001063	M47G001056	HGG002S	06/19/12	06/19/12
SL-525-SA5C-SB-4.0-5.0	F132-21	ND	0.995	6.8	0.107	0.0534	07/02/1218:27	07/02/1213:21	M47G001064	M47G001056	HGG002S	06/19/12	06/19/12
SL-525-SA5C-SB-9.0-10.0	F132-23	0.573	0.992	7.9	0.108	0.0539	07/02/1218:29	07/02/1213:21	M47G001065	M47G001056	HGG002S	06/19/12	06/19/12
SL-670-SA5C-SB-4.0-5.0	F132-25	ND	1.01	6.2	0.108	0.0538	07/02/1218:31	07/02/1213:21	M47G001066	M47G001056	HGG002S	06/19/12	06/19/12
SL-670-SA5C-SB-0.0-0.5	F132-26	ND	0.997	11.5	0.113	0.0563	07/02/1218:34	07/02/1213:21	M47G001067	M47G001056	HGG002S	06/19/12	06/19/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F132  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGG002SB HGG002SL HGG002SC  
LAB FILE ID: M47G001040 M47G001041 M47G001042  
DATIME EXTRCTD: 07/02/1213:21 07/02/1213:21 07/02/1213:21 DATE COLLECTED: NA  
DATIME ANALYZD: 07/02/1217:35 07/02/1217:38 07/02/1217:40 DATE RECEIVED: 07/02/12  
PREP. BATCH: HGG002S HGG002S HGG002S  
CALIB. REF: M47G001032 M47G001032 M47G001032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.867	104	.833	.87	104	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F132  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 6.7  
DILTN FACTR: 0.988 0.985 0.988  
SAMPLE ID: SL-528-SA5C-SB-4.0-5.0  
CONTROL NO.: F132-03 F132-03M F132-03S  
LAB FILE ID: M47G001046 M47G001048 M47G001049  
DATIME EXTRCTD: 07/02/1213:21 07/02/1213:21 07/02/1213:21 DATE COLLECTED: 06/19/12  
DATIME ANALYZD: 07/02/1217:49 07/02/1217:53 07/02/1217:55 DATE RECEIVED: 06/19/12  
PREP. BATCH: HGG002S HGG002S HGG002S  
CALIB. REF: M47G001044 M47G001044 M47G001044

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	.136	.879	1.05	103	.882	1.06	105	2	65-135	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F132  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 5.8  
DILTN FACTR: 1.00 0.998 0.992  
SAMPLE ID: SL-572-SA5C-SB-4.0-5.0  
CONTROL NO.: F132-08 F132-08M F132-08S  
LAB FILE ID: M47G001051 M47G001053 M47G001054  
DATIME EXTRCTD: 07/02/1213:21 07/02/1213:21 07/02/1213:21 DATE COLLECTED: 06/19/12  
DATIME ANALYZD: 07/02/1217:59 07/02/1218:03 07/02/1218:05 DATE RECEIVED: 06/19/12  
PREP. BATCH: HGG002S HGG002S HGG002S  
CALIB. REF: M47G001044 M47G001044 M47G001044

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.883	.948	107	.877	.944	108	1	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F132  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 6.7  
DILTN FACTR: 0.988 0.988  
SAMPLE ID: SL-528-SA5C-SB-4.0-5.0  
CONTROL NO.: F132-03 F132-03A  
LAB FILE ID: M47G001046 M47G001043  
DATIME EXTRACTD: 07/02/1213:21 07/02/1213:21 DATE COLLECTED: 06/19/12  
DATIME ANALYZD: 07/02/1217:49 07/02/1217:42 DATE RECEIVED: 06/19/12  
PREP. BATCH: HGG002S HGG002S  
CALIB. REF: M47G001044 M47G001032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	.136	.882	1.04	102	85-115

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F132  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 5.8  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-572-SA5C-SB-4.0-5.0  
CONTROL NO.: F132-08 F132-08A  
LAB FILE ID: M47G001051 M47G001050  
DATIME EXTRACTD: 07/02/1213:21 07/02/1213:21 DATE COLLECTED: 06/19/12  
DATIME ANALYZD: 07/02/1217:59 07/02/1217:57 DATE RECEIVED: 06/19/12  
PREP. BATCH: HGG002S HGG002S  
CALIB. REF: M47G001044 M47G001044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.884	.929	105	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F132  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 6.7  
 DILUTION FACTOR: 0.988 4.94  
 SAMPLE ID: SL-528-SA5C-SB-4.0- SL-528-SA5C-SB-4.0-  
 EMAX SAMP ID: F132-03 F132-03J  
 LAB FILE ID: M47G001046 M47G001047  
 DATE EXTRACTED: 07/02/1213:21 07/02/1213:21 DATE COLLECTED: 06/19/12  
 DATE ANALYZED: 07/02/1217:49 07/02/1217:51 DATE RECEIVED: 06/19/12  
 PREP. BATCH: HGG002S HGG002S  
 CALIB. REF: M47G001044 M47G001044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	0.136	ND	NA	10

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F132  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 5.8  
 DILUTION FACTOR: 1.00 5.02  
 SAMPLE ID: SL-572-SA5C-SB-4.0- SL-572-SA5C-SB-4.0-  
 EMAX SAMP ID: F132-08 F132-08J  
 LAB FILE ID: M47G001051 M47G001052  
 DATE EXTRACTED: 07/02/1213:21 07/02/1213:21 DATE COLLECTED: 06/19/12  
 DATE ANALYZED: 07/02/1217:59 07/02/1218:01 DATE RECEIVED: 06/19/12  
 PREP. BATCH: HGG002S HGG002S  
 CALIB. REF: M47G001044 M47G001044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 9045D  
PH

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F132

Matrix : SOIL  
Instrument ID : 53

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL	MDL	Analysis	Extraction	LFID	CAL REF	PREP BATCH	Collection	Received
			(pH Unit)	(pH Unit)	(pH Unit)	(pH Unit)	DATE TIME	DATE TIME				DATE TIME	DATE TIME
SL-527-SA5C-SB-4.0-5.0	F132-01	7.81	1	NA	NA	NA	06/20/1218:30	06/20/1217:10	12PHF020S01	12PHF020	PHF020S	06/19/1210:40	06/19/12
SL-528-SA5C-SB-4.0-5.0	F132-03	8.10	1	NA	NA	NA	06/20/1218:32	06/20/1217:10	12PHF020S02	12PHF020	PHF020S	06/19/1210:00	06/19/12
SL-528-SA5C-SB-4.0-5.0.DUP	F132-03D	8.13	1	NA	NA	NA	06/20/1218:33	06/20/1217:10	12PHF020S03	12PHF020	PHF020S	06/19/1210:00	06/19/12
SL-828-SA5C-SB-4.0-5.0	F132-05	8.01	1	NA	NA	NA	06/20/1218:35	06/20/1217:10	12PHF020S04	12PHF020	PHF020S	06/19/1210:10	06/19/12
SL-572-SA5C-SB-0.0-0.5	F132-07	8.25	1	NA	NA	NA	06/20/1218:36	06/20/1217:10	12PHF020S05	12PHF020	PHF020S	06/19/1208:55	06/19/12
SL-572-SA5C-SB-4.0-5.0	F132-08	9.06	1	NA	NA	NA	06/20/1218:37	06/20/1217:10	12PHF020S06	12PHF020	PHF020S	06/19/1209:10	06/19/12
SL-572-SA5C-SB-4.0-5.0.DUP	F132-08D	9.05	1	NA	NA	NA	06/20/1218:38	06/20/1217:10	12PHF020S07	12PHF020	PHF020S	06/19/1209:10	06/19/12
SL-872-SA5C-SB-4.0-5.0	F132-10	9.07	1	NA	NA	NA	06/20/1218:39	06/20/1217:10	12PHF020S08	12PHF020	PHF020S	06/19/1209:15	06/19/12
SL-524-SA5C-SB-4.0-5.0	F132-15	8.72	1	NA	NA	NA	06/20/1218:40	06/20/1217:10	12PHF020S09	12PHF020	PHF020S	06/19/1213:00	06/19/12
SL-526-SA5C-SB-4.0-5.0	F132-18	8.39	1	NA	NA	NA	06/20/1218:41	06/20/1217:10	12PHF020S10	12PHF020	PHF020S	06/19/1213:35	06/19/12
SL-526-SA5C-SB-9.0-10.0	F132-20	8.38	1	NA	NA	NA	06/20/1218:42	06/20/1217:10	12PHF020S11	12PHF020	PHF020S	06/19/1213:40	06/19/12
SL-525-SA5C-SB-4.0-5.0	F132-21	8.25	1	NA	NA	NA	06/20/1218:43	06/20/1217:10	12PHF020S12	12PHF020	PHF020S	06/19/1214:30	06/19/12
SL-525-SA5C-SB-9.0-10.0	F132-23	8.59	1	NA	NA	NA	06/20/1218:44	06/20/1217:10	12PHF020S13	12PHF020	PHF020S	06/19/1214:35	06/19/12
SL-670-SA5C-SB-4.0-5.0	F132-25	8.98	1	NA	NA	NA	06/20/1218:45	06/20/1217:10	12PHF020S14	12PHF020	PHF020S	06/19/1215:20	06/19/12
SL-670-SA5C-SB-0.0-0.5	F132-26	8.19	1	NA	NA	NA	06/20/1218:46	06/20/1217:10	12PHF020S15	12PHF020	PHF020S	06/19/1215:50	06/19/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

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BATCH NO.: 12F132                      DATE RECEIVED: 06/19/12  
SAMPLE ID: SL-528-SA5C-SB-4.0-5.0DUP   DATE EXTRACTED: 06/20/12 17:10  
CONTROL NO.: F132-03D                 DATE ANALYZED: 06/20/12 18:33

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	8.10	8.13	-0.03	+/-0.1

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

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BATCH NO.: 12F132                      DATE RECEIVED: 06/19/12  
SAMPLE ID: SL-572-SA5C-SB-4.0-5.0DUP      DATE EXTRACTED: 06/20/12 17:10  
CONTROL NO.: F132-080                      DATE ANALYZED: 06/20/12 18:38

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	9.06	9.05	0.01	+/-0.1

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/26/12 19:01
Sample ID    : FB-062012                        Date Analyzed: 06/26/12 19:01
Lab Samp ID  : F146-01                          Dilution Factor: 1
Lab File ID  : RFV355                           Matrix          : WATER
Ext Btch ID  : VO01F18                          % Moisture     : NA
Calib. Ref.  : RBV366                           Instrument ID   : T-001
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	4.1	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.29J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	6.2J	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
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1, 2-DICHLOROETHANE-D4	10.4	10.00	104	80-120
4-BROMOFLUOROBENZENE	9.92	10.00	99.2	86-115
TOLUENE-D8	9.49	10.00	94.9	88-110
DIBROMOFLUOROMETHANE	10.2	10.00	102	86-118

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/26/12 19:30
Sample ID    : TB-062012                        Date Analyzed: 06/26/12 19:30
Lab Samp ID  : F146-02                          Dilution Factor: 1
Lab File ID  : RFV356                           Matrix          : WATER
Ext Btch ID  : VO01F18                          % Moisture     : NA
Calib. Ref.  : RBV366                           Instrument ID   : T-001
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	0.50J	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.5	10.00	105	80-120
4-BROMOFLUOROBENZENE	10.0	10.00	100	86-115
TOLUENE-D8	9.41	10.00	94.1	88-110
DIBROMOFLUOROMETHANE	10.1	10.00	101	86-118

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F146                           Date Extracted: 06/26/12 11:09
Sample ID    : MBLK1W                            Date Analyzed: 06/26/12 11:09
Lab Samp ID  : VO01F18B                         Dilution Factor: 1
Lab File ID  : RFV339                            Matrix          : WATER
Ext Btch ID  : VO01F18                           % Moisture     : NA
Calib. Ref.  : RBV366                            Instrument ID   : T-001
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	9.21	10.00	92.1	80-120
4-BROMOFLUOROBENZENE	9.67	10.00	96.7	86-115
TOLUENE-D8	9.51	10.00	95.1	88-110
DIBROMOFLUOROMETHANE	9.71	10.00	97.1	86-118

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VO01F18B VO01F18L VO01F18C  
LAB FILE ID: RFV339 RFV337 RFV338  
DATE EXTRACTED: 06/26/1211:09 06/26/1210:11 06/26/1210:39 DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1211:09 06/26/1210:11 06/26/1210:39 DATE RECEIVED: 06/26/12  
PREP. BATCH: VO01F18 VO01F18 VO01F18  
CALIB. REF: RBV366 RBV366 RBV366

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	10.0	10.4	104	10.0	9.90	99	5	70-130	30
1,1,1-Trichloroethane	ND	10.0	10.1	101	10.0	9.69	97	4	70-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	10.4	104	10.0	9.65	96	7	70-130	30
1,1,2-Trichloroethane	ND	10.0	10.6	106	10.0	9.96	100	7	70-130	30
1,1-Dichloroethane	ND	10.0	9.70	97	10.0	9.05	91	7	70-130	30
1,1-Dichloroethene	ND	10.0	8.77	88	10.0	8.09	81	8	60-130	30
1,1-Dichloropropene	ND	10.0	10.4	104	10.0	9.82	98	5	70-140	30
1,2,3-Trichlorobenzene	ND	10.0	9.53	95	10.0	9.32	93	2	60-130	30
1,2,3-Trichloropropane	ND	10.0	11.3	113	10.0	10.3	103	9	70-140	30
1,2,4-Trichlorobenzene	ND	10.0	10.1	101	10.0	9.81	98	3	60-140	30
1,2,4-Trimethylbenzene	ND	10.0	11.2	112	10.0	10.6	106	6	70-130	30
1,2-Dibromo-3-chloropropane	ND	10.0	9.18	92	10.0	8.74	87	5	60-130	30
1,2-Dichlorobenzene	ND	10.0	10.4	104	10.0	9.77	98	6	70-130	30
1,2-Dichloroethane	ND	10.0	10.8	108	10.0	10.1	101	7	70-130	30
1,2-Dichloropropane	ND	10.0	10.1	101	10.0	9.47	95	7	70-130	30
1,2-Dibromoethane (EDB)	ND	10.0	10.2	102	10.0	9.73	97	5	70-140	30
1,3,5-Trimethylbenzene	ND	10.0	11.2	112	10.0	10.7	107	5	70-130	30
1,3-Dichlorobenzene	ND	10.0	10.3	103	10.0	9.76	98	5	70-130	30
1,3-Dichloropropane	ND	10.0	9.69	97	10.0	9.12	91	6	70-130	30
1,4-Dichlorobenzene	ND	10.0	10.2	102	10.0	9.55	95	7	70-130	30
2,2-Dichloropropane	ND	10.0	9.35	94	10.0	8.80	88	6	50-140	30
2-Chlorotoluene	ND	10.0	10.5	105	10.0	9.95	100	5	70-130	30
4-Chlorotoluene	ND	10.0	10.8	108	10.0	10.3	103	5	70-130	30
Benzene	ND	10.0	9.63	96	10.0	9.11	91	6	70-130	30
Bromobenzene	ND	10.0	10.7	107	10.0	10.1	101	6	70-130	30
Bromochloromethane	ND	10.0	9.93	99	10.0	9.14	91	8	70-130	30
Bromodichloromethane	ND	10.0	9.84	98	10.0	9.31	93	6	70-130	30
Bromoform	ND	10.0	10.8	108	10.0	10.1	101	7	60-140	30
Bromomethane	ND	10.0	9.16	92	10.0	8.66	87	6	50-140	30
Carbon Tetrachloride	ND	10.0	10.7	107	10.0	10.2	102	5	70-130	30
Chlorobenzene	ND	10.0	10.7	107	10.0	10.1	101	6	70-120	30
Chloroethane	ND	10.0	9.26	93	10.0	8.93	89	4	70-140	30
Chloroform	ND	10.0	10.2	102	10.0	9.52	95	7	70-130	30
Chloromethane	ND	10.0	7.81	78	10.0	7.24	72	8	60-130	30
cis-1,2-Dichloroethene	ND	10.0	8.94	89	10.0	8.35	84	7	70-130	30
cis-1,3-Dichloropropene	ND	10.0	9.69	97	10.0	9.12	91	6	70-130	30
Dibromochloromethane	ND	10.0	10.3	103	10.0	9.57	96	7	70-130	30
Dibromomethane	ND	10.0	10.8	108	10.0	10.2	102	6	70-140	30
Dichlorodifluoromethane	ND	10.0	9.61	96	10.0	9.05	91	6	50-140	30
Ethylbenzene	ND	10.0	10.4	104	10.0	9.91	99	5	70-130	30
Hexachlorobutadiene	ND	10.0	11.5	115	10.0	10.9	109	5	60-140	30
Isopropyl Benzene	ND	10.0	12.2	122	10.0	11.8	118	4	70-150	30
m,p-Xylene	ND	20.0	20.5	103	20.0	19.2	96	6	70-130	30
Methyl tert-butyl Ether (MTBE)	ND	10.0	9.21	92	10.0	8.47	85	8	70-140	30
Methylene Chloride	ND	10.0	9.17	92	10.0	8.61	86	6	70-130	30
n-Butylbenzene	ND	10.0	10.9	109	10.0	10.5	105	4	60-130	30
n-Propylbenzene	ND	10.0	10.6	106	10.0	10.1	101	4	70-140	30
o-Xylene	ND	10.0	10.1	101	10.0	9.64	96	4	70-130	30

p-Isopropyltoluene	ND	10.0	11.5	115	10.0	11.0	110	4	70-140	30
Sec-Butylbenzene	ND	10.0	11.4	114	10.0	10.7	107	6	70-130	30
Styrene	ND	10.0	10.6	106	10.0	10.0	100	5	70-130	30
Tert-Butylbenzene	ND	10.0	10.5	105	10.0	10.0	100	5	70-130	30
Tetrachloroethene	ND	10.0	10.1	101	10.0	9.64	96	5	70-130	30
Toluene	ND	10.0	10.0	100	10.0	9.64	96	4	70-130	30
Trans-1,2-Dichloroethene	ND	10.0	8.80	88	10.0	8.10	81	8	70-130	30
Trans-1,3-Dichloropropene	ND	10.0	9.66	97	10.0	9.15	91	5	70-140	30
Trichloroethene	ND	10.0	10.2	102	10.0	9.65	96	5	70-130	30
Trichlorofluoromethane	ND	10.0	11.7	117	10.0	11.0	110	6	70-140	30
Vinyl Chloride	ND	10.0	8.68	87	10.0	8.25	83	5	60-150	30
Acetone	ND	50.0	49.2	98	50.0	45.1	90	9	50-150	30
2-Butanone (MEK)	ND	50.0	52.9	106	50.0	48.8	98	8	60-140	30
2-Hexanone	ND	50.0	51.4	103	50.0	48.3	97	6	70-140	30
4-Methyl-2-Pentanone (MIBK)	ND	50.0	53.1	106	50.0	50.2	100	6	60-140	30
Freon113	ND	10.0	10.2	102	10.0	9.50	95	7	70-140	30
2-Chloroethyl Vinyl Ether	ND	10.0	9.28	93	10.0	8.89	89	4	30-160	30
2-Chloro-1,1,1-trifluoroethane	ND	10.0	11.0	110	10.0	10.7	107	3	50-150	30
Chlorotrifluoroethylene	ND	10.0	9.95	99	10.0	9.34	93	6	50-150	30
1-Chlorohexane	ND	10.0	10.3	103	10.0	9.67	97	6	50-150	30
Carbon Disulfide	ND	10.0	9.15	91	10.0	8.63	86	6	40-150	30
Ethyl tertiary butyl Ether (ETBE)	ND	10.0	8.97	90	10.0	8.42	84	6	40-160	30
Iodomethane	ND	10.0	9.93	99	10.0	9.42	94	5	40-150	30
Tertiary Amyl Methyl Ether (TAME)	ND	10.0	9.14	91	10.0	8.45	84	8	50-150	30
Tertiary butyl Alcohol	ND	50.0	51.5	103	50.0	46.2	92	11	20-160	30
Vinyl Acetate	ND	10.0	9.43	94	10.0	7.59	76	22	10-160	30
Acrolein	ND	50.0	65.5	131	50.0	62.7	125	4	30-160	30
Acrylonitrile	ND	50.0	47.6	95	50.0	46.0	92	3	50-150	30
Diisopropyl Ether	ND	10.0	9.99	100	10.0	9.22	92	8	50-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	10.0	9.67	97	10.0	9.46	95	80-120
4-Bromofluorobenzene	10.0	8.88	89	10.0	9.08	91	86-115
Toluene-d8	10.0	8.97	90	10.0	9.03	90	88-110
Dibromofluoromethane	10.0	9.78	98	10.0	9.62	96	86-118

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/21/12 11:17
Sample ID    : SL-628-SA5C-SB-10.5             Date Analyzed: 06/21/12 11:17
Lab Samp ID  : F146-10                          Dilution Factor: 0.89
Lab File ID  : RFB338                           Matrix          : SOIL
Ext Btch ID  : VO03F19                          % Moisture     : 14.9
Calib. Ref.  : RFB141                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,1-TRICHLOROETHANE	ND	5.2	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.2	1.0
1,1,2-TRICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHANE	ND	5.2	1.0
1,1-DICHLOROETHENE	ND	5.2	1.0
1,1-DICHLOROPROPENE	ND	5.2	1.0
1,2,3-TRICHLOROBENZENE	ND	5.2	2.1
1,2,3-TRICHLOROPROPANE	ND	5.2	2.1
1,2,4-TRICHLOROBENZENE	ND	5.2	2.1
1,2,4-TRIMETHYLBENZENE	ND	5.2	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.2	2.1
1,2-DICHLOROBENZENE	ND	5.2	1.0
1,2-DICHLOROETHANE	ND	5.2	1.0
1,2-DICHLOROPROPANE	ND	5.2	1.0
1,2-DIBROMOETHANE (EDB)	ND	5.2	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.2	1.0
1,3-DICHLOROBENZENE	ND	5.2	1.0
1,3-DICHLOROPROPANE	ND	5.2	1.0
1,4-DICHLOROBENZENE	ND	5.2	1.0
2,2-DICHLOROPROPANE	ND	5.2	2.1
2-CHLOROTOLUENE	ND	5.2	1.0
4-CHLOROTOLUENE	ND	5.2	1.0
BENZENE	ND	5.2	1.0
BROMOBENZENE	ND	5.2	1.0
BROMOCHLOROMETHANE	ND	5.2	1.0
BROMODICHLOROMETHANE	ND	5.2	1.0
BROMOFORM	ND	5.2	2.1
BROMOMETHANE	ND	5.2	2.1
CARBON TETRACHLORIDE	ND	5.2	1.0
CHLOROBENZENE	ND	5.2	1.0
CHLOROETHANE	ND	5.2	2.1
CHLOROFORM	ND	5.2	1.0
CHLOROMETHANE	ND	5.2	2.1
CIS-1,2-DICHLOROETHENE	ND	5.2	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.2	1.0
DIBROMOCHLOROMETHANE	ND	5.2	1.0
DIBROMOMETHANE	ND	5.2	1.0
DICHLORODIFLUOROMETHANE	ND	5.2	2.1
ETHYLBENZENE	ND	5.2	1.0
HEXACHLOROBUTADIENE	ND	5.2	2.1
ISOPROPYL BENZENE	ND	5.2	1.0
M,P-XYLENE	ND	5.2	2.1
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.2	1.0
METHYLENE CHLORIDE	ND	5.2	2.1
N-BUTYLBENZENE	ND	5.2	1.0
N-PROPYLBENZENE	ND	5.2	1.0
O-XYLENE	ND	5.2	1.0
P-ISOPROPYLTOLUENE	ND	5.2	1.0
SEC-BUTYLBENZENE	ND	5.2	1.0
STYRENE	ND	5.2	1.0
TERT-BUTYLBENZENE	ND	5.2	1.0
TETRACHLOROETHENE	ND	5.2	1.0
TOLUENE	ND	5.2	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.2	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.2	1.0
TRICHLOROETHENE	ND	5.2	1.0
TRICHLOROFLUOROMETHANE	ND	5.2	2.1
VINYL CHLORIDE	ND	5.2	2.1
ACETONE	19	10	5.2
2-BUTANONE (MEK)	6.3J	10	5.2
2-HEXANONE	ND	10	5.2
4-METHYL-2-PENTANONE (MIBK)	ND	10	5.2
FREON113	ND	5.2	2.1
2-CHLOROETHYL VINYL ETHER	ND	5.2	2.1
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.2	2.1
CHLOROTRIFLUOROETHYLENE	ND	5.2	2.1
1-CHLOROHEXANE	ND	5.2	1.0
CARBON DISULFIDE	ND	5.2	2.1
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.2	1.0
IODOMETHANE	ND	5.2	2.1
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.2	1.0
TERTIARY BUTYL ALCOHOL	ND	21	10
VINYL ACETATE	ND	5.2	2.1
ACROLEIN	ND	10	5.2
ACRYLONITRILE	ND	10	5.2
DIISOPROPYL ETHER	ND	10	5.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	48.1	52.29	91.9	80-120
4-BROMOFLUOROBENZENE	62.9	52.29	120	74-121
TOLUENE-D8	53.1	52.29	102	81-117
DIBROMOFLUOROMETHANE	50.5	52.29	96.6	80-120

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/21/12 11:54
Sample ID    : SL-628-SA5C-SB-12.5             Date Analyzed: 06/21/12 11:54
Lab Samp ID  : F146-12                          Dilution Factor: 1.06
Lab File ID  : RFB339                           Matrix          : SOIL
Ext Btch ID  : VO03F19                          % Moisture     : 2.9
Calib. Ref.  : RFB141                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.5	1.1
1,1,1-TRICHLOROETHANE	ND	5.5	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.5	1.1
1,1,2-TRICHLOROETHANE	ND	5.5	1.1
1,1-DICHLOROETHANE	ND	5.5	1.1
1,1-DICHLOROETHENE	ND	5.5	1.1
1,1-DICHLOROPROPENE	ND	5.5	1.1
1,2,3-TRICHLOROBENZENE	ND	5.5	2.2
1,2,3-TRICHLOROPROPANE	ND	5.5	2.2
1,2,4-TRICHLOROBENZENE	ND	5.5	2.2
1,2,4-TRIMETHYLBENZENE	ND	5.5	1.1
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.5	2.2
1,2-DICHLOROBENZENE	ND	5.5	1.1
1,2-DICHLOROETHANE	ND	5.5	1.1
1,2-DICHLOROPROPANE	ND	5.5	1.1
1,2-DIBROMOETHANE (EDB)	ND	5.5	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.5	1.1
1,3-DICHLOROBENZENE	ND	5.5	1.1
1,3-DICHLOROPROPANE	ND	5.5	1.1
1,4-DICHLOROBENZENE	ND	5.5	1.1
2,2-DICHLOROPROPANE	ND	5.5	2.2
2-CHLOROTOLUENE	ND	5.5	1.1
4-CHLOROTOLUENE	ND	5.5	1.1
BENZENE	ND	5.5	1.1
BROMOBENZENE	ND	5.5	1.1
BROMOCHLOROMETHANE	ND	5.5	1.1
BROMODICHLOROMETHANE	ND	5.5	1.1
BROMOFORM	ND	5.5	2.2
BROMOMETHANE	ND	5.5	2.2
CARBON TETRACHLORIDE	ND	5.5	1.1
CHLOROBENZENE	ND	5.5	1.1
CHLOROETHANE	ND	5.5	2.2
CHLOROFORM	ND	5.5	1.1
CHLOROMETHANE	ND	5.5	2.2
CIS-1,2-DICHLOROETHENE	ND	5.5	1.1
CIS-1,3-DICHLOROPROPENE	ND	5.5	1.1
DIBROMOCHLOROMETHANE	ND	5.5	1.1
DIBROMOMETHANE	ND	5.5	1.1
DICHLORODIFLUOROMETHANE	ND	5.5	2.2
ETHYLBENZENE	ND	5.5	1.1
HEXACHLOROBUTADIENE	ND	5.5	2.2
ISOPROPYL BENZENE	ND	5.5	1.1
M,P-XYLENE	ND	5.5	2.2
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.5	1.1
METHYLENE CHLORIDE	ND	5.5	2.2
N-BUTYLBENZENE	ND	5.5	1.1
N-PROPYLBENZENE	ND	5.5	1.1
O-XYLENE	ND	5.5	1.1
P-ISOPROPYLTOLUENE	ND	5.5	1.1
SEC-BUTYLBENZENE	ND	5.5	1.1
STYRENE	ND	5.5	1.1
TERT-BUTYLBENZENE	ND	5.5	1.1
TETRACHLOROETHENE	ND	5.5	1.1
TOLUENE	ND	5.5	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.5	1.1
TRANS-1,3-DICHLOROPROPENE	ND	5.5	1.1
TRICHLOROETHENE	ND	5.5	1.1
TRICHLOROFLUOROMETHANE	ND	5.5	2.2
VINYL CHLORIDE	ND	5.5	2.2
ACETONE	ND	11	5.5
2-BUTANONE (MEK)	ND	11	5.5
2-HEXANONE	ND	11	5.5
4-METHYL-2-PENTANONE (MIBK)	ND	11	5.5
FREON113	ND	5.5	2.2
2-CHLOROETHYL VINYL ETHER	ND	5.5	2.2
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.5	2.2
CHLOROTRIFLUOROETHYLENE	ND	5.5	2.2
1-CHLOROHEXANE	ND	5.5	1.1
CARBON DISULFIDE	ND	5.5	2.2
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.5	1.1
IODOMETHANE	ND	5.5	2.2
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.5	1.1
TERTIARY BUTYL ALCOHOL	ND	22	11
VINYL ACETATE	ND	5.5	2.2
ACROLEIN	ND	11	5.5
ACRYLONITRILE	ND	11	5.5
DIISOPROPYL ETHER	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	50.8	54.58	93.1	80-120
4-BROMOFLUOROBENZENE	56.2	54.58	103	74-121
TOLUENE-D8	54.2	54.58	99.2	81-117
DIBROMOFLUOROMETHANE	50.7	54.58	92.9	80-120

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F146                           Date Extracted: 06/21/12 10:06
Sample ID    : MBLK1S                            Date Analyzed: 06/21/12 10:06
Lab Samp ID  : VO03F19B                         Dilution Factor: 1
Lab File ID  : RFB336                            Matrix          : SOIL
Ext Btch ID  : VO03F19                          % Moisture     : NA
Calib. Ref.  : RFB141                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,2-DIBROMOETHANE (EDB)	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-CHLOROTOLUENE	ND	5.0	1.0
4-CHLOROTOLUENE	ND	5.0	1.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DIBROMOMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
HEXACHLOROBUTADIENE	ND	5.0	2.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENE	ND	5.0	2.0
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.0	1.0
METHYLENE CHLORIDE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	5.0
FREON113	ND	5.0	2.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	2.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.0	2.0
CHLOROTRIFLUOROETHYLENE	ND	5.0	2.0
1-CHLOROHEXANE	ND	5.0	1.0
CARBON DISULFIDE	ND	5.0	2.0
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.0	1.0
IODOMETHANE	ND	5.0	2.0
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.0	1.0
TERTIARY BUTYL ALCOHOL	ND	20	10
VINYL ACETATE	ND	5.0	2.0
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	44.0	50.00	88.0	80-120
4-BROMOFLUOROBENZENE	48.3	50.00	96.7	74-121
TOLUENE-D8	46.4	50.00	92.8	81-117
DIBROMOFLUOROMETHANE	47.5	50.00	95.0	80-120

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F146                           Date Extracted: 06/21/12 10:43
Sample ID    : MBLK2S                            Date Analyzed: 06/21/12 10:43
Lab Samp ID  : VPF027SB                         Dilution Factor: 1
Lab File ID  : RFB337                           Matrix          : SOIL
Ext Btch ID  : VO03F19                          % Moisture     : NA
Calib. Ref.  : RFB141                           Instrument ID   : T-003
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,2-DIBROMOETHANE (EDB)	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-CHLOROTOLUENE	ND	5.0	1.0
4-CHLOROTOLUENE	ND	5.0	1.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DIBROMOMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
HEXACHLOROBUTADIENE	ND	5.0	2.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENE	ND	5.0	2.0
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.0	1.0
METHYLENE CHLORIDE	2.2J	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	5.0
FREON113	ND	5.0	2.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	2.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.0	2.0
CHLOROTRIFLUOROETHYLENE	ND	5.0	2.0
1-CHLOROHEXANE	ND	5.0	1.0
CARBON DISULFIDE	ND	5.0	2.0
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.0	1.0
IODOMETHANE	ND	5.0	2.0
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.0	1.0
TERTIARY BUTYL ALCOHOL	ND	20	10
VINYL ACETATE	ND	5.0	2.0
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	44.9	50.00	89.8	80-120
4-BROMOFLUOROBENZENE	46.9	50.00	93.9	74-121
TOLUENE-D8	47.5	50.00	94.9	81-117
DIBROMOFLUOROMETHANE	46.3	50.00	92.5	80-120

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 5035/8260B

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: VO03F19B VO03F19L VO03F19C  
LAB FILE ID: RFB336 RFB333 RFB334  
DATE EXTRACTED: 06/21/1210:06 06/21/1208:16 06/21/1208:53 DATE COLLECTED: NA  
DATE ANALYZED: 06/21/1210:06 06/21/1208:16 06/21/1208:53 DATE RECEIVED: 06/21/12  
PREP. BATCH: VO03F19 VO03F19 VO03F19  
CALIB. REF: RFB141 RFB141 RFB141

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	50.0	53.0	106	50.0	51.8	104	2	70-130	50
1,1,1-Trichloroethane	ND	50.0	54.0	108	50.0	52.9	106	2	60-130	50
1,1,2,2-Tetrachloroethane	ND	50.0	46.5	93	50.0	47.4	95	2	70-150	50
1,1,2-Trichloroethane	ND	50.0	54.2	108	50.0	52.0	104	4	70-140	50
1,1-Dichloroethane	ND	50.0	55.4	111	50.0	56.2	112	1	70-140	50
1,1-Dichloroethene	ND	50.0	54.1	108	50.0	53.5	107	1	60-130	50
1,1-Dichloropropene	ND	50.0	53.0	106	50.0	50.5	101	5	70-130	50
1,2,3-Trichlorobenzene	ND	50.0	47.4	95	50.0	46.9	94	1	60-150	50
1,2,3-Trichloropropane	ND	50.0	45.3	91	50.0	46.2	92	2	60-150	50
1,2,4-Trichlorobenzene	ND	50.0	50.8	102	50.0	49.7	99	2	60-140	50
1,2,4-Trimethylbenzene	ND	50.0	48.0	96	50.0	45.4	91	5	70-130	50
1,2-Dibromo-3-chloropropane	ND	50.0	49.2	98	50.0	51.2	102	4	50-150	50
1,2-Dichlorobenzene	ND	50.0	51.3	103	50.0	50.5	101	2	70-130	50
1,2-Dichloroethane	ND	50.0	48.4	97	50.0	46.7	93	4	60-140	50
1,2-Dichloropropane	ND	50.0	53.2	106	50.0	49.8	100	7	70-130	50
1,2-Dibromoethane (EDB)	ND	50.0	50.4	101	50.0	51.5	103	2	50-150	50
1,3,5-Trimethylbenzene	ND	50.0	47.1	94	50.0	45.4	91	4	70-130	50
1,3-Dichlorobenzene	ND	50.0	51.0	102	50.0	49.3	99	3	70-130	50
1,3-Dichloropropane	ND	50.0	54.9	110	50.0	52.0	104	5	70-140	50
1,4-Dichlorobenzene	ND	50.0	51.8	104	50.0	49.7	99	4	70-130	50
2,2-Dichloropropane	ND	50.0	52.9	106	50.0	54.3	109	3	40-140	50
2-Chlorotoluene	ND	50.0	46.6	93	50.0	45.6	91	2	70-130	50
4-Chlorotoluene	ND	50.0	47.7	95	50.0	45.8	92	4	70-130	50
Benzene	ND	50.0	51.4	103	50.0	49.7	99	3	70-130	50
Bromobenzene	ND	50.0	48.4	97	50.0	47.4	95	2	70-130	50
Bromochloromethane	ND	50.0	53.8	108	50.0	58.2	116	8	60-150	50
Bromodichloromethane	ND	50.0	50.6	101	50.0	49.4	99	2	60-130	50
Bromoform	ND	50.0	47.2	94	50.0	47.4	95	0	60-130	50
Bromomethane	ND	50.0	57.7	115	50.0	56.9	114	1	40-160	50
Carbon Tetrachloride	ND	50.0	49.4	99	50.0	47.4	95	4	50-130	50
Chlorobenzene	ND	50.0	52.1	104	50.0	50.6	101	3	70-130	50
Chloroethane	ND	50.0	48.8	98	50.0	48.6	97	0	60-150	50
Chloroform	ND	50.0	52.5	105	50.0	54.9	110	5	70-130	50
Chloromethane	ND	50.0	52.8	106	50.0	52.2	104	1	50-150	50
cis-1,2-Dichloroethene	ND	50.0	54.8	110	50.0	56.5	113	3	70-130	50
cis-1,3-Dichloropropene	ND	50.0	51.0	102	50.0	50.2	100	2	60-130	50
Dibromochloromethane	ND	50.0	52.8	106	50.0	52.6	105	0	70-130	50
Dibromomethane	ND	50.0	52.1	104	50.0	49.5	99	5	70-130	50
Dichlorodifluoromethane	ND	50.0	54.9	110	50.0	51.7	103	6	50-130	50
Ethylbenzene	ND	50.0	52.4	105	50.0	50.6	101	3	70-130	50
Hexachlorobutadiene	ND	50.0	49.9	100	50.0	47.9	96	4	50-140	50
Isopropyl Benzene	ND	50.0	47.6	95	50.0	45.8	92	4	70-140	50
m,p-Xylene	ND	100	100	100	100	97.7	98	2	70-140	50
Methyl tert-butyl Ether (MTBE)	ND	50.0	54.3	109	50.0	54.5	109	0	60-150	50
Methylene Chloride	ND	50.0	54.4	109	50.0	56.6	113	4	70-130	50
n-Butylbenzene	ND	50.0	51.7	103	50.0	49.0	98	5	50-150	50
n-Propylbenzene	ND	50.0	48.4	97	50.0	46.7	93	4	70-130	50
o-Xylene	ND	50.0	52.1	104	50.0	51.0	102	2	70-130	50

p-Isopropyltoluene	ND	50.0	49.7	99	50.0	47.6	95	4	60-140	50
Sec-Butylbenzene	ND	50.0	48.4	97	50.0	45.8	92	5	70-130	50
Styrene	ND	50.0	53.9	108	50.0	52.5	105	3	60-140	50
Tert-Butylbenzene	ND	50.0	49.5	99	50.0	47.7	95	4	70-130	50
Tetrachloroethene	ND	50.0	54.0	108	50.0	50.9	102	6	70-130	50
Toluene	ND	50.0	52.5	105	50.0	50.2	100	5	70-130	50
Trans-1,2-Dichloroethene	ND	50.0	54.8	110	50.0	56.0	112	2	70-130	50
Trans-1,3-Dichloropropene	ND	50.0	53.2	106	50.0	50.9	102	4	60-140	50
Trichloroethene	ND	50.0	52.8	106	50.0	49.9	100	5	70-130	50
Trichlorofluoromethane	ND	50.0	46.9	94	50.0	46.8	94	0	70-140	50
Vinyl Chloride	ND	50.0	48.5	97	50.0	48.5	97	0	60-150	50
Acetone	ND	250	263	105	250	272	109	3	40-160	50
2-Butanone (MEK)	ND	250	252	101	250	273	109	8	50-160	50
2-Hexanone	ND	250	258	103	250	237	95	9	60-160	50
4-Methyl-2-Pentanone (MIBK)	ND	250	220	88	250	227	91	3	70-160	50
Freon113	ND	50.0	56.4	113	50.0	57.3	115	2	50-140	50
2-Chloroethyl Vinyl Ether	ND	50.0	50.0	100	50.0	51.1	102	2	50-150	50
2-Chloro-1,1,1-trifluoroethane	ND	50.0	46.2	92	50.0	46.2	92	0	50-150	50
Chlorotrifluoroethylene	ND	50.0	53.0	106	50.0	52.4	105	1	50-150	50
1-Chlorohexane	ND	50.0	53.6	107	50.0	51.1	102	5	60-130	50
Carbon Disulfide	ND	50.0	50.4	101	50.0	50.7	101	1	40-140	50
Ethyl tertiary butyl Ether (ETBE)	ND	50.0	52.0	104	50.0	54.4	109	4	40-160	50
Iodomethane	ND	50.0	55.2	110	50.0	57.6	115	4	40-150	50
Tertiary Amyl Methyl Ether (TAME)	ND	50.0	52.8	106	50.0	53.4	107	1	50-150	50
Tertiary butyl Alcohol	ND	250	249	100	250	264	105	6	50-150	50
Vinyl Acetate	ND	50.0	52.6	105	50.0	48.4	97	8	10-160	50
Acrolein	ND	250	259	104	250	275	110	6	45-165	50
Acrylonitrile	ND	250	264	106	250	273	109	4	50-150	50
Diisopropyl Ether	ND	50.0	53.5	107	50.0	55.1	110	3	50-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	50.0	45.1	90	50.0	45.5	91	80-120
4-Bromofluorobenzene	50.0	48.0	96	50.0	48.4	97	74-121
Toluene-d8	50.0	47.4	95	50.0	48.2	96	81-117
Dibromofluoromethane	50.0	47.0	94	50.0	46.9	94	80-120

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```
=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/21/12 16:52
Sample ID    : FB-062012                       Date Analyzed: 06/21/12 16:52
Lab Samp ID  : F146-01                         Dilution Factor: 1
Lab File ID  : RFY249                          Matrix          : WATER
Ext Btch ID  : VOF5F16                         % Moisture     : NA
Calib. Ref.  : RFY081                          Instrument ID   : TOF5
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
-----	-----	-----	-----	
1,4-DIOXANE	ND	2.0	1.0	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	4.41	5.000	88.3	50-150

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/21/12 17:19
Sample ID    : TB-062012                       Date Analyzed: 06/21/12 17:19
Lab Samp ID  : F146-02                         Dilution Factor: 1
Lab File ID  : RFY250                          Matrix          : WATER
Ext Btch ID  : VOF5F16                        % Moisture      : NA
Calib. Ref.  : RFY081                         Instrument ID   : TOF5
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
1,4-DIOXANE	ND	2.0	1.0
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	4.48	5.000	89.5 50-150

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/21/12
Batch No.  : 12F146                             Date Extracted: 06/21/12 12:38
Sample ID  : MBLK1W                             Date Analyzed: 06/21/12 12:38
Lab Samp ID: VOF5F16B                          Dilution Factor: 1
Lab File ID: RFY244                            Matrix          : WATER
Ext Btch ID: VOF5F16                           % Moisture     : NA
Calib. Ref.: RFY081                            Instrument ID   : TOF5
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	4.39	5.000	87.9	50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: 5030B/8260B SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VOF5F16B VOF5F16L VOF5F16C  
LAB FILE ID: RFY244 RFY241 RFY242  
DATE EXTRACTED: 06/21/1212:38 06/21/1211:20 06/21/1211:46 DATE COLLECTED: NA  
DATE ANALYZED: 06/21/1212:38 06/21/1211:20 06/21/1211:46 DATE RECEIVED: 06/21/12  
PREP. BATCH: VOF5F16 VOF5F16 VOF5F16  
CALIB. REF: RFY081 RFY081 RFY081

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,4-Dioxane	ND	50.0	43.8	88	50.0	47.0	94	7	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	5.00	4.30	86	5.00	4.26	85	50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```
=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/22/12 02:21
Sample ID    : SL-628-SA5C-SB-10.5             Date Analyzed: 06/22/12 02:21
Lab Samp ID  : F146-10                          Dilution Factor: 0.88
Lab File ID  : RFY269                           Matrix          : SOIL
Ext Btch ID  : VOF5F17                          % Moisture     : 14.9
Calib. Ref.  : RFY069                           Instrument ID   : TOF5
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
1,4-DIOXANE	ND	10	5.2
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY
-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	17.5	20.68	84.4
			50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/22/12 02:48
Sample ID    : SL-628-SA5C-SB-12.5             Date Analyzed: 06/22/12 02:48
Lab Samp ID  : F146-12                         Dilution Factor: 1.05
Lab File ID  : RFY270                          Matrix          : SOIL
Ext Btch ID  : VOF5F17                        % Moisture     : 2.9
Calib. Ref.  : RFY069                          Instrument ID   : TOF5
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,4-DIOXANE	ND	11	5.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	18.0	21.63	83.3	50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.  : 12F146                           Date Extracted: 06/21/12 21:32
Sample ID  : MBLK1S                           Date Analyzed: 06/21/12 21:32
Lab Samp ID: VOF5F17B                         Dilution Factor: 1
Lab File ID: RFY258                           Matrix          : SOIL
Ext Btch ID: VOF5F17                          % Moisture     : NA
Calib. Ref.: RFY069                           Instrument ID   : TOF5
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,4-DIOXANE	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	21.3	20.00	107	50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/21/12
Batch No.    : 12F146                             Date Extracted: 06/21/12 21:58
Sample ID    : MBLK2S                             Date Analyzed: 06/21/12 21:58
Lab Samp ID  : VPF029SB                           Dilution Factor: 1
Lab File ID  : RPY259                             Matrix          : SOIL
Ext Btch ID  : VOF5F17                            % Moisture     : NA
Calib. Ref.  : RPY069                             Instrument ID   : TOF5
=====
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
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1,4-DIOXANE	ND	10	5.0
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY
-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	20.0	20.00	100

QC LIMIT  
50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: 5035/8260B SIM

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MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: VOF5F17B VOF5F17L VOF5F17C  
LAB FILE ID: RFY258 RFY255 RFY256  
DATE EXTRACTED: 06/21/1221:32 06/21/1220:13 06/21/1220:40 DATE COLLECTED: NA  
DATE ANALYZED: 06/21/1221:32 06/21/1220:13 06/21/1220:40 DATE RECEIVED: 06/21/12  
PREP. BATCH: VOF5F17 VOF5F17 VOF5F17  
CALIB. REF: RFY069 RFY069 RFY069

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,4-Dioxane	ND	200	169	85	200	186	93	10	50-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	20.0	20.9	105	20.0	19.8	99	50-150

METHOD 3520C/8270C  
SEMI VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/25/12 13:15
Sample ID    : FB-062012                        Date Analyzed: 07/02/12 21:05
Lab Samp ID  : F146-01                          Dilution Factor: 1.02
Lab File ID  : RGH017                           Matrix          : WATER
Ext Btch ID  : SVF050W                          % Moisture     : NA
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,2,4-TRICHLOROBENZENE	ND	10	5.1
1,2-DICHLOROBENZENE	ND	10	5.1
1,2-DIPHENYLHYDRAZINE (1)	ND	10	5.1
1,3-DICHLOROBENZENE	ND	10	5.1
1,4-DICHLOROBENZENE	ND	10	5.1
2,4,5-TRICHLOROPHENOL	ND	10	5.1
2,4,6-TRICHLOROPHENOL	ND	10	5.1
2,4-DICHLOROPHENOL	ND	10	5.1
2,4-DIMETHYLPHENOL	ND	10	5.1
2,4-DINITROPHENOL	ND	20	5.1
2-CHLORONAPHTHALENE	ND	10	5.1
2-CHLOROPHENOL	ND	10	5.1
2-METHYLPHENOL	ND	10	5.1
2-NITROANILINE	ND	10	5.1
2-NITROPHENOL	ND	10	5.1
2,6-DICHLOROPHENOL	ND	10	5.1
3,3'-DICHLOROENZIDINE	ND	10	5.1
3,5-DIMETHYLPHENOL	ND	20	5.1
3-NITROANILINE	ND	10	5.1
4,6-DINITRO-2-METHYLPHENOL	ND	20	5.1
4-BROMOPHENYL-PHENYLETHER	ND	10	5.1
4-CHLORO-3-METHYLPHENOL	ND	10	5.1
4-CHLOROANILINE	ND	10	5.1
4-CHLOROPHENYL-PHENYLETHER	ND	10	5.1
4-METHYLPHENOL (2)	ND	10	5.1
4-NITROANILINE	ND	10	5.1
4-NITROPHENOL	ND	20	5.1
ANILINE	ND	20	10
BENZIDINE	ND	51	20
BENZOIC ACID	ND	41	20
BENZYL ALCOHOL	ND	10	5.1
BIS(2-CHLOROETHOXY)METHANE	ND	10	5.1
BIS(2-CHLOROETHYL)ETHER	ND	10	5.1
BIS(2-CHLOROISOPROPYL)ETHER	ND	10	5.1
BIS(2-ETHYLHEXYL)PHTHALATE	ND	20	5.1
BUTYLBENZYLPHTHALATE	ND	10	5.1
CARBAZOLE	ND	10	5.1
DIBENZOFURAN	ND	10	5.1
DIETHYLPHTHALATE	ND	10	5.1
DIMETHYLPHTHALATE	ND	10	5.1
DI-N-BUTYLPHTHALATE	ND	10	5.1
DI-N-OCTYLPHTHALATE	ND	10	5.1
HEXACHLOROENZENE	ND	10	5.1
HEXACHLOROBUTADIENE	ND	10	5.1
HEXACHLOROCYCLOPENTADIENE	ND	20	5.1
HEXACHLOROETHANE	ND	10	5.1
ISOPHORONE	ND	10	5.1
NITROBENZENE	ND	10	5.1
N-NITROSO-DI-N-PROPYLAMINE	ND	10	5.1
PENTACHLOROPHENOL	ND	20	5.1
PHENOL	ND	10	5.1
N-NITROSODIPHENYLAMINE (3)	ND	10	5.1
TETRALIN	ND	10	5.1
2-BUTOXYETHANOL	ND	10	5.1
2-PHENOXYETHANOL	ND	10	5.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	38.3	61.20	62.5	30-130
2-FLUOROBIPHENYL	12.3	20.40	60.4	45-130
2-FLUOROPHENOL	34.3	61.20	56.1	20-130
NITROBENZENE-D5	12.2	20.40	59.7	40-130
PHENOL-D5	37.8	61.20	61.7	20-120
TERPHENYL-D14	16.0	20.40	78.5	45-135

(1): Cannot be separated from Azobenzene

(2): Cannot be separated from 3-Methylphenol and m+p Cresol

(3): Cannot be separated from Diphenylamine

Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

METHOD 3520C/8270C  
SEMI VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
Batch No.    : 12F146                           Date Extracted: 06/25/12 13:15
Sample ID    : MBLK1W                           Date Analyzed: 07/02/12 19:10
Lab Samp ID  : SVF050WB                         Dilution Factor: 1
Lab File ID  : RGH011                           Matrix          : WATER
Ext Btch ID  : SVF050W                          % Moisture     : NA
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS	RL (ug/L)	MDL (ug/L)
1,2,4-TRICHLOROBENZENE	ND	10	5.0
1,2-DICHLOROBENZENE	ND	10	5.0
1,2-DIPHENYLHYDRAZINE (1)	ND	10	5.0
1,3-DICHLOROBENZENE	ND	10	5.0
1,4-DICHLOROBENZENE	ND	10	5.0
2,4,5-TRICHLOROPHENOL	ND	10	5.0
2,4,6-TRICHLOROPHENOL	ND	10	5.0
2,4-DICHLOROPHENOL	ND	10	5.0
2,4-DIMETHYLPHENOL	ND	10	5.0
2,4-DINITROPHENOL	ND	20	5.0
2-CHLORONAPHTHALENE	ND	10	5.0
2-CHLOROPHENOL	ND	10	5.0
2-METHYLPHENOL	ND	10	5.0
2-NITROANILINE	ND	10	5.0
2-NITROPHENOL	ND	10	5.0
2,6-DICHLOROPHENOL	ND	10	5.0
3,3'-DICHLOROENZIDINE	ND	10	5.0
3,5-DIMETHYLPHENOL	ND	20	5.0
3-NITROANILINE	ND	10	5.0
4,6-DINITRO-2-METHYLPHENOL	ND	20	5.0
4-BROMOPHENYL-PHENYLETHER	ND	10	5.0
4-CHLORO-3-METHYLPHENOL	ND	10	5.0
4-CHLOROANILINE	ND	10	5.0
4-CHLOROPHENYL-PHENYLETHER	ND	10	5.0
4-METHYLPHENOL (2)	ND	10	5.0
4-NITROANILINE	ND	10	5.0
4-NITROPHENOL	ND	20	5.0
ANILINE	ND	20	10
BENZIDINE	ND	50	20
BENZOIC ACID	ND	40	20
BENZYL ALCOHOL	ND	10	5.0
BIS(2-CHLOROETHOXY)METHANE	ND	10	5.0
BIS(2-CHLOROETHYL)ETHER	ND	10	5.0
BIS(2-CHLOROISOPROPYL)ETHER	ND	10	5.0
BIS(2-ETHYLHEXYL)PHTHALATE	ND	20	5.0
BUTYLBENZYLPHTHALATE	ND	10	5.0
CARBAZOLE	ND	10	5.0
DIBENZOFURAN	ND	10	5.0
DIETHYLPHTHALATE	ND	10	5.0
DIMETHYLPHTHALATE	ND	10	5.0
DI-N-BUTYLPHTHALATE	ND	10	5.0
DI-N-OCTYLPHTHALATE	ND	10	5.0
HEXACHLOROENZENE	ND	10	5.0
HEXACHLOROBUTADIENE	ND	10	5.0
HEXACHLOROCYCLOPENTADIENE	ND	20	5.0
HEXACHLOROETHANE	ND	10	5.0
ISOPHORONE	ND	10	5.0
NITROBENZENE	ND	10	5.0
N-NITROSO-DI-N-PROPYLAMINE	ND	10	5.0
PENTACHLOROPHENOL	ND	20	5.0
PHENOL	ND	10	5.0
N-NITROSODIPHENYLAMINE (3)	ND	10	5.0
TETRALIN	ND	10	5.0
2-BUTOXYETHANOL	ND	10	5.0
2-PHENOXYETHANOL	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	45.9	60.00	76.4	30-130
2-FLUOROBIPHENYL	13.4	20.00	67.1	45-130
2-FLUOROPHENOL	40.8	60.00	68.0	20-130
NITROBENZENE-D5	14.8	20.00	73.9	40-130
PHENOL-D5	44.9	60.00	74.8	20-120
TERPHENYL-D14	18.5	20.00	92.6	45-135

(1): Cannot be separated from Azobenzene

(2): Cannot be separated from 3-Methylphenol and m+p Cresol

(3): Cannot be separated from Diphenylamine

Note: Tetralin, 2-butoxyethanol and 2-phenoxyethanol are reported based on a single calibration point.

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 3520C/8270C

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVF050WB SVF050WL SVF050WC  
LAB FILE ID: RGH011 RGH012 RGH013  
DATE EXTRACTED: 06/25/1213:15 06/25/1213:15 06/25/1213:15 DATE COLLECTED: NA  
DATE ANALYZED: 07/02/1219:10 07/02/1219:29 07/02/1219:48 DATE RECEIVED: 06/25/12  
PREP. BATCH: SVF050W SVF050W SVF050W  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,2,4-Trichlorobenzene	ND	40.0	16.7	42	40.0	17.6	44	5	30-130	30
1,2-Dichlorobenzene	ND	40.0	17.4	44	40.0	18.0	45	3	30-130	30
1,2-Diphenylhydrazine	ND	40.0	20.4	51	40.0	23.5	59	14	30-130	30
1,3-Dichlorobenzene	ND	40.0	17.4	43	40.0	17.6	44	1	30-130	30
1,4-Dichlorobenzene	ND	40.0	17.6	44	40.0	18.0	45	2	30-130	30
2,4,5-Trichlorophenol	ND	40.0	21.1	53	40.0	17.2	43	21	30-130	30
2,4,6-Trichlorophenol	ND	40.0	21.7	54	40.0	17.3	43	23	30-130	30
2,4-Dichlorophenol	ND	40.0	19.7	49	40.0	15.9	40	22	40-130	30
2,4-Dimethylphenol	ND	40.0	20.4	51	40.0	18.5	46	10	30-130	30
2,4-Dinitrophenol	ND	40.0	23.5	59	40.0	24.3	61	3	30-130	30
2-Chloronaphthalene	ND	40.0	20.3	51	40.0	19.1	48	6	40-130	30
2-Chlorophenol	ND	40.0	18.7	47	40.0	13.7	34	31*	30-130	30
2-Methylphenol	ND	40.0	17.9	45	40.0	15.0	37	18	30-130	30
2-Nitroaniline	ND	40.0	22.8	57	40.0	24.7	62	8	40-130	30
2-Nitrophenol	ND	40.0	19.5	49	40.0	15.8	40	21	40-130	30
2,6-Dichlorophenol	ND	40.0	20.7	52	40.0	17.1	43	19	30-150	30
3,3'-Dichlorobenzidine	ND	40.0	13.1	33	40.0	26.6	67	68*	20-140	30
3,5-Dimethylphenol	ND	40.0	20.5	51	40.0	17.0J	43	18	20-150	30
3-Nitroaniline	ND	40.0	20.0	50	40.0	24.9	62	22	30-130	30
4,6-Dinitro-2-Methylphenol	ND	40.0	23.7	59	40.0	27.2	68	14	40-130	30
4-Bromophenyl-phenylether	ND	40.0	24.6	62	40.0	28.5	71	15	50-130	30
4-Chloro-3-Methylphenol	ND	40.0	22.8	57	40.0	18.6	46	20	30-130	30
4-Chloroaniline	ND	40.0	11.8	30	40.0	18.3	46	43*	30-130	30
4-Chlorophenyl-phenylether	ND	40.0	25.1	63	40.0	27.4	68	9	50-130	30
4-Methylphenol	ND	40.0	19.2	48	40.0	15.9	40	19	30-130	30
4-Nitroaniline	ND	40.0	24.0	60	40.0	27.7	69	14	30-130	30
4-Nitrophenol	ND	40.0	22.3	56	40.0	25.4	63	13	30-130	30
Aniline	ND	40.0	5.70J	14	40.0	14.3J	36	86*	10-130	30
Benzidine	ND	80.0	ND	0*	80.0	ND	0*	0	20-130	30
Benzoic Acid	ND	80.0	43.3	54	80.0	35.2J	44	21	10-130	30
Benzyl Alcohol	ND	40.0	19.5	49	40.0	20.1	50	3	30-130	30
bis(2-Chloroethoxy)methane	ND	40.0	19.5	49	40.0	20.2	51	4	40-130	30
bis(2-Chloroethyl)ether	ND	40.0	20.2	51	40.0	20.5	51	1	30-130	30
bis(2-Chloroisopropyl)ether	ND	40.0	21.5	54	40.0	20.1	50	7	20-130	30
bis(2-Ethylhexyl)phthalate	ND	40.0	23.6	59	40.0	31.1	78	27	20-140	30
Butylbenzylphthalate	ND	40.0	24.1	60	40.0	31.2	78	26	40-130	30
Carbazole	ND	40.0	22.8	57	40.0	28.5	71	22	50-130	30
Dibenzofuran	ND	40.0	23.1	58	40.0	24.5	61	6	40-130	30
Diethylphthalate	ND	40.0	24.2	61	40.0	29.3	73	19	30-140	30
Dimethylphthalate	ND	40.0	23.4	59	40.0	27.0	68	14	30-130	30
Di-n-butylphthalate	ND	40.0	23.3	58	40.0	29.8	74	24	30-160	30
Di-n-octylphthalate	ND	40.0	22.6	57	40.0	30.0	75	28	20-150	30
Hexachlorobenzene	ND	40.0	22.4	56	40.0	26.3	66	16	30-130	30
Hexachlorobutadiene	ND	40.0	17.2	43	40.0	18.2	45	5	10-130	30
Hexachlorocyclopentadiene	ND	40.0	10.9J	27	40.0	11.5J	29	5	10-130	30
Hexachloroethane	ND	40.0	16.7	42	40.0	17.2	43	3	20-130	30
Isophorone	ND	40.0	20.9	52	40.0	22.0	55	5	40-130	30
Nitrobenzene	ND	40.0	20.5	51	40.0	20.9	52	2	30-130	30

n-Nitroso-di-n-propylamine	ND	40.0	17.2	43	40.0	17.5	44	2	30-130	30
Pentachlorophenol	ND	40.0	22.4	56	40.0	23.3	58	4	30-130	30
Phenol	ND	40.0	19.2	48	40.0	15.3	38	23	20-130	30
n-Nitrosodiphenylamine	ND	40.0	17.2	43	40.0	20.6	52	18	10-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
2,4,6-Tribromophenol	60.0	35.1	59	60.0	32.9	55	30-130
2-Fluorobiphenyl	20.0	10.1	50	20.0	9.18	46	45-130
2-Fluorophenol	60.0	24.3	41	60.0	16.1	27	20-130
Nitrobenzene-d5	20.0	9.25	46	20.0	9.44	47	40-130
Phenol-d5	60.0	28.6	48	60.0	22.7	38	20-120
Terphenyl-d14	20.0	12.5	62	20.0	15.8	79	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/25/12 13:15
Sample ID    : FB-062012                        Date Analyzed: 07/02/12 21:05
Lab Samp ID  : F146-01                          Dilution Factor: 1.02
Lab File ID  : RGH017                           Matrix          : WATER
Ext Btch ID  : SVF050W                          % Moisture     : NA
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	0.26	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.51

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	12.8	20.40	62.7	40-130
2-FLUOROBIPHENYL	12.2	20.40	60.0	45-130
TERPHENYL-D14	16.3	20.40	80.1	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
Batch No.    : 12F146                           Date Extracted: 06/25/12 13:15
Sample ID    : MBLK1W                            Date Analyzed: 07/02/12 19:10
Lab Samp ID  : SVF050WB                         Dilution Factor: 1
Lab File ID  : RGH011                            Matrix          : WATER
Ext Btch ID  : SVF050W                           % Moisture     : NA
Calib. Ref.  : RPH072                            Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	15.7	20.00	78.7	40-130
2-FLUOROBIPHENYL	14.7	20.00	73.4	45-130
TERPHENYL-D14	19.0	20.00	94.9	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVF050WB SVF050WL SVF050WC  
LAB FILE ID: RGH011 RGH012 RGH013  
DATE EXTRACTED: 06/25/1213:15 06/25/1213:15 06/25/1213:15 DATE COLLECTED: NA  
DATE ANALYZED: 07/02/1219:10 07/02/1219:29 07/02/1219:48 DATE RECEIVED: 06/25/12  
PREP. BATCH: SVF050W SVF050W SVF050W  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	24.6	61	40.0	25.4	64	3	20-130	30
Acenaphthylene	ND	40.0	26.2	65	40.0	27.0	67	3	30-140	30
Anthracene	ND	40.0	24.1	60	40.0	28.9	72	18	40-130	30
Benzo (a) anthracene	ND	40.0	25.3	63	40.0	32.3	81	25	50-130	30
Benzo (a) pyrene	ND	40.0	25.8	65	40.0	33.2	83	25	50-130	30
Benzo (b) fluoranthene	ND	40.0	28.7	72	40.0	35.4	88	21	50-130	30
Benzo (k) fluoranthene	ND	40.0	24.6	62	40.0	33.0	83	29	50-130	30
Benzo (g, h, i) perylene	ND	40.0	27.0	68	40.0	34.9	87	25	30-150	30
Chrysene	ND	40.0	24.6	62	40.0	31.6	79	25	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	27.8	69	40.0	35.9	90	26	40-140	30
Fluoranthene	ND	40.0	26.4	66	40.0	33.3	83	23	40-130	30
Fluorene	ND	40.0	27.4	69	40.0	29.9	75	9	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	27.8	69	40.0	35.9	90	25	40-130	30
Naphthalene	ND	40.0	21.0	53	40.0	21.7	54	3	20-130	30
Phenanthrene	ND	40.0	24.6	61	40.0	29.3	73	18	40-130	30
2-Methylnaphthalene	ND	40.0	22.8	57	40.0	23.2	58	2	30-150	30
1-Methylnaphthalene	ND	40.0	23.0	57	40.0	23.4	59	2	40-150	30
N-Nitrosodimethylamine	ND	40.0	19.6	49	40.0	19.5	49	1	20-150	30
Pyrene	ND	40.0	25.7	64	40.0	32.3	81	23	40-130	30
Azobenzene	ND	40.0	21.8	54	40.0	25.1	63	14	30-150	30
Benzo (e) pyrene	ND	40.0	24.1	60	40.0	30.3	76	23	30-150	30
Biphenyl	ND	40.0	21.4	53	40.0	21.3	53	0	30-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	9.74	49	20.0	10.1	50	40-130
2-Fluorobiphenyl	20.0	9.97	50	20.0	10.1	50	45-130
Terphenyl-d14	20.0	12.9	64	20.0	16.4	82	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-587-SA5C-SB-4.0-5.0          Date Analyzed: 07/04/12 00:05
Lab Samp ID  : F146-04                           Dilution Factor: 1
Lab File ID  : RGH066                             Matrix          : SOIL
Ext Btch ID  : SVF060S                            % Moisture     : 12.5
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	500	1143	43.7	40-130
2-FLUOROBIPHENYL	396	1143	34.6*	45-130
TERPHENYL-D14	832	1143	72.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-887-SA5C-SB-4.0-5.0          Date Analyzed: 07/04/12 00:25
Lab Samp ID  : F146-06                          Dilution Factor: 1
Lab File ID  : RGH067                           Matrix          : SOIL
Ext Btch ID  : SVF060S                          % Moisture     : 12.1
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	384	1138	33.8*	40-130
2-FLUOROBIPHENYL	308	1138	27.0*	45-130
TERPHENYL-D14	778	1138	68.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-587-SA5C-SB-8.5-9.5          Date Analyzed: 07/04/12 00:44
Lab Samp ID  : F146-08                          Dilution Factor: 1
Lab File ID  : RGH068                           Matrix          : SOIL
Ext Btch ID  : SVF060S                          % Moisture     : 10.5
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	431	1117	38.5*	40-130
2-FLUOROBIPHENYL	425	1117	38.1*	45-130
TERPHENYL-D14	800	1117	71.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-604-SA5C-SB-4.0-5.0          Date Analyzed: 07/04/12 01:03
Lab Samp ID  : F146-09                           Dilution Factor: 1
Lab File ID  : RGH069                             Matrix          : SOIL
Ext Btch ID  : SVF060S                            % Moisture     : 5.6
Calib. Ref. : RPH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.6
ACENAPHTHYLENE	ND	11	2.6
ANTHRACENE	4.2J	11	2.6
BENZO (A) ANTHRACENE	21	11	2.6
BENZO (A) PYRENE	16	11	2.6
BENZO (B) FLUORANTHENE	26	11	2.6
BENZO (K) FLUORANTHENE	8.6J	11	2.6
BENZO (G, H, I) PERYLENE	6.1J	11	2.6
CHRYSENE	24	11	2.6
DIBENZO (A, H) ANTHRACENE	2.7J	11	2.6
FLUORANTHENE	44	11	2.6
FLUORENE	ND	11	2.6
INDENO (1, 2, 3-CD) PYRENE	5.6J	11	2.6
NAPHTHALENE	ND	11	2.6
PHENANTHRENE	27	11	2.6
2-METHYLNAPHTHALENE	ND	11	2.6
1-METHYLNAPHTHALENE	ND	11	2.6
N-NITROSODIMETHYLAMINE	ND	11	2.6
PYRENE	33	11	2.6
AZOBENZENE	ND	5.3	2.6
BENZO (E) PYRENE	13	5.3	2.6
BIPHENYL	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	385	1059	36.3*	40-130
2-FLUOROBIPHENYL	428	1059	40.4*	45-130
TERPHENYL-D14	755	1059	71.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-628-SA5C-SB-11.5-12.5        Date Analyzed: 07/04/12 01:22
Lab Samp ID  : F146-11                          Dilution Factor: 1
Lab File ID  : RGH070                           Matrix          : SOIL
Ext Btch ID  : SVF060S                          % Moisture     : 8.4
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	305	1092	28.0*	40-130
2-FLUOROBIPHENYL	327	1092	29.9*	45-130
TERPHENYL-D14	673	1092	61.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-630-SA5C-SB-8.0-9.0          Date Analyzed: 07/04/12 01:41
Lab Samp ID  : F146-13                          Dilution Factor: 2
Lab File ID  : RGH071                           Matrix          : SOIL
Ext Btch ID  : SVF060S                          % Moisture     : 7.7
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.4
ACENAPHTHYLENE	ND	22	5.4
ANTHRACENE	ND	22	5.4
BENZO (A) ANTHRACENE	ND	22	5.4
BENZO (A) PYRENE	ND	22	5.4
BENZO (B) FLUORANTHENE	ND	22	5.4
BENZO (K) FLUORANTHENE	ND	22	5.4
BENZO (G, H, I) PERYLENE	ND	22	5.4
CHRYSENE	ND	22	5.4
DIBENZO (A, H) ANTHRACENE	ND	22	5.4
FLUORANTHENE	ND	22	5.4
FLUORENE	ND	22	5.4
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.4
NAPHTHALENE	ND	22	5.4
PHENANTHRENE	ND	22	5.4
2-METHYLNAPHTHALENE	ND	22	5.4
1-METHYLNAPHTHALENE	ND	22	5.4
N-NITROSODIMETHYLAMINE	ND	22	5.4
PYRENE	ND	22	5.4
AZOBENZENE	ND	11	5.4
BENZO (E) PYRENE	ND	11	5.4
BIPHENYL	ND	11	5.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	257	1083	23.8*	40-130
2-FLUOROBIPHENYL	360	1083	33.3*	45-130
TERPHENYL-D14	841	1083	77.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/29/12
Batch No.    : 12F146                           Date Extracted: 06/29/12 17:08
Sample ID    : MBLK1S                           Date Analyzed: 07/03/12 18:02
Lab Samp ID  : SVF060SB                         Dilution Factor: 1
Lab File ID  : RGH047                           Matrix          : SOIL
Ext Btch ID  : SVF060S                          % Moisture     : NA
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	594	1000	59.4	40-130
2-FLUOROBIPHENYL	642	1000	64.2	45-130
TERPHENYL-D14	862	1000	86.2	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF060SB SVF060SL SVF060SC  
LAB FILE ID: RGH047 RGH048 RGH049  
DATE EXTRACTED: 06/29/1217:08 06/29/1217:08 06/29/1217:08 DATE COLLECTED: NA  
DATE ANALYZED: 07/03/1218:02 07/03/1218:21 07/03/1218:40 DATE RECEIVED: 06/29/12  
PREP. BATCH: SVF060S SVF060S SVF060S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	279	84	333	276	83	1	10-130	50
Acenaphthylene	ND	333	296	89	333	292	88	1	20-130	50
Anthracene	ND	333	276	83	333	269	81	2	20-130	50
Benzo (a) anthracene	ND	333	312	94	333	315	94	1	30-130	50
Benzo (a) pyrene	ND	333	311	93	333	314	94	1	30-130	50
Benzo (b) fluoranthene	ND	333	330	99	333	356	107	8	40-130	50
Benzo (k) fluoranthene	ND	333	318	95	333	300	90	6	30-140	50
Benzo (g, h, i) perylene	ND	333	327	98	333	331	99	1	30-140	50
Chrysene	ND	333	302	91	333	305	91	1	30-140	50
Dibenzo (a, h) anthracene	ND	333	338	101	333	343	103	1	40-140	50
Fluoranthene	ND	333	317	95	333	313	94	1	30-130	50
Fluorene	ND	333	302	91	333	294	88	3	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	337	101	333	343	103	2	20-160	50
Naphthalene	ND	333	258	77	333	244	73	5	10-130	50
Phenanthrene	ND	333	282	85	333	273	82	3	20-130	50
2-Methylnaphthalene	ND	333	275	83	333	270	81	2	30-150	50
1-Methylnaphthalene	ND	333	276	83	333	272	82	2	30-150	50
N-Nitrosodimethylamine	ND	333	238	71	333	211	63	12	30-150	50
Pyrene	ND	333	308	92	333	305	92	1	20-150	50
Azobenzene	ND	333	245	74	333	238	71	3	30-150	50
Benzo (e) pyrene	ND	333	281	84	333	295	88	5	30-150	50
Biphenyl	ND	333	219	66	333	222	67	2	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	1000	653	65	1000	685	68	40-130
2-Fluorobiphenyl	1000	664	66	1000	706	71	45-130
Terphenyl-d14	1000	780	78	1000	857	86	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 12.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-587-SA5C-SB-4.0-5.0  
LAB SAMP ID: F146-04 F146-04M F146-04S  
LAB FILE ID: RGH066 RGH109 RGH110  
DATE EXTRACTED: 06/29/1217:08 06/29/1217:08 06/29/1217:08 DATE COLLECTED: 06/20/12  
DATE ANALYZED: 07/04/1200:05 07/05/1219:49 07/05/1220:08 DATE RECEIVED: 06/20/12  
PREP. BATCH: SVF060S SVF060S SVF060S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	381	173	46	381	160	42	8	10-130	50
Acenaphthylene	ND	381	184	48	381	169	44	8	20-130	50
Anthracene	ND	381	220	58	381	213	56	3	20-130	50
Benzo (a) anthracene	ND	381	253	67	381	251	66	1	30-130	50
Benzo (a) pyrene	ND	381	261	68	381	254	67	3	30-130	50
Benzo (b) fluoranthene	ND	381	306	80	381	300	79	2	30-130	50
Benzo (k) fluoranthene	ND	381	258	68	381	254	67	1	30-130	50
Benzo (g, h, i) perylene	ND	381	199	52	381	198	52	1	30-140	50
Chrysene	ND	381	247	65	381	245	64	1	20-130	50
Dibenzo (a, h) anthracene	ND	381	232	61	381	231	61	0	30-130	50
Fluoranthene	ND	381	261	68	381	257	68	1	30-150	50
Fluorene	ND	381	199	52	381	187	49	6	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	381	223	59	381	223	59	0	20-160	50
Naphthalene	ND	381	115	30	381	119	31	4	10-130	50
Phenanthrene	ND	381	223	59	381	218	57	2	20-130	50
2-Methylnaphthalene	ND	381	152	40	381	148	39	3	30-150	50
1-Methylnaphthalene	ND	381	156	41	381	150	39	4	30-150	50
N-Nitrosodimethylamine	ND	381	160	42	381	151	40	6	20-150	50
Pyrene	ND	381	253	66	381	250	66	1	10-160	50
Azobenzene	ND	381	168	44	381	159	42	6	30-150	50
Benzo (e) pyrene	ND	381	243	64	381	240	63	1	30-150	50
Biphenyl	ND	381	126	33	381	123	32	2	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	1140	379	33*	1140	359	31*	40-130
2-Fluorobiphenyl	1140	315	28*	1140	307	27*	45-130
Terphenyl-d14	1140	679	59	1140	664	58	45-135

METHOD 5030B/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client      : CDM                               Date Collected: 06/20/12
Project     : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.   : 12F146                           Date Extracted: 06/27/12 05:33
Sample ID   : FB-062012                        Date Analyzed: 06/27/12 05:33
Lab Samp ID : F146-01                          Dilution Factor: 1
Lab File ID : EF25060A                         Matrix          : WATER
Ext Btch ID : VG39F13                          % Moisture     : NA
Calib. Ref. : EF25056A                         Instrument ID   : GCT039
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	28J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	36.1	40.00	90.3 60-140

RL : Reporting Limit  
Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/27/12 06:17
Sample ID    : TB-062012                        Date Analyzed: 06/27/12 06:17
Lab Samp ID  : F146-02                          Dilution Factor: 1
Lab File ID  : EF25061A                         Matrix          : WATER
Ext Btch ID  : VG39F13                          % Moisture      : NA
Calib. Ref.  : EF25056A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	28J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	36.2	40.00	90.6 60-140

RL : Reporting Limit  
 Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/26/12
Batch No.  : 12F146                             Date Extracted: 06/26/12 20:50
Sample ID  : MBLK1W                             Date Analyzed: 06/26/12 20:50
Lab Samp ID: VG39F13B                          Dilution Factor: 1
Lab File ID: EF25048A                          Matrix          : WATER
Ext Btch ID: VG39F13                           % Moisture     : NA
Calib. Ref.: EF25044A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	35.6	40.00	89.1 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F13B VG39F13L VG39F13C  
LAB FILE ID: EF25048A EF25050A EF25051A  
DATE EXTRACTED: 06/26/1220:50 06/26/1222:17 06/26/1223:01 DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1220:50 06/26/1222:17 06/26/1223:01 DATE RECEIVED: 06/26/12  
PREP. BATCH: VG39F13 VG39F13 VG39F13  
CALIB. REF: EF25044A EF25044A EF25044A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	466	93	500	441	88	5	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	44.1	110	40.0	42.6	107	60-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/20/12
Project    : SSFL PHASE 3                       Date Received: 06/20/12
Batch No.  : 12F146                             Date Extracted: 06/24/12 12:06
Sample ID: SL-587-SA5C-SB-5.0                 Date Analyzed: 06/24/12 12:06
Lab Samp ID: F146-03                          Dilution Factor: 0.89
Lab File ID: EF22063A                         Matrix          : SOIL
Ext Btch ID: GMF016S                          % Moisture     : 13.4
Calib. Ref.: EF22054A                         Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.77	2.055	86.1 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/21/12 15:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/24/12 14:59
Sample ID    : SL-887-SA5C-SB-5.0              Date Analyzed: 06/24/12 14:59
Lab Samp ID  : F146-05                          Dilution Factor: 0.81
Lab File ID  : EF22067A                        Matrix          : SOIL
Ext Btch ID  : GMF016S                          % Moisture     : 13.0
Calib. Ref.  : EF22066A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.93	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.54	1.862	82.7 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/21/12 15:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/24/12 15:43
Sample ID    : SL-587-SA5C-SB-9.5              Date Analyzed: 06/24/12 15:43
Lab Samp ID  : F146-07                          Dilution Factor: 0.9
Lab File ID  : EF22068A                         Matrix          : SOIL
Ext Btch ID  : GMF016S                          % Moisture     : 11.8
Calib. Ref.  : EF22066A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.69	2.041	83.0 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/21/12 15:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/24/12 16:26
Sample ID    : SL-628-SA5C-SB-10.5             Date Analyzed: 06/24/12 16:26
Lab Samp ID  : F146-10                          Dilution Factor: 0.88
Lab File ID  : EF22069A                        Matrix          : SOIL
Ext Btch ID  : GMF016S                         % Moisture     : 14.9
Calib. Ref.  : EF22066A                       Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.73	2.068	83.6 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/21/12 15:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/20/12
Project    : SSFL PHASE 3                       Date Received: 06/20/12
Batch No.  : 12F146                             Date Extracted: 06/24/12 17:10
Sample ID  : SL-628-SA5C-SB-12.5              Date Analyzed: 06/24/12 17:10
Lab Samp ID: F146-12                           Dilution Factor: 1.11
Lab File ID: EF22070A                          Matrix          : SOIL
Ext Btch ID: GMF016S                            % Moisture     : 2.9
Calib. Ref.: EF22066A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.57
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	2.13	2.286	93.1 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/21/12 15:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/24/12 17:53
Sample ID:   SL-630-SA5C-SB-9.0                 Date Analyzed: 06/24/12 17:53
Lab Samp ID: F146-14                            Dilution Factor: 0.86
Lab File ID: EF22071A                           Matrix          : SOIL
Ext Btch ID: GMF016S                             % Moisture     : 9.4
Calib. Ref.: EF22066A                           Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.95	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.70	1.898	89.5 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/21/12 15:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/20/12
Project     : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.   : 12F146                           Date Extracted: 06/24/12 18:37
Sample ID:  SL-604-SA5C-SB-5.0                Date Analyzed: 06/24/12 18:37
Lab Samp ID: F146-15                          Dilution Factor: 0.81
Lab File ID: EF22072A                         Matrix          : SOIL
Ext Btch ID: GMF016S                          % Moisture     : 12.5
Calib. Ref.: EF22066A                         Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.93	0.46
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.58	1.851	85.3 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/21/12 15:01

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/24/12
Batch No.   : 12F146                           Date Extracted: 06/24/12 09:13
Sample ID   : MBLK1S                           Date Analyzed: 06/24/12 09:13
Lab Samp ID: GMF016SB                          Dilution Factor: 1
Lab File ID: EF22059A                          Matrix          : SOIL
Ext Btch ID: GMF016S                            % Moisture     : NA
Calib. Ref.: EF22054A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.85	2.000	92.6 60-130

RL : Reporting Limit  
 Methanol Extraction: 06/21/12 15:01

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF016SB GMF016SL GMF016SC  
LAB FILE ID: EF22059A EF22060A EF22061A  
DATE EXTRACTED: 06/24/1209:13 06/24/1209:56 06/24/1210:39 DATE COLLECTED: NA  
DATE ANALYZED: 06/24/1209:13 06/24/1209:56 06/24/1210:39 DATE RECEIVED: 06/24/12  
PREP. BATCH: GMF016S GMF016S GMF016S  
CALIB. REF: EF22054A EF22054A EF22054A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	21.5	86	25.0	21.3	85	1	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.26	113	2.00	2.26	113	60-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: 13.4  
DILUTION FACTOR: 0.89 0.82 0.84  
SAMPLE ID: SL-587-SA5C-SB-5.0  
LAB SAMP ID: F146-03 F146-03M F146-03S  
LAB FILE ID: EF22063A EF22064A EF22065A  
DATE EXTRACTED: 06/24/1212:06 06/24/1212:49 06/24/1213:32 DATE COLLECTED: 06/20/12  
DATE ANALYZED: 06/24/1212:06 06/24/1212:49 06/24/1213:32 DATE RECEIVED: 06/20/12  
PREP. BATCH: GMF016S GMF016S GMF016S  
CALIB. REF: EF22054A EF22054A EF22054A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	23.7	19.7	83	24.2	19.6	81	2	50-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	1.89	2.19	116	1.94	2.05	105	70-140

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/21/12 11:51
Sample ID    : FB-062012                        Date Analyzed: 06/21/12 11:51
Lab Samp ID  : F146-01                          Dilution Factor: 1
Lab File ID  : BF21012A                        Matrix          : WATER
Ext Btch ID  : MEF004W                          % Moisture      : NA
Calib. Ref.  : BF21003A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F146                           Date Extracted: 06/21/12 09:30
Sample ID    : MBLK1W                           Date Analyzed: 06/21/12 09:30
Lab Samp ID  : MEF004WB                         Dilution Factor: 1
Lab File ID  : BF21004A                        Matrix          : WATER
Ext Btch ID  : MEF004W                         % Moisture     : NA
Calib. Ref.  : BF21003A                        Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 8015B

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: MEF004WB MEF004WL MEF004WC  
LAB FILE ID: BF21004A BF21005A BF21006A  
DATE EXTRACTED: 06/21/1209:30 06/21/1209:54 06/21/1210:16 DATE COLLECTED: NA  
DATE ANALYZED: 06/21/1209:30 06/21/1209:54 06/21/1210:16 DATE RECEIVED: 06/21/12  
PREP. BATCH: MEF004W MEF004W MEF004W  
CALIB. REF: BF21003A BF21003A BF21003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	9370	94	10000	10100	102	8	50-150	30
Isopropanol	ND	10000	9470	95	10000	10100	101	6	50-150	30
Methanol	ND	10000	10600	106	10000	11400	114	8	50-150	30

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/20/12
Project     : SSFL PHASE 3                       Date Received: 06/20/12
Batch No.   : 12F146                             Date Extracted: 06/21/12 12:27
Sample ID   : FB-062012                          Date Analyzed: 06/21/12 12:27
Lab Samp ID: F146-01                              Dilution Factor: 1
Lab File ID: TF21008A                             Matrix          : WATER
Ext Btch ID: PEF003W                              % Moisture     : NA
Calib. Ref.: TF21003A                             Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.   : 12F146                           Date Extracted: 06/21/12 11:44
Sample ID   : MBLK1W                           Date Analyzed: 06/21/12 11:44
Lab Samp ID: PEF003WB                         Dilution Factor: 1
Lab File ID: TF21006A                         Matrix          : WATER
Ext Btch ID: PEF003W                          % Moisture     : NA
Calib. Ref.: TF21003A                         Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 8015M

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PEF003WB PEF003WL PEF003WC  
LAB FILE ID: TF21006A TF21004A TF21005A  
DATE EXTRACTED: 06/21/1211:44 06/21/1210:52 06/21/1211:16 DATE COLLECTED: NA  
DATE ANALYZED: 06/21/1211:44 06/21/1210:52 06/21/1211:16 DATE RECEIVED: 06/21/12  
PREP. BATCH: PEF003W PEF003W PEF003W  
CALIB. REF: TF21003A TF21003A TF21003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	48.9	98	50.0	50.8	102	4	50-150	30
Ethylene Glycol	ND	50.0	47.6	95	50.0	51.3	103	7	50-150	30
Propylene Glycol	ND	25.0	26.2	105	25.0	28.4	114	8	50-150	30

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/21/12 15:30
Sample ID    : FB-062012                        Date Analyzed: 06/22/12 23:14
Lab Samp ID  : F146-01                          Dilution Factor: .97
Lab File ID  : LF21106A                         Matrix          : WATER
Ext Btch ID  : DSF027W                          % Moisture     : NA
Calib. Ref. : LF21099A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.097	0.049
EFH(C12-C14)	ND	0.097	0.049
EFH(C15-C20)	ND	0.097	0.049
EFH(C21-C30)	ND	0.097	0.049
EFH(C30-C40)	ND	0.097	0.049
TOTAL EFH(C8-C40)	ND	0.097	0.049

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.802	0.9700	82.7	40-130
HEXACOSANE	0.272	0.2425	112	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/21/12
Batch No.    : 12F146                             Date Extracted: 06/21/12 15:30
Sample ID    : MBLK1W                             Date Analyzed: 06/22/12 21:50
Lab Samp ID  : DSF027WB                           Dilution Factor: 1
Lab File ID  : LF21101A                           Matrix          : WATER
Ext Btch ID  : DSF027W                             % Moisture      : NA
Calib. Ref. : LF21099A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.766	1.000	76.6	40-130
HEXACOSANE	0.256	0.2500	102	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSF027WB DSF027WL DSF027WC  
LAB FILE ID: LF21101A LF21102A LF21103A  
DATE EXTRACTED: 06/21/1215:30 06/21/1215:30 06/21/1215:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/22/1221:50 06/22/1222:06 06/22/1222:23 DATE RECEIVED: 06/21/12  
PREP. BATCH: DSF027W DSF027W DSF027W  
CALIB. REF: LF21099A LF21099A LF21099A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.47	89	5.00	4.21	84	6	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.870	87	1.00	0.829	83	40-130
Hexacosane	0.250	0.277	111	0.250	0.265	106	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/22/12 13:19
Sample ID:   SL-587-SA5C-SB-4.0-5.0           Date Analyzed: 06/23/12 12:07
Lab Samp ID: F146-04                           Dilution Factor: 1
Lab File ID: LF21152A                          Matrix          : SOIL
Ext Btch ID: DSF029S                           % Moisture     : 12.5
Calib. Ref.: LF21147A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	3.0J	5.7	2.9
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	3.0J	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	82.7	114.3	72.4	50-150
HEXACOSANE	30.4	28.57	106	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/22/12 13:19
Sample ID    : SL-887-SA5C-SB-4.0-5.0          Date Analyzed: 06/23/12 12:58
Lab Samp ID  : F146-06                           Dilution Factor: 1
Lab File ID  : LF21155A                         Matrix          : SOIL
Ext Btch ID  : DSF029S                          % Moisture     : 12.1
Calib. Ref. : LF21147A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	83.8	113.8	73.7	50-150
HEXACOSANE	30.5	28.44	107	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/22/12 13:19
Sample ID    : SL-587-SA5C-SB-8.5-9.5          Date Analyzed: 06/23/12 13:15
Lab Samp ID  : F146-08                           Dilution Factor: 1
Lab File ID  : LF21156A                          Matrix          : SOIL
Ext Btch ID  : DSF029S                           % Moisture     : 10.5
Calib. Ref.  : LF21147A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.5	111.7	64.9	50-150
HEXACOSANE	29.4	27.93	105	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/22/12 13:19
Sample ID:   SL-604-SA5C-SB-4.0-5.0           Date Analyzed: 06/23/12 13:32
Lab Samp ID: F146-09                           Dilution Factor: 1
Lab File ID: LF21157A                          Matrix          : SOIL
Ext Btch ID: DSF029S                           % Moisture     : 5.6
Calib. Ref.: LF21147A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.6
EFH(C12-C14)	ND	5.3	2.6
EFH(C15-C20)	ND	5.3	2.6
EFH(C21-C30)	3.0J	5.3	2.6
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	3.0J	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.0	105.9	72.6	50-150
HEXACOSANE	27.7	26.48	105	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/22/12 13:19
Sample ID    : SL-628-SA5C-SB-11.5-12.5        Date Analyzed: 06/23/12 14:40
Lab Samp ID  : F146-11                          Dilution Factor: 1
Lab File ID  : LF21161A                        Matrix          : SOIL
Ext Btch ID  : DSF029S                          % Moisture     : 8.4
Calib. Ref.  : LF21159A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	2.9J	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	2.9J	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.6	109.2	71.1	50-150
HEXACOSANE	29.2	27.29	107	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/22/12 13:19
Sample ID    : SL-630-SA5C-SB-8.0-9.0          Date Analyzed: 06/23/12 13:49
Lab Samp ID  : F146-13                          Dilution Factor: 1
Lab File ID  : LF21158A                         Matrix          : SOIL
Ext Btch ID  : DSF029S                           % Moisture     : 7.7
Calib. Ref.  : LF21147A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	4.7J	5.4	2.7
EFH(C30-C40)	7.5J	11	5.4
TOTAL EFH(C8-C40)	12	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.2	108.3	70.3	50-150
HEXACOSANE	29.2	27.09	108	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/22/12
Batch No.    : 12F146                             Date Extracted: 06/22/12 13:19
Sample ID    : MBLK1S                             Date Analyzed: 06/23/12 07:03
Lab Samp ID  : DSF029SB                           Dilution Factor: 1
Lab File ID  : LF21134A                           Matrix          : SOIL
Ext Btch ID  : DSF029S                             % Moisture      : NA
Calib. Ref.  : LF21123A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.6	100.0	76.6	50-150
HEXACOSANE	26.2	25.00	105	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF029SB DSF029SL DSF029SC  
LAB FILE ID: LF21134A LF21132A LF21133A  
DATE EXTRACTED: 06/22/1213:19 06/22/1213:19 06/22/1213:19 DATE COLLECTED: NA  
DATE ANALYZED: 06/23/1207:03 06/23/1206:30 06/23/1206:47 DATE RECEIVED: 06/22/12  
PREP. BATCH: DSF029S DSF029S DSF029S  
CALIB. REF: LF21123A LF21123A LF21123A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	430	86	500	436	87	2	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	86.5	87	100	81.8	82	50-150
Hexacosane	25.0	27.5	110	25.0	25.7	103	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 12.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-587-SA5C-SB-4.0-5.0  
LAB SAMP ID: F146-04 F146-04M F146-04S  
LAB FILE ID: LF21152A LF21153A LF21154A  
DATE EXTRACTED: 06/22/1213:19 06/22/1213:19 06/22/1213:19 DATE COLLECTED: 06/20/12  
DATE ANALYZED: 06/23/1212:07 06/23/1212:24 06/23/1212:41 DATE RECEIVED: 06/20/12  
PREP. BATCH: DSF029S DSF029S DSF029S  
CALIB. REF: LF21147A LF21147A LF21147A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	3.0J	571	469	82	571	462	80	1	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	114	90.5	79	114	87.5	77	50-150
Hexacosane	28.6	30.2	106	28.6	29.9	104	50-150

METHOD 3520C/8081A  
PESTICIDES

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/25/12 11:45
Sample ID    : FB-062012                        Date Analyzed: 06/26/12 22:49
Lab Samp ID  : F146-01                          Dilution Factor: 0.99
Lab File ID  : RF26015A                        Matrix          : WATER
Ext Btch ID  : CPF027W                         % Moisture     : NA
Calib. Ref.  : RF26005A                        Instrument ID   : F9
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ALPHA-BHC	(ND)   ND	0.099	0.0099   0.0099
GAMMA-BHC (LINDANE)	(ND)   ND	0.099	0.0099   0.0099
BETA-BHC	(ND)   0.015J	0.099	0.0099   0.0099
HEPTACHLOR	(ND)   ND	0.099	0.0099   0.0099
DELTA-BHC	(ND)   ND	0.099	0.0099   0.0099
ALDRIN	(ND)   ND	0.099	0.0099   0.0099
HEPTACHLOR EPOXIDE	(ND)   ND	0.099	0.0099   0.0099
ENDOSULFAN I	(ND)   ND	0.099	0.0099   0.0099
4,4'-DDE	(ND)   ND	0.099	0.0099   0.0099
DIELDRIN	0.052J   (ND)	0.099	0.0099   0.0099
ENDRIN	(ND)   ND	0.099	0.0099   0.0099
4,4'-DDD	(ND)   ND	0.099	0.0099   0.0099
ENDOSULFAN II	(ND)   ND	0.099	0.0099   0.0099
4,4'-DDT	(ND)   ND	0.099	0.0099   0.0099
ENDRIN ALDEHYDE	(ND)   ND	0.099	0.0099   0.0099
ENDOSULFAN SULFATE	(ND)   ND	0.099	0.0099   0.0099
ENDRIN KETONE	(ND)   ND	0.099	0.0099   0.0099
METHOXYCHLOR	(ND)   ND	0.99	0.099   0.099
MIREX	(ND)   ND	0.099	0.0099   0.0099
TOXAPHENE	(ND)   ND	2.0	0.50   0.50
CHLORDANE (TECHNICAL)	0.40J   (ND)	0.99	0.25   0.25

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(0.2786)   0.2703	0.3960	(70.3)   68.3	60-140
DECACHLOROBIPHENYL	0.3056   (0.3339)	0.3960	77.2   (84.3)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3520C/8081A  
PESTICIDES

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/25/12
Batch No.    : 12F146                             Date Extracted: 06/25/12 11:45
Sample ID    : MBLK1W                             Date Analyzed: 06/26/12 21:03
Lab Samp ID  : CPF027WB                           Dilution Factor: 1
Lab File ID  : RF26010A                           Matrix          : WATER
Ext Btch ID  : CPF027W                             % Moisture      : NA
Calib. Ref.  : RF26005A                           Instrument ID   : F9
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ALPHA-BHC	(ND)   ND	0.10	0.010   0.010
GAMMA-BHC (LINDANE)	(ND)   ND	0.10	0.010   0.010
BETA-BHC	(ND)   ND	0.10	0.010   0.010
HEPTACHLOR	(ND)   ND	0.10	0.010   0.010
DELTA-BHC	(ND)   ND	0.10	0.010   0.010
ALDRIN	(ND)   ND	0.10	0.010   0.010
HEPTACHLOR EPOXIDE	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN I	(ND)   ND	0.10	0.010   0.010
4,4'-DDE	(ND)   ND	0.10	0.010   0.010
DIELDRIN	(ND)   ND	0.10	0.010   0.010
ENDRIN	(ND)   ND	0.10	0.010   0.010
4,4'-DDD	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN II	(ND)   ND	0.10	0.010   0.010
4,4'-DDT	(ND)   ND	0.10	0.010   0.010
ENDRIN ALDEHYDE	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN SULFATE	(ND)   ND	0.10	0.010   0.010
ENDRIN KETONE	(ND)   ND	0.10	0.010   0.010
METHOXYCHLOR	(ND)   ND	1.0	0.10   0.10
MIREX	(ND)   ND	0.10	0.010   0.010
TOXAPHENE	(ND)   ND	2.0	0.50   0.50
CHLORDANE (TECHNICAL)	(ND)   ND	1.0	0.25   0.25

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	0.3326   (0.3416)	0.4000	83.1   (85.4)	60-140
DECACHLOROBIPHENYL	0.3071   (0.3349)	0.4000	76.8   (83.7)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPF027WB CPF027WL CPF027WC  
LAB FILE ID: RF26010A RF26011A RF26012A  
DATE EXTRACTED: 06/25/1211:45 06/25/1211:45 06/25/1211:45 DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1221:03 06/26/1221:24 06/26/1221:45 DATE RECEIVED: 06/25/12  
PREP. BATCH: CPF027W CPF027W CPF027W  
CALIB. REF: RF26005A RF26005A RF26005A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
alpha-BHC	(ND)   ND	0.200	(0.208)   0.205	(104)   102	0.200	(0.222)   0.219	(111)   110	(7)   7	30-150	30
gamma-BHC (Lindane)	(ND)   ND	0.200	(0.212)   0.211	(106)   105	0.200	(0.223)   0.222	(112)   111	(5)   5	40-130	30
beta-BHC	(ND)   ND	0.200	(0.229)   0.216	(114)   108	0.200	(0.235)   0.221	(118)   110	(3)   2	60-130	30
Heptachlor	(ND)   ND	0.200	(0.202)   0.198	(101)   99	0.200	(0.213)   0.209	(106)   104	(5)   5	30-140	30
delta-BHC	(ND)   ND	0.200	0.228   (0.232)	114   (116)	0.200	0.234   (0.238)	117   (119)	3   (3)	30-150	30
Aldrin	(ND)   ND	0.200	0.196   (0.207)	98   (104)	0.200	0.209   (0.218)	104   (109)	6   (5)	40-130	30
Heptachlor Epoxide	(ND)   ND	0.200	0.206   (0.212)	103   (106)	0.200	0.210   (0.218)	105   (109)	2   (3)	50-140	30
Endosulfan I	(ND)   ND	0.200	0.189   (0.207)	94   (104)	0.200	0.189   (0.212)	94   (106)	0   (2)	60-140	30
4,4'-DDE	(ND)   ND	0.200	0.213   (0.217)	106   (108)	0.200	0.218   (0.221)	109   (110)	2   (2)	50-140	30
Dieldrin	(ND)   ND	0.200	0.215   (0.216)	108   (108)	0.200	0.215   (0.220)	108   (110)	0   (2)	60-140	30
Endrin	(ND)   ND	0.200	0.217   (0.218)	108   (109)	0.200	(0.221)   0.221	(110)   110	(2)   1	50-140	30
4,4'-DDD	(ND)   ND	0.200	0.220   (0.230)	110   (115)	0.200	0.225   (0.227)	112   (114)	2   (1)	50-160	30
Endosulfan II	(ND)   ND	0.200	0.206   (0.213)	103   (106)	0.200	0.208   (0.211)	104   (105)	1   (1)	60-150	30
4,4'-DDT	(ND)   ND	0.200	(0.251)   0.233	(125)   116	0.200	(0.255)   0.239	(127)   119	(2)   3	60-140	30
Endrin aldehyde	(ND)   ND	0.200	0.211   (0.212)	105   (106)	0.200	0.213   (0.216)	106   (108)	1   (2)	60-160	30
Endosulfan Sulfate	(ND)   ND	0.200	0.214   (0.221)	107   (110)	0.200	0.218   (0.222)	109   (111)	2   (0)	70-140	30
Endrin Ketone	(ND)   ND	0.200	(0.213)   0.212	(106)   106	0.200	0.209   (0.214)	104   (107)	2   (1)	30-150	30
Methoxychlor	(ND)   ND	2.00	2.06   (2.22)	103   (111)	2.00	2.09   (2.24)	104   (112)	1   (1)	70-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Tetrachloro-m-xylene	0.4000	0.3189   (0.3363)	79.7   (84.1)	0.4000	0.3460   (0.3522)	86.5   (88.1)	60-140
Decachlorobiphenyl	0.4000	0.3235   (0.3514)	80.9   (87.9)	0.4000	0.3204   (0.3465)	80.1   (86.6)	20-120

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/25/12 11:45
Sample ID    : FB-062012                        Date Analyzed: 06/29/12 18:48
Lab Samp ID  : F146-01                          Dilution Factor: 0.99
Lab File ID  : SF29012A                         Matrix          : WATER
Ext Btch ID  : CPF027W                          % Moisture     : NA
Calib. Ref.  : SF29007A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	0.99	0.50   0.50
AROCLOR 1221	(ND)   ND	0.99	0.50   0.50
AROCLOR 1232	(ND)   ND	0.99	0.50   0.50
AROCLOR 1242	(ND)   ND	0.99	0.50   0.50
AROCLOR 1248	(ND)   ND	0.99	0.50   0.50
AROCLOR 1254	(ND)   ND	0.99	0.50   0.50
AROCLOR 1260	(ND)   ND	0.99	0.50   0.50
AROCLOR 1262	(ND)   ND	0.99	0.50   0.50
AROCLOR 1268	(ND)   ND	0.99	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	0.99   0.99
AROCLOR 5442	(ND)   ND	2.0	0.99   0.99
AROCLOR 5460	(ND)   ND	2.0	0.99   0.99

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.3873)   0.4807	0.3960	(97.8)   121*	45-120
TETRACHLORO-M-XYLENE	(0.2848)   0.3339	0.3960	(71.9)   84.3	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
Batch No.    : 12F146                           Date Extracted: 06/25/12 11:45
Sample ID    : MBLK1W                           Date Analyzed: 06/29/12 17:05
Lab Samp ID  : CPF027WB                        Dilution Factor: 1
Lab File ID  : SF29009A                       Matrix          : WATER
Ext Btch ID  : CPF027W                        % Moisture      : NA
Calib. Ref.  : SF29007A                       Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.3808)   0.4759	0.4000	(95.2)   119	45-120
TETRACHLORO-M-XYLENE	(0.3431)   0.3579	0.4000	(85.8)   89.5	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPF027WB 60F027WX 60F027WY  
LAB FILE ID: SF29009A SF29010A SF29011A  
DATE EXTRACTED: 06/25/1211:45 06/25/1211:45 06/25/1211:45 DATE COLLECTED: NA  
DATE ANALYZED: 06/29/1217:05 06/29/1217:40 06/29/1218:14 DATE RECEIVED: 06/25/12  
PREP. BATCH: CPF027W CPF027W CPF027W  
CALIB. REF: SF29007A SF29007A SF29007A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	(4.44)   4.69	(89)   94	5.00	(4.36)   4.70	(87)   94	(2)   0	50-130	30
Aroclor 1260	(ND)   ND	5.00	(4.56)   5.48	(91)   110	5.00	(4.63)   5.64	(93)   113	(2)   3	60-150	30
Aroclor 5460	(ND)   ND	2.50	(3.32)   3.55	(133)   142	2.50	(3.16)   3.42	(126)   137	(5)   4	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	(0.4041)   0.4901	(101)   123*	0.4000	(0.3934)   0.4884	(98.4)   122*	45-120
Tetrachloro-m-xylene	0.4000	(0.3831)   0.3918	(95.8)   98.0	0.4000	(0.3553)   0.3699	(88.8)   92.5	30-140

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/28/12 11:14
Sample ID    : SL-587-SA5C-SB-4.0-5.0          Date Analyzed: 06/30/12 01:39
Lab Samp ID  : F146-04                          Dilution Factor: 1
Lab File ID  : SF29024A                         Matrix          : SOIL
Ext Btch ID  : CPF034S                          % Moisture     : 12.5
Calib. Ref.  : SF29021A                         Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.36)   18.53	15.23	(94.3)   122*	45-120
TETRACHLORO-M-XYLENE	(12.09)   11.00	15.23	(79.4)   72.2	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/28/12 11:14
Sample ID    : SL-887-SA5C-SB-4.0-5.0          Date Analyzed: 06/30/12 02:13
Lab Samp ID  : F146-06                           Dilution Factor: 1
Lab File ID  : SF29025A                         Matrix          : SOIL
Ext Btch ID  : CPF034S                          % Moisture     : 12.1
Calib. Ref.  : SF29021A                        Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.23)   18.42	15.16	(93.9)   121*	45-120
TETRACHLORO-M-XYLENE	(12.37)   11.64	15.16	(81.6)   76.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 06/20/12
Project     : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.   : 12F146                           Date Extracted: 06/28/12 11:14
Sample ID   : SL-587-SA5C-SB-8.5-9.5          Date Analyzed: 06/30/12 02:48
Lab Samp ID: F146-08                           Dilution Factor: 1
Lab File ID: SF29026A                          Matrix          : SOIL
Ext Btch ID: CPF034S                            % Moisture     : 10.5
Calib. Ref.: SF29021A                          Instrument ID   : GCT008
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```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.50)   16.46	14.89	(83.9)   111	45-120
TETRACHLORO-M-XYLENE	(13.94)   12.27	14.89	(93.6)   82.4	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/28/12 11:14
Sample ID    : SL-604-SA5C-SB-4.0-5.0          Date Analyzed: 06/30/12 03:22
Lab Samp ID  : F146-09                           Dilution Factor: 1
Lab File ID  : SF29027A                          Matrix          : SOIL
Ext Btch ID  : CPF034S                            % Moisture     : 5.6
Calib. Ref.  : SF29021A                          Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.39)   18.58	14.12	(94.9)   132*	45-120
TETRACHLORO-M-XYLENE	(14.08)   11.80	14.12	(99.7)   83.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/28/12 11:14
Sample ID    : SL-628-SA5C-SB-11.5-12.5        Date Analyzed: 06/30/12 03:56
Lab Samp ID  : F146-11                          Dilution Factor: 1
Lab File ID  : SF29028A                        Matrix          : SOIL
Ext Btch ID  : CPF034S                          % Moisture     : 8.4
Calib. Ref.  : SF29021A                        Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.42)   18.22	14.55	(99.1)   125*	45-120
TETRACHLORO-M-XYLENE	(13.67)   12.33	14.55	(93.9)   84.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/28/12 11:14
Sample ID    : SL-630-SA5C-SB-8.0-9.0          Date Analyzed: 06/30/12 04:30
Lab Samp ID  : F146-13                          Dilution Factor: 1
Lab File ID  : SF29029A                         Matrix          : SOIL
Ext Btch ID  : CPF034S                           % Moisture     : 7.7
Calib. Ref.  : SF29021A                         Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(11.78)   16.10	14.44	(81.6)   112	45-120
TETRACHLORO-M-XYLENE	(13.00)   11.43	14.44	(90.0)   79.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/28/12
Batch No.  : 12F146                             Date Extracted: 06/28/12 11:14
Sample ID  : MBLK1S                             Date Analyzed: 06/29/12 20:31
Lab Samp ID: 60F034SB                           Dilution Factor: 1
Lab File ID: SF29015A                           Matrix          : SOIL
Ext Btch ID: CPF034S                             % Moisture     : NA
Calib. Ref.: SF29007A                           Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(13.51)   16.89	13.33	(101)   127*	45-120
TETRACHLORO-M-XYLENE	(12.15)   11.41	13.33	(91.1)   85.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F034SB 60F034SL 60F034SC  
LAB FILE ID: SF29015A SF29016A SF29017A  
DATE EXTRACTED: 06/28/1211:14 06/28/1211:14 06/28/1211:14 DATE COLLECTED: NA  
DATE ANALYZED: 06/29/1220:31 06/29/1221:05 06/29/1221:40 DATE RECEIVED: 06/28/12  
PREP. BATCH: CPF034S CPF034S CPF034S  
CALIB. REF: SF29007A SF29007A SF29007A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(138)   154	(83)   92	167	(143)   169	(86)   101	(4)   9	50-130	50
Aroclor 1260	(ND)   ND	167	(150)   180	(90)   108	167	(165)   189	(99)   113	(10)   5	60-150	50
Aroclor 5460	(ND)   ND	83.3	(100)   112	(120)   134	83.3	(103)   115	(3)   3	(0)   0	50-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(13.86)   16.93	(104)   127*	13.33	(14.45)   17.70	(108)   133*	45-120
Tetrachloro-m-xylene	13.33	(12.53)   11.60	(94.0)   87.0	13.33	(13.16)   12.25	(98.7)   91.9	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 12.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-587-SA5C-SB-4.0-5.0  
LAB SAMP ID: F146-04 F146-04M F146-04S  
LAB FILE ID: SF29024A SF29018A SF29019A  
DATE EXTRACTED: 06/28/1211:14 06/28/1211:14 06/28/1211:14 DATE COLLECTED: 06/20/12  
DATE ANALYZED: 06/30/1201:39 06/29/1222:14 06/29/1222:48 DATE RECEIVED: 06/20/12  
PREP. BATCH: CPF034S CPF034S CPF034S  
CALIB. REF: SF29021A SF29007A SF29007A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	191	(145)   183	(76)   96	191	(145)   174	(76)   91	(0)   5	20-160	50
Aroclor 1260	(ND)   ND	191	(172)   207	(90)   109	191	(170)   206	(89)   108	(1)   0	20-160	50
Aroclor 5460	(ND)   ND	95.2	(120)   127	(126)   133	95.2	(117)   125	(123)   131	(3)   2	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	15.23	(15.67)   19.77	(103)   130*	15.23	(15.31)   19.11	(100)   125*	45-120
Tetrachloro-m-xylene	15.23	(13.05)   12.23	(85.7)   80.3	15.23	(12.35)   11.85	(81.1)   77.8	10-160

METHOD 8151A  
HERBICIDES

```

=====
Client      : CDM                               Date Collected: 06/20/12
Project    : SSFL PHASE 3                       Date Received: 06/20/12
Batch No.  : 12F146                             Date Extracted: 06/26/12 18:12
Sample ID  : FB-062012                          Date Analyzed: 06/27/12 13:15
Lab Samp ID: F146-01                            Dilution Factor: 1
Lab File ID: WF27006A                          Matrix          : WATER
Ext Btch ID: HEF005W                            % Moisture     : NA
Calib. Ref.: WF27002A                          Instrument ID   : GCT016
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
2,4-D	(ND)   ND	0.80	0.20   0.20
2,4-DB	(ND)   ND	0.80	0.20   0.20
2,4,5-T	(ND)   ND	0.80	0.20   0.20
2,4,5-TP (SILVEX)	(ND)   ND	0.80	0.20   0.20
DALAPON	(ND)   ND	0.80	0.20   0.20
DICAMBA	(ND)   ND	0.80	0.20   0.20
DICHLOROPROP	(ND)   ND	0.80	0.20   0.20
DINOSEB	(ND)   ND	0.80	0.20   0.20
MCPA	(ND)   ND	100	20   20
MCPB	33J   (ND)	100	20   20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(10.94)   10.68	10.00	(109)   107	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F146                           Date Extracted: 06/26/12 18:12
Sample ID    : MBLK1W                           Date Analyzed: 06/27/12 12:10
Lab Samp ID  : HEF005WB                         Dilution Factor: 1
Lab File ID  : WF27003A                        Matrix          : WATER
Ext Btch ID  : HEF005W                          % Moisture     : NA
Calib. Ref.  : WF27002A                        Instrument ID   : GCT016
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	QC LIMIT
2,4-D	(ND)   ND	0.80	0.20   0.20	
2,4-DB	(ND)   ND	0.80	0.20   0.20	
2,4,5-T	(ND)   ND	0.80	0.20   0.20	
2,4,5-TP (SILVEX)	(ND)   ND	0.80	0.20   0.20	
DALAPON	(ND)   ND	0.80	0.20   0.20	
DICAMBA	(ND)   ND	0.80	0.20   0.20	
DICHLOROPROP	(ND)   ND	0.80	0.20   0.20	
DINOSEB	(ND)   ND	0.80	0.20   0.20	
MCPA	(ND)   ND	100	20   20	
MCPP	45J   (ND)	100	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(8.340)   8.197	10.00	(83.4)   82.0	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 8151A

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HEF005WB HEF005WL HEF005WC  
LAB FILE ID: WF27003A WF27004A WF27005A  
DATE EXTRACTED: 06/26/1218:12 06/26/1218:12 06/26/1218:12 DATE COLLECTED: NA  
DATE ANALYZED: 06/27/1212:10 06/27/1212:32 06/27/1212:53 DATE RECEIVED: 06/26/12  
PREP. BATCH: HEF005W HEF005W HEF005W  
CALIB. REF: WF27002A WF27002A WF27002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
2,4-D	(ND)   ND	1.00	(1.10)   1.05	(110)   105	1.00	(1.11)   1.07	(111)   107	(1)   2	40-130	30
2,4-DB	(ND)   ND	1.00	0.878   (1.20)	88   (120)	1.00	0.874   (1.25)	87   (125)	0   (4)	30-160	30
2,4,5-T	(ND)   ND	1.00	0.999   (1.05)	100   (105)	1.00	(1.01)   0.999	(101)   100	(1)   5	40-140	30
2,4,5-TP (Silvex)	(ND)   ND	1.00	1.08   (1.09)	108   (109)	1.00	(1.09)   1.09	(109)   109	(1)   0	60-140	30
Dalapon	(ND)   ND	1.00	0.620J   (0.925)	62   (92)	1.00	0.579J   (0.938)	58   (94)	7   (1)	30-130	30
Dicamba	(ND)   ND	1.00	1.08   (1.12)	108   (112)	1.00	1.09   (1.14)	109   (114)	1   (2)	50-130	30
Dichloroprop	(ND)   ND	1.00	(1.22)   1.21	(122)   121	1.00	(1.25)   1.22	(125)   122	(2)   1	70-150	30
Dinoseb	(ND)   ND	1.00	(0.686J)   0.585J	(69)   58	1.00	(0.656J)   0.564J	(66)   56	(4)   4	20-130	30
MCPA	(ND)   ND	50.0	47.3J   (57.9J)	95   (116)	50.0	48.2J   (56.9J)	96   (114)	2   (2)	30-150	30
MCPP	45J   (ND)	50.0	65.7J   (51.6J)	131   (103)	50.0	70.5J   (52.3J)	141   (105)	7   (1)	30-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
2,4-DCPAA	10.00	10.12   (10.34)	101   (103)	10.00	10.14   (10.35)	101   (103)	40-140

METHOD 8330A  
EXPLOSIVES

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/25/12 13:16
Sample ID    : FB-062012                        Date Analyzed: 06/26/12 22:34
Lab Samp ID  : F146-01                          Dilution Factor: 1
Lab File ID  : XF26022A                         Matrix          : WATER
Ext Btch ID  : EXP014W                           % Moisture     : NA
Calib. Ref.  : XF26014A                         Instrument ID   : T-081
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
HMX	ND	0.60	0.20
RDX	ND	0.60	0.20
1,3,5-TRINITROBENZENE	ND	0.60	0.20
1,3-DINITROBENZENE	ND	0.60	0.20
TETRYL	ND	0.60	0.20
NITROBENZENE	ND	0.60	0.20
2,4,6-TRINITROTOLUENE	ND	0.60	0.20
4-AMINO-2,6-DINITROTOLUENE	ND	0.60	0.20
2-AMINO-4,6-DINITROTOLUENE	ND	0.60	0.20
2,6-DINITROTOLUENE	ND	0.60	0.20
2,4-DINITROTOLUENE	ND	0.60	0.20
2-NITROTOLUENE	ND	0.60	0.20
3-NITROTOLUENE	ND	0.60	0.20
4-NITROTOLUENE	ND	0.60	0.20
2,4-DIAMINO-6-NITROTOLUENE	ND	2.0	1.0
2,6-DIAMINO-4-NITROTOLUENE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DINITROBENZENE	3.57	4.000	89.3	65-135

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8330A  
EXPLOSIVES

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
Batch No.    : 12F146                           Date Extracted: 06/25/12 13:16
Sample ID    : MBLK1W                           Date Analyzed: 06/26/12 20:02
Lab Samp ID  : EXF014WB                         Dilution Factor: 1
Lab File ID  : XF26018A                        Matrix          : WATER
Ext Btch ID  : EXF014W                          % Moisture     : NA
Calib. Ref.  : XF26014A                        Instrument ID   : T-081
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
HMX	ND	0.60	0.20
RDX	ND	0.60	0.20
1,3,5-TRINITROBENZENE	ND	0.60	0.20
1,3-DINITROBENZENE	ND	0.60	0.20
TETRYL	ND	0.60	0.20
NITROBENZENE	ND	0.60	0.20
2,4,6-TRINITROTOLUENE	ND	0.60	0.20
4-AMINO-2,6-DINITROTOLUENE	ND	0.60	0.20
2-AMINO-4,6-DINITROTOLUENE	ND	0.60	0.20
2,6-DINITROTOLUENE	ND	0.60	0.20
2,4-DINITROTOLUENE	ND	0.60	0.20
2-NITROTOLUENE	ND	0.60	0.20
3-NITROTOLUENE	ND	0.60	0.20
4-NITROTOLUENE	ND	0.60	0.20
2,4-DIAMINO-6-NITROTOLUENE	ND	2.0	1.0
2,6-DIAMINO-4-NITROTOLUENE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DINITROBENZENE	3.39	4.000	84.8	65-135

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 8330A

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: EXF014WB EXF014WL EXF014WC  
LAB FILE ID: XF26018A XF26019A XF26020A  
DATE EXTRACTED: 06/25/1213:16 06/25/1213:16 06/25/1213:16 DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1220:02 06/26/1220:40 06/26/1221:18 DATE RECEIVED: 06/25/12  
PREP. BATCH: EXF014W EXF014W EXF014W  
CALIB. REF: XF26014A XF26014A XF26014A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
HMX	ND	4.00	3.02	76	4.00	3.31	83	9	70-130	30
RDX	ND	4.00	2.97	74	4.00	3.16	79	6	60-130	30
1,3,5-Trinitrobenzene	ND	4.00	3.43	86	4.00	3.68	92	7	70-130	30
1,3-Dinitrobenzene	ND	4.00	3.13	78	4.00	3.35	84	7	70-130	30
Tetryl	ND	4.00	3.81	95	4.00	4.27	107	11	70-130	30
Nitrobenzene	ND	4.00	2.91	73	4.00	3.32	83	13	70-130	30
2,4,6-Trinitrotoluene	ND	4.00	3.35	84	4.00	3.56	89	6	70-130	30
4-Amino-2,6-Dinitrotoluene	ND	4.00	3.41	85	4.00	3.67	92	7	70-130	30
2-Amino-4,6-Dinitrotoluene	ND	4.00	3.36	84	4.00	3.62	90	7	70-130	30
2,6-Dinitrotoluene	ND	4.00	3.40	85	4.00	3.60	90	6	70-130	30
2,4-Dinitrotoluene	ND	4.00	3.60	90	4.00	3.97	99	10	70-130	30
2-Nitrotoluene	ND	4.00	3.42	86	4.00	3.69	92	8	70-130	30
3-Nitrotoluene	ND	4.00	3.39	85	4.00	3.52	88	4	70-130	30
4-Nitrotoluene	ND	4.00	3.13	78	4.00	3.53	88	12	70-130	30
2,4-Diamino-6-nitrotoluene	ND	4.00	1.65J	41	4.00	1.74J	43	5	20-130	30
2,6-Diamino-4-nitrotoluene	ND	4.00	1.40J	35	4.00	1.31J	33	7	20-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dinitrobenzene	4.00	3.62	91	4.00	3.85	96	65-135

METHOD 8332  
Nitroglycerin and PETN

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
Batch No.    : 12F146                           Date Extracted: 06/25/12 12:19
Sample ID    : FB-062012                        Date Analyzed: 06/27/12 15:56
Lab Samp ID  : F146-01                          Dilution Factor: 1
Lab File ID  : PF27011A                        Matrix          : WATER
Ext Btch ID  : EXF013W                          % Moisture     : NA
Calib. Ref.  : PF27006A                        Instrument ID   : T-017
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
NITROGLYCERIN	ND	250	120
PETN	ND	250	120

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	504	500.0	101	65-135

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD 8332  
Nitroglycerin and PETN

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/25/12
Batch No.    : 12F146                             Date Extracted: 06/25/12 12:19
Sample ID    : MBLK1W                             Date Analyzed: 06/27/12 15:03
Lab Samp ID  : EXF013WB                           Dilution Factor: 1
Lab File ID  : PF27007A                           Matrix          : WATER
Ext Btch ID  : EXF013W                             % Moisture     : NA
Calib. Ref.  : PF27006A                           Instrument ID   : T-017
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
NITROGLYCERIN	ND	250	120
PETN	ND	250	120

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DINITROBENZENE	503	500.0	101	65-135

RL: Reporting Limit

Note: All positive results are confirmed by Phenyl-Hexyl column

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: Method 8332

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: EXF013WB EXF013WL EXF013WC  
LAB FILE ID: PF27007A PF27008A PF27009A  
DATE EXTRACTED: 06/25/1212:19 06/25/1212:19 06/25/1212:19 DATE COLLECTED: NA  
DATE ANALYZED: 06/27/1215:03 06/27/1215:14 06/27/1215:28 DATE RECEIVED: 06/25/12  
PREP. BATCH: EXF013W EXF013W EXF013W  
CALIB. REF: PF27006A PF27006A PF27006A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Nitroglycerin	ND	1870	1730	92	1870	1520	81	13	50-150	30
PETN	ND	1870	1820	97	1870	1780	95	2	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dinitrobenzene	500	498	100	500	496	99	65-135

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
SDG NO.     : 12F146                           Date Extracted: 06/25/12 10:45
Sample ID   : FB-062012                        Date Analyzed: 06/25/12 21:25
Lab Samp ID : F146-01                          Dilution Factor: 1
Lab File ID : 98F11088                        Matrix          : WATER
Ext Btch ID : IMF045W                         % Moisture     : NA
Calib. Ref. : 98F11083                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	0.0271J	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00916J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	0.0438J	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.00112	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
SDG NO.     : 12F146                           Date Extracted: 06/25/12 10:45
Sample ID   : MBLK1W                           Date Analyzed: 06/25/12 21:11
Lab Samp ID : IMF045WB                         Dilution Factor: 1
Lab File ID : 98F11085                        Matrix          : WATER
Ext Btch ID : IMF045W                          % Moisture     : NA
Calib. Ref. : 98F11083                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F146  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMF045WB IMF045WL IMF045WC  
LAB FILE ID: 98F11085 98F11086 98F11087  
DATIME EXTRACTD: 06/25/1210:45 06/25/1210:45 06/25/1210:45 DATE COLLECTED: NA  
DATIME ANALYZD: 06/25/1221:11 06/25/1221:15 06/25/1221:20 DATE RECEIVED: 06/25/12  
PREP. BATCH: IMF045W IMF045W IMF045W  
CALIB. REF: 98F11083 98F11083 98F11083

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.55	102	2.50	2.58	103	1	80-120	20
Antimony	ND	0.0250	0.0250	100	0.0250	0.0253	101	1	80-120	20
Arsenic	ND	0.0250	0.0244	98	0.0250	0.0252	101	3	80-120	20
Barium	ND	0.0250	0.0253	101	0.0250	0.0255	102	1	80-120	20
Beryllium	ND	0.0250	0.0253	101	0.0250	0.0257	103	1	80-120	20
Boron	ND	0.0250	0.0257	103	0.0250	0.0261	104	2	80-120	20
Cadmium	ND	0.0250	0.0246	98	0.0250	0.0248	99	1	80-120	20
Calcium	ND	2.50	2.75	110	2.50	2.77	111	1	80-120	20
Chromium	ND	0.0250	0.0233	93	0.0250	0.0240	96	3	80-120	20
Cobalt	ND	0.0250	0.0242	97	0.0250	0.0245	98	1	80-120	20
Copper	ND	0.0250	0.0232	93	0.0250	0.0237	95	2	80-120	20
Iron	ND	2.50	2.64	105	2.50	2.65	106	0	80-120	20
Lead	ND	0.0250	0.0249	100	0.0250	0.0254	102	2	80-120	20
Magnesium	ND	2.50	2.52	101	2.50	2.55	102	1	80-120	20
Manganese	ND	0.0250	0.0245	98	0.0250	0.0249	100	2	80-120	20
Molybdenum	ND	0.0250	0.0242	97	0.0250	0.0244	98	1	80-120	20
Nickel	ND	0.0250	0.0231	92	0.0250	0.0235	94	2	80-120	20
Potassium	ND	2.50	2.71	108	2.50	2.75	110	1	80-120	20
Selenium	ND	0.0250	0.0244	98	0.0250	0.0246	98	1	80-120	20
Silver	ND	0.0250	0.0248	99	0.0250	0.0252	101	2	80-120	20
Sodium	ND	2.50	2.64	105	2.50	2.68	107	2	80-120	20
Strontium	ND	0.0250	0.0246	98	0.0250	0.0249	100	1	80-120	20
Thallium	ND	0.0250	0.0245	98	0.0250	0.0249	99	2	80-120	20
Tin	ND	0.0250	0.0252	101	0.0250	0.0254	102	1	80-120	20
Titanium	ND	0.0250	0.0246	98	0.0250	0.0250	100	2	80-120	20
Vanadium	ND	0.0250	0.0234	94	0.0250	0.0240	96	2	80-120	20
Zinc	ND	0.0500	0.0517	103	0.0500	0.0504	101	3	80-120	20
Lithium	ND	0.0250	0.0238	95	0.0250	0.0242	97	2	80-120	20
Phosphorus	ND	0.250	0.253	101	0.250	0.257	103	2	80-120	20
Zirconium	ND	0.0250	0.0258	103	0.0250	0.0264	106	2	80-120	20

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
SDG NO.     : 12F146                           Date Extracted: 06/25/12 11:30
Sample ID   : SL-587-SA5C-SB-4.0-5.0          Date Analyzed: 06/27/12 23:54
Lab Samp ID : F146-04                          Dilution Factor: 0.990
Lab File ID : 98F12105                         Matrix          : SOIL
Ext Btch ID : IMF046S                          % Moisture     : 12.5
Calib. Ref. : 98F12103                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13100	113	13.6
Antimony	0.216J	0.566	0.113
Arsenic	4.10	0.566	0.226
Barium	93.1	0.566	0.226
Beryllium	0.608	0.566	0.0566
Boron	ND	5.66	2.83
Cadmium	0.224J	0.566	0.0566
Calcium	2860	22.6	11.3
Chromium	19.6	0.566	0.226
Cobalt	6.15	0.566	0.0566
Copper	10.1	0.566	0.226
Iron	19000	113	11.3
Lead	7.11	0.566	0.113
Magnesium	4350	11.3	5.66
Manganese	242	0.566	0.283
Molybdenum	0.517J	0.566	0.0566
Nickel	12.9	0.566	0.226
Potassium	2890	113	33.9
Selenium	ND	0.566	0.226
Silver	ND	0.566	0.0566
Sodium	97.1J	113	56.6
Strontium	22.4	0.566	0.283
Thallium	0.261J	0.453	0.0566
Tin	ND	11.3	5.66
Titanium	745	1.13	0.566
Vanadium	34.4	0.566	0.0566
Zinc	50.0	5.66	1.70
Lithium	17.2	2.26	1.13
Phosphorus	230	13.6	6.79
Zirconium	ND	5.66	2.83

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
SDG NO.     : 12F146                           Date Extracted: 06/25/12 11:30
Sample ID   : SL-887-SA5C-SB-4.0-5.0          Date Analyzed: 06/28/12 00:03
Lab Samp ID : F146-06                           Dilution Factor: 0.966
Lab File ID : 98F12107                         Matrix          : SOIL
Ext Btch ID : IMF046S                          % Moisture     : 12.1
Calib. Ref. : 98F12103                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15200	110	13.2
Antimony	0.248J	0.549	0.110
Arsenic	5.89	0.549	0.220
Barium	131	0.549	0.220
Beryllium	0.672	0.549	0.0549
Boron	2.90J	5.49	2.75
Cadmium	0.266J	0.549	0.0549
Calcium	3310	22.0	11.0
Chromium	21.7	0.549	0.220
Cobalt	7.84	0.549	0.0549
Copper	10.5	0.549	0.220
Iron	23400	110	11.0
Lead	7.20	0.549	0.110
Magnesium	5030	11.0	5.49
Manganese	603	0.549	0.275
Molybdenum	0.919	0.549	0.0549
Nickel	15.4	0.549	0.220
Potassium	3200	110	33.0
Selenium	ND	0.549	0.220
Silver	ND	0.549	0.0549
Sodium	131	110	54.9
Strontium	25.4	0.549	0.275
Thallium	0.271J	0.440	0.0549
Tin	ND	11.0	5.49
Titanium	824	1.10	0.549
Vanadium	40.4	0.549	0.0549
Zinc	62.3	5.49	1.65
Lithium	20.0	2.20	1.10
Phosphorus	312	13.2	6.59
Zirconium	ND	5.49	2.75

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/20/12
Project     : SSFL PHASE 3                     Date Received: 06/20/12
SDG NO.    : 12F146                           Date Extracted: 06/25/12 11:30
Sample ID:  SL-587-SA5C-SB-8.5-9.5           Date Analyzed: 06/28/12 00:07
Lab Samp ID: F146-08                          Dilution Factor: 0.966
Lab File ID: 98F12108                         Matrix          : SOIL
Ext Btch ID: IMF046S                          % Moisture     : 10.5
Calib. Ref.: 98F12103                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12600	108	13.0
Antimony	0.195J	0.540	0.108
Arsenic	4.16	0.540	0.216
Barium	80.2	0.540	0.216
Beryllium	0.536J	0.540	0.0540
Boron	ND	5.40	2.70
Cadmium	0.164J	0.540	0.0540
Calcium	3190	21.6	10.8
Chromium	19.5	0.540	0.216
Cobalt	5.23	0.540	0.0540
Copper	7.73	0.540	0.216
Iron	18900	108	10.8
Lead	4.94	0.540	0.108
Magnesium	4540	10.8	5.40
Manganese	248	0.540	0.270
Molybdenum	1.37	0.540	0.0540
Nickel	10.6	0.540	0.216
Potassium	2170	108	32.4
Selenium	ND	0.540	0.216
Silver	ND	0.540	0.0540
Sodium	135	108	54.0
Strontium	20.6	0.540	0.270
Thallium	0.208J	0.432	0.0540
Tin	ND	10.8	5.40
Titanium	839	1.08	0.540
Vanadium	32.8	0.540	0.0540
Zinc	49.2	5.40	1.62
Lithium	20.0	2.16	1.08
Phosphorus	269	13.0	6.48
Zirconium	ND	5.40	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/20/12
Project      : SSFL PHASE 3                     Date Received: 06/20/12
SDG NO.     : 12F146                           Date Extracted: 06/25/12 11:30
Sample ID   : SL-604-SA5C-SB-4.0-5.0          Date Analyzed: 06/28/12 00:12
Lab Samp ID : F146-09                          Dilution Factor: 0.980
Lab File ID : 98F12109                        Matrix         : SOIL
Ext Btch ID : IMF046S                         % Moisture    : 5.6
Calib. Ref. : 98F12103                       Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12400	104	12.5
Antimony	0.181J	0.519	0.104
Arsenic	4.62	0.519	0.208
Barium	92.0	0.519	0.208
Beryllium	0.484J	0.519	0.0519
Boron	ND	5.19	2.60
Cadmium	0.168J	0.519	0.0519
Calcium	3330	20.8	10.4
Chromium	18.8	0.519	0.208
Cobalt	5.08	0.519	0.0519
Copper	7.75	0.519	0.208
Iron	20300	104	10.4
Lead	4.51	0.519	0.104
Magnesium	5380	10.4	5.19
Manganese	231	0.519	0.260
Molybdenum	0.350J	0.519	0.0519
Nickel	11.6	0.519	0.208
Potassium	1860	104	31.1
Selenium	ND	0.519	0.208
Silver	ND	0.519	0.0519
Sodium	199	104	51.9
Strontium	22.1	0.519	0.260
Thallium	0.218J	0.415	0.0519
Tin	ND	10.4	5.19
Titanium	929	1.04	0.519
Vanadium	34.9	0.519	0.0519
Zinc	52.5	5.19	1.56
Lithium	24.3	2.08	1.04
Phosphorus	322	12.5	6.23
Zirconium	ND	5.19	2.60

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/20/12
Project     : SSFL PHASE 3                     Date Received: 06/20/12
SDG NO.    : 12F146                           Date Extracted: 06/25/12 11:30
Sample ID: SL-628-SA5C-SB-11.5-12.5          Date Analyzed: 06/28/12 00:16
Lab Samp ID: F146-11                          Dilution Factor: 0.990
Lab File ID: 98F12110                        Matrix          : SOIL
Ext Btch ID: IMF046S                         % Moisture     : 8.4
Calib. Ref.: 98F12103                       Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13100	108	13.0
Antimony	0.206J	0.540	0.108
Arsenic	3.74	0.540	0.216
Barium	96.0	0.540	0.216
Beryllium	0.455J	0.540	0.0540
Boron	ND	5.40	2.70
Cadmium	0.174J	0.540	0.0540
Calcium	2870	21.6	10.8
Chromium	17.2	0.540	0.216
Cobalt	4.80	0.540	0.0540
Copper	8.75	0.540	0.216
Iron	19200	108	10.8
Lead	5.72	0.540	0.108
Magnesium	4470	10.8	5.40
Manganese	246	0.540	0.270
Molybdenum	0.932	0.540	0.0540
Nickel	8.98	0.540	0.216
Potassium	3550	108	32.4
Selenium	ND	0.540	0.216
Silver	ND	0.540	0.0540
Sodium	74.0J	108	54.0
Strontium	17.7	0.540	0.270
Thallium	0.238J	0.432	0.0540
Tin	ND	10.8	5.40
Titanium	966	1.08	0.540
Vanadium	31.4	0.540	0.0540
Zinc	58.3	5.40	1.62
Lithium	20.2	2.16	1.08
Phosphorus	437	13.0	6.48
Zirconium	ND	5.40	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/20/12
Project    : SSFL PHASE 3                     Date Received: 06/20/12
SDG NO.    : 12F146                           Date Extracted: 06/25/12 11:30
Sample ID: SL-630-SA5C-SB-8.0-9.0           Date Analyzed: 06/28/12 00:21
Lab Samp ID: F146-13                         Dilution Factor: 0.976
Lab File ID: 98F12111                        Matrix          : SOIL
Ext Btch ID: IMF046S                          % Moisture     : 7.7
Calib. Ref.: 98F12103                        Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11100	106	12.7
Antimony	0.165J	0.529	0.106
Arsenic	2.70	0.529	0.211
Barium	91.7	0.529	0.211
Beryllium	0.365J	0.529	0.0529
Boron	ND	5.29	2.64
Cadmium	0.158J	0.529	0.0529
Calcium	3830	21.1	10.6
Chromium	14.5	0.529	0.211
Cobalt	5.56	0.529	0.0529
Copper	8.44	0.529	0.211
Iron	17000	106	10.6
Lead	10.7	0.529	0.106
Magnesium	3940	10.6	5.29
Manganese	213	0.529	0.264
Molybdenum	0.773	0.529	0.0529
Nickel	7.99	0.529	0.211
Potassium	2850	106	31.7
Selenium	ND	0.529	0.211
Silver	ND	0.529	0.0529
Sodium	157	106	52.9
Strontium	35.0	0.529	0.264
Thallium	0.172J	0.423	0.0529
Tin	ND	10.6	5.29
Titanium	815	1.06	0.529
Vanadium	31.4	0.529	0.0529
Zinc	47.3	5.29	1.59
Lithium	12.4	2.11	1.06
Phosphorus	475	12.7	6.34
Zirconium	ND	5.29	2.64

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/25/12
SDG NO.    : 12F146                             Date Extracted: 06/25/12 11:30
Sample ID  : MBLK1S                             Date Analyzed: 06/27/12 21:10
Lab Samp ID: IMF046SB                           Dilution Factor: 1
Lab File ID: 98F12069                           Matrix          : SOIL
Ext Btch ID: IMF046S                             % Moisture      : NA
Calib. Ref.: 98F12067                           Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F146  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF046SB IMF046SL IMF046SC  
LAB FILE ID: 98F12069 98F12070 98F12071  
DATIME EXTRACTD: 06/25/1211:30 06/25/1211:30 06/25/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/27/1221:10 06/27/1221:15 06/27/1221:20 DATE RECEIVED: 06/25/12  
PREP. BATCH: IMF046S IMF046S IMF046S  
CALIB. REF: 98F12067 98F12067 98F12067

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2550	102	2500	2600	104	2	80-120	20
Antimony	ND	25.0	24.4	98	25.0	24.9	100	2	80-120	20
Arsenic	ND	25.0	23.5	94	25.0	24.0	96	2	80-120	20
Barium	ND	25.0	24.7	99	25.0	25.2	101	2	80-120	20
Beryllium	ND	25.0	24.2	97	25.0	24.9	100	3	80-120	20
Boron	ND	25.0	24.6	98	25.0	25.4	101	3	80-120	20
Cadmium	ND	25.0	23.7	95	25.0	24.1	96	2	80-120	20
Calcium	ND	2500	2590	104	2500	2660	107	3	80-120	20
Chromium	ND	25.0	23.9	96	25.0	24.1	96	0	80-120	20
Cobalt	ND	25.0	23.3	93	25.0	23.9	96	2	80-120	20
Copper	ND	25.0	23.2	93	25.0	23.2	93	0	80-120	20
Iron	ND	2500	2530	101	2500	2600	104	2	80-120	20
Lead	ND	25.0	23.4	94	25.0	24.1	96	3	80-120	20
Magnesium	ND	2500	2540	102	2500	2560	102	1	80-120	20
Manganese	ND	25.0	23.8	95	25.0	24.4	97	2	80-120	20
Molybdenum	ND	25.0	23.9	96	25.0	24.4	97	2	80-120	20
Nickel	ND	25.0	23.1	92	25.0	23.2	93	0	80-120	20
Potassium	ND	2500	2720	109	2500	2740	109	1	80-120	20
Selenium	ND	25.0	23.2	93	25.0	23.6	94	2	80-120	20
Silver	ND	25.0	24.0	96	25.0	24.4	98	2	80-120	20
Sodium	ND	2500	2500	100	2500	2620	105	5	80-120	20
Strontium	ND	25.0	24.7	99	25.0	25.0	100	1	80-120	20
Thallium	ND	25.0	23.9	95	25.0	24.3	97	2	80-120	20
Tin	ND	25.0	26.7	107	25.0	27.1	108	2	80-120	20
Titanium	ND	25.0	24.6	99	25.0	25.1	100	2	80-120	20
Vanadium	ND	25.0	24.2	97	25.0	24.4	98	1	80-120	20
Zinc	ND	50.0	45.2	90	50.0	46.4	93	2	80-120	20
Lithium	ND	25.0	24.7	99	25.0	25.4	102	3	80-120	20
Phosphorus	ND	250	236	94	250	237	95	0	80-120	20
Zirconium	ND	25.0	24.9	99	25.0	25.4	101	2	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F146  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 12.5  
DILTN FACTR: 0.990 0.952 0.957  
SAMPLE ID: SL-587-SA5C-SB-4.0-5.0  
CONTROL NO.: F146-04 F146-04M F146-04S  
LAB FILE ID: 98F12105 98F12099 98F12100  
DATIME EXTRACTD: 06/25/1211:30 06/25/1211:30 06/25/1211:30 DATE COLLECTED: 06/20/12  
DATIME ANALYZD: 06/27/1223:54 06/27/1223:26 06/27/1223:31 DATE RECEIVED: 06/20/12  
PREP. BATCH: IMF046S IMF046S IMF046S  
CALIB. REF: 98F12103 98F12091 98F12091

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	13100	2720	18400	193*	2730	18700	204*	2	75-125	20
Antimony	0.216J	27.2	22.7	83	27.3	22.9	83	1	75-125	20
Arsenic	4.10	27.2	29.5	93	27.3	29.1	91	1	75-125	20
Barium	93.1	27.2	134	149*	27.3	130	134*	3	75-125	20
Beryllium	0.608	27.2	26.7	96	27.3	25.5	91	5	75-125	20
Boron	ND	27.2	28.5	105	27.3	26.7	98	6	75-125	20
Cadmium	0.224J	27.2	26.3	96	27.3	25.5	92	3	75-125	20
Calcium	2860	2720	5710	105	2730	5640	102	1	75-125	20
Chromium	19.6	27.2	44.4	91	27.3	44.6	92	1	75-125	20
Cobalt	6.15	27.2	29.9	87	27.3	30.0	87	1	75-125	20
Copper	10.1	27.2	32.3	81	27.3	31.9	80	1	75-125	20
Iron	19000	2720	23400	160*	2730	23200	152*	1	75-125	20
Lead	7.11	27.2	31.9	91	27.3	32.1	91	1	75-125	20
Magnesium	4350	2720	7610	120	2730	7530	116	1	75-125	20
Manganese	242	27.2	320	284*	27.3	336	344*	5	75-125	20
Molybdenum	0.517J	27.2	26.6	96	27.3	26.2	94	1	75-125	20
Nickel	12.9	27.2	36.1	85	27.3	35.9	84	1	75-125	20
Potassium	2890	2720	5910	111	2730	5760	105	2	75-125	20
Selenium	ND	27.2	24.9	92	27.3	24.2	88	3	75-125	20
Silver	ND	27.2	26.2	96	27.3	26.0	95	1	75-125	20
Sodium	97.1J	2720	2580	91	2730	2560	90	1	75-125	20
Strontium	22.4	27.2	50.3	102	27.3	49.2	98	2	75-125	20
Thallium	0.261J	27.2	26.0	95	27.3	25.8	93	1	75-125	20
Tin	ND	27.2	30.5	112	27.3	29.8	109	2	75-125	20
Titanium	745	27.2	889	529*	27.3	880	493*	1	75-125	20
Vanadium	34.4	27.2	63.4	107	27.3	63.2	105	0	75-125	20
Zinc	50.0	54.4	101	94	54.7	102	94	0	75-125	20
Lithium	17.2	27.2	49.0	117	27.3	47.5	111	3	75-125	20
Phosphorus	230	272	529	110	273	527	109	0	75-125	20
Zirconium	ND	27.2	18.3	67*	27.3	19.2	70*	5	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F146  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 12.5  
DILTN FACTR: 0.990 0.990  
SAMPLE ID: SL-587-SA5C-SB-4.0-5.0  
CONTROL NO.: F146-04 F146-04A  
LAB FILE ID: 98F12105 98F12101  
DATIME EXTRACTD: 06/25/1211:30 06/25/1211:30 DATE COLLECTED: 06/20/12  
DATIME ANALYZD: 06/27/1223:54 06/27/1223:35 DATE RECEIVED: 06/20/12  
PREP. BATCH: IMF046S IMF046S  
CALIB. REF: 98F12103 98F12091

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	13100	2830	16400	115	75-125
Antimony	0.216J	28.3	27.4	96	75-125
Arsenic	4.10	28.3	29.7	91	75-125
Barium	93.1	28.3	122	103	75-125
Beryllium	0.608	28.3	26.2	91	75-125
Boron	ND	28.3	28.6	101	75-125
Cadmium	0.224J	28.3	26.5	93	75-125
Calcium	2860	2830	5690	100	75-125
Chromium	19.6	28.3	44.0	86	75-125
Cobalt	6.15	28.3	29.8	83	75-125
Copper	10.1	28.3	33.1	81	75-125
Iron	19000	2830	21300	80	75-125
Lead	7.11	28.3	32.6	90	75-125
Magnesium	4350	2830	7280	104	75-125
Manganese	242	28.3	258	57*	75-125
Molybdenum	0.517J	28.3	27.7	96	75-125
Nickel	12.9	28.3	36.0	82	75-125
Potassium	2890	2830	6020	111	75-125
Selenium	ND	28.3	25.8	91	75-125
Silver	ND	28.3	26.5	94	75-125
Sodium	97.1J	2830	2840	97	75-125
Strontium	22.4	28.3	48.7	93	75-125
Thallium	0.261J	28.3	26.5	93	75-125
Tin	ND	28.3	30.4	107	75-125
Titanium	745	28.3	757	42*	75-125
Vanadium	34.4	28.3	59.5	89	75-125
Zinc	50.0	56.6	98.9	86	75-125
Lithium	17.2	28.3	45.6	101	75-125
Phosphorus	230	283	533	107	75-125
Zirconium	ND	28.3	27.0	95	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F146  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 12.5  
 DILUTION FACTOR: 0.990 4.95  
 SAMPLE ID: SL-587-SA5C-SB SL-587-SA5C-SB  
 EMAX SAMP ID: F146-04 F146-04J  
 LAB FILE ID: 98F12105 98F12106  
 DATE EXTRACTED: 06/25/1211:30 06/25/1211:30 DATE COLLECTED: 06/20/12  
 DATE ANALYZED: 06/27/1223:54 06/27/1223:58 DATE RECEIVED: 06/20/12  
 PREP. BATCH: IMF046S IMF046S  
 CALIB. REF: 98F12103 98F12103

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	13100	13700	4	10
Antimony	0.216J	ND	NA	10
Arsenic	4.10	4.28	4	10
Barium	93.1	88.5	5	10
Beryllium	0.608	0.631J	NA	10
Boron	ND	ND	0	10
Cadmium	0.224J	ND	NA	10
Calcium	2860	3040	6	10
Chromium	19.6	20.3	4	10
Cobalt	6.15	6.36	3	10
Copper	10.1	10.7	6	10
Iron	19000	20200	6	10
Lead	7.11	7.03	1	10
Magnesium	4350	4490	3	10
Manganese	242	251	4	10
Molybdenum	0.517J	0.502J	NA	10
Nickel	12.9	13.7	6	10
Potassium	2890	2940	2	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	97.1J	ND	NA	10
Strontium	22.4	21.3	5	10
Thallium	0.261J	ND	NA	10
Tin	ND	ND	0	10
Titanium	745	734	1	10
Vanadium	34.4	35.7	4	10
Zinc	50.0	51.8	4	10
Lithium	17.2	16.8	2	10
Phosphorus	230	251	9	10
Zirconium	ND	ND	0	10

METHOD 7470A  
 MERCURY BY COLD VAPOR

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F146  
 =====

Matrix : WATER  
 Instrument ID : TI047  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGF030WB	ND	1	NA	0.000500	0.000100	06/26/1211:31	06/25/1215:30	M47F020010	M47F020008	HGF030W	NA	06/25/12
LCS1W	HGF030WL	0.00521	1	NA	0.000500	0.000100	06/26/1211:33	06/25/1215:30	M47F020011	M47F020008	HGF030W	NA	06/25/12
LCD1W	HGF030WC	0.00518	1	NA	0.000500	0.000100	06/26/1211:35	06/25/1215:30	M47F020012	M47F020008	HGF030W	NA	06/25/12
FB-062012	F146-01	ND	1	NA	0.000500	0.000100	06/26/1211:57	06/25/1215:30	M47F020022	M47F020020	HGF030W	06/20/12	06/20/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F146  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGF030WB HGF030WL HGF030WC  
LAB FILE ID: M47F020010 M47F020011 M47F020012  
DATIME EXTRCTD: 06/25/1215:30 06/25/1215:30 06/25/1215:30 DATE COLLECTED: NA  
DATIME ANALYZD: 06/26/1211:31 06/26/1211:33 06/26/1211:35 DATE RECEIVED: 06/25/12  
PREP. BATCH: HGF030W HGF030W HGF030W  
CALIB. REF: M47F020008 M47F020008 M47F020008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00521	104	.005	.00518	104	1	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F146

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGF036SB	ND	1	NA	0.100	0.0500	06/28/1216:06	06/28/1213:00	M47F024027	M47F024020	HGF036S	NA	06/28/12
LCS1S	HGF036SL	0.842	1	NA	0.100	0.0500	06/28/1216:08	06/28/1213:00	M47F024028	M47F024020	HGF036S	NA	06/28/12
LCD1S	HGF036SC	0.835	1	NA	0.100	0.0500	06/28/1216:10	06/28/1213:00	M47F024029	M47F024020	HGF036S	NA	06/28/12
SL-587-SA5C-SB-4.0-5.0AS	F146-04A	0.947	0.998	12.5	0.114	0.0570	06/28/1216:13	06/28/1213:00	M47F024030	M47F024020	HGF036S	06/20/12	06/20/12
SL-587-SA5C-SB-4.0-5.0	F146-04	ND	0.998	12.5	0.114	0.0570	06/28/1216:14	06/28/1213:00	M47F024031	M47F024020	HGF036S	06/20/12	06/20/12
SL-587-SA5C-SB-4.0-5.0DL	F146-04J	ND	4.99	12.5	0.570	0.285	06/28/1216:21	06/28/1213:00	M47F024034	M47F024032	HGF036S	06/20/12	06/20/12
SL-587-SA5C-SB-4.0-5.0MS	F146-04M	0.983	0.998	12.5	0.114	0.0570	06/28/1216:23	06/28/1213:00	M47F024035	M47F024032	HGF036S	06/20/12	06/20/12
SL-587-SA5C-SB-4.0-5.0MSDF	F146-04S	0.976	0.995	12.5	0.114	0.0569	06/28/1216:25	06/28/1213:00	M47F024036	M47F024032	HGF036S	06/20/12	06/20/12
SL-887-SA5C-SB-4.0-5.0	F146-06	ND	0.987	12.1	0.112	0.0561	06/28/1216:27	06/28/1213:00	M47F024037	M47F024032	HGF036S	06/20/12	06/20/12
SL-587-SA5C-SB-8.5-9.5	F146-08	ND	1.00	10.5	0.112	0.0559	06/28/1216:29	06/28/1213:00	M47F024038	M47F024032	HGF036S	06/20/12	06/20/12
SL-604-SA5C-SB-4.0-5.0	F146-09	ND	1.00	5.6	0.106	0.0530	06/28/1216:31	06/28/1213:00	M47F024039	M47F024032	HGF036S	06/20/12	06/20/12
SL-628-SA5C-SB-11.5-12.5	F146-11	ND	0.992	8.4	0.108	0.0541	06/28/1216:33	06/28/1213:00	M47F024040	M47F024032	HGF036S	06/20/12	06/20/12
SL-630-SA5C-SB-8.0-9.0	F146-13	ND	1.00	7.7	0.108	0.0542	06/28/1216:36	06/28/1213:00	M47F024041	M47F024032	HGF036S	06/20/12	06/20/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F146  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF036SB HGF036SL HGF036SC  
LAB FILE ID: M47F024027 M47F024028 M47F024029  
DATIME EXTRCTD: 06/28/1213:00 06/28/1213:00 06/28/1213:00 DATE COLLECTED: NA  
DATIME ANALYZD: 06/28/1216:06 06/28/1216:08 06/28/1216:10 DATE RECEIVED: 06/28/12  
PREP. BATCH: HGF036S HGF036S HGF036S  
CALIB. REF: M47F024020 M47F024020 M47F024020

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.842	101	.833	.835	100	1	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F146  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 12.5  
DILTN FACTR: 0.998 0.998 0.995  
SAMPLE ID: SL-587-SA5C-SB-4.0-5.0  
CONTROL NO.: F146-04 F146-04M F146-04S  
LAB FILE ID: M47F024031 M47F024035 M47F024036  
DATIME EXTRCTD: 06/28/1213:00 06/28/1213:00 06/28/1213:00 DATE COLLECTED: 06/20/12  
DATIME ANALYZD: 06/28/1216:14 06/28/1216:23 06/28/1216:25 DATE RECEIVED: 06/20/12  
PREP. BATCH: HGF036S HGF036S HGF036S  
CALIB. REF: M47F024020 M47F024032 M47F024032

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.95	.983	103	.947	.976	103	0	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F146  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 12.5  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: SL-587-SA5C-SB-4.0-5.0  
CONTROL NO.: F146-04 F146-04A  
LAB FILE ID: M47F024031 M47F024030  
DATIME EXTRCTD: 06/28/1213:00 06/28/1213:00 DATE COLLECTED: 06/20/12  
DATIME ANALYZD: 06/28/1216:14 06/28/1216:13 DATE RECEIVED: 06/20/12  
PREP. BATCH: HGF036S HGF036S  
CALIB. REF: M47F024020 M47F024020

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.95	.947	100	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F146  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 12.5  
 DILUTION FACTOR: 0.998 4.99  
 SAMPLE ID: SL-587-SA5C-SB-4.0- SL-587-SA5C-SB-4.0-  
 EMAX SAMP ID: F146-04 F146-04J  
 LAB FILE ID: M47F024031 M47F024034  
 DATE EXTRACTED: 06/28/1213:00 06/28/1213:00 DATE COLLECTED: 06/20/12  
 DATE ANALYZED: 06/28/1216:14 06/28/1216:21 DATE RECEIVED: 06/20/12  
 PREP. BATCH: HGF036S HGF036S  
 CALIB. REF: M47F024020 M47F024032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F146  
 =====

Matrix : WATER  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLF003WB	ND	1	NA	0.200	0.100	06/26/1215:23	NA	MF26020	MF26015	PLF003W	NA	NA
LCS1W	PLF003WL	1.09	1	NA	0.200	0.100	06/26/1215:38	NA	MF26021	MF26015	PLF003W	NA	NA
LCD1W	PLF003WC	1.15	1	NA	0.200	0.100	06/26/1215:52	NA	MF26022	MF26015	PLF003W	NA	NA
FB-062012	F146-01	ND	1	NA	0.200	0.100	06/26/1216:20	NA	MF26024	MF26015	PLF003W	06/20/1215:00	06/20/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLF003WB PLF003WL PLF003WC  
LAB FILE ID: MF26020 MF26021 MF26022  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1215:23 06/26/1215:38 06/26/1215:52 DATE RECEIVED: NA  
PREP. BATCH: PLF003W PLF003W PLF003W  
CALIB. REF: MF26015 MF26015 MF26015

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	1.09	109	1.00	1.15	115	5	85-115	20

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F146  
 =====

Matrix : SOIL  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLF003SB	ND	1	NA	5.00	2.50	06/26/1211:11	06/25/1215:34	MF26005	MF26004	PLF003S	NA	06/25/12
LCS1S	PLF003SL	28.8	1	NA	5.00	2.50	06/26/1211:25	06/25/1215:34	MF26006	MF26004	PLF003S	NA	06/25/12
LCD1S	PLF003SC	27.7	1	NA	5.00	2.50	06/26/1211:40	06/25/1215:34	MF26007	MF26004	PLF003S	NA	06/25/12
SL-604-SA5C-SB-4.0-5.0	F146-09	ND	1	5.6	5.30	2.65	06/26/1211:59	06/25/1215:34	MF26008	MF26004	PLF003S	06/20/1215:10	06/20/12
SL-628-SA5C-SB-11.5-12.5	F146-11	ND	1	8.4	5.46	2.73	06/26/1212:13	06/25/1215:34	MF26009	MF26004	PLF003S	06/20/1211:00	06/20/12
SL-630-SA5C-SB-8.0-9.0	F146-13	ND	1	7.7	5.42	2.71	06/26/1212:27	06/25/1215:34	MF26010	MF26004	PLF003S	06/20/1211:55	06/20/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLF003SB PLF003SL PLF003SC  
LAB FILE ID: MF26005 MF26006 MF26007  
DATE EXTRACTED: 06/25/1215:34 06/25/1215:34 06/25/1215:34 DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1211:11 06/26/1211:25 06/26/1211:40 DATE RECEIVED: 06/25/12  
PREP. BATCH: PLF003S PLF003S PLF003S  
CALIB. REF: MF26004 MF26004 MF26004

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	28.8	115	25.0	27.7	111	4	85-115	20

METHOD 7199  
 HEXAVALENT CHROMIUM

Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F146

Matrix : WATER  
 Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF	MOIST	RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCF021WB	ND	1	NA	0.200	0.100	06/21/1211:31	NA	IF21003	IF21001	HCF021W	NA	NA
MBLK1W	HCF021WQ	ND	1	NA	0.200	0.100	06/21/1211:42	NA	IF21004	IF21001	HCF021W	NA	NA
FB-062012	F146-01	ND	1	NA	0.200	0.100	06/21/1211:52	NA	IF21005	IF21001	HCF021W	06/20/1215:00	06/20/12
FB-062012	F146-01R	ND	1	NA	0.200	0.100	06/21/1212:03	NA	IF21006	IF21001	HCF021W	06/20/1215:00	06/20/12
LCS1W	HCF021WL	2.00	1	NA	0.200	0.100	06/21/1212:13	NA	IF21007	IF21001	HCF021W	NA	NA
LCS1W	HCF021WX	2.02	1	NA	0.200	0.100	06/21/1212:23	NA	IF21008	IF21001	HCF021W	NA	NA
LCD1W	HCF021WC	1.96	1	NA	0.200	0.100	06/21/1213:12	NA	IF21010	IF21001	HCF021W	NA	NA
LCD1W	HCF021WY	1.99	1	NA	0.200	0.100	06/21/1213:22	NA	IF21011	IF21001	HCF021W	NA	NA

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCF021WB HCF021WL HCF021WC  
LAB FILE ID: IF21003 IF21007 IF21010  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/21/1211:31 06/21/1212:13 06/21/1213:12 DATE RECEIVED: NA  
PREP. BATCH: HCF021W HCF021W HCF021W  
CALIB. REF: IF21001 IF21001 IF21001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	2.00	100	2.00	1.96	98	2	80-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F146  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCF021WQ HCF021WX HCF021WY  
LAB FILE ID: IF21004 IF21008 IF21011  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/21/1211:42 06/21/1212:23 06/21/1213:22 DATE RECEIVED: NA  
PREP. BATCH: HCF021W HCF021W HCF021W  
CALIB. REF: IF21001 IF21001 IF21001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	2.02	101	2.00	1.99	100	1	80-120	20

METHOD 9040C  
PH

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=====
Client      : CDM
Project     : SSFL PHASE 3
Batch No.  : 12F146
Matrix      : WATER
Instrument ID : 53
=====

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SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
FB-062012	F146-01	5.87	1	NA	NA	NA	06/20/1219:07	NA	12PHF021W01	12PHF021	PHF021W	06/20/1215:00	06/20/12
FB-062012DUP	F146-01D	5.84	1	NA	NA	NA	06/20/1219:08	NA	12PHF021W02	12PHF021	PHF021W	06/20/1215:00	06/20/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.: 12F146                      DATE RECEIVED: 06/20/12  
SAMPLE ID: FB-062012DUP              DATE EXTRACTED: NA  
CONTROL NO.: F146-01D                DATE ANALYZED: 06/20/12 19:08

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	5.87	5.84	0.03	+/- 0.1

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F146  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST (pH Unit)	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-587-SA5C-SB-4.0-5.0	F146-04	7.95	1 12.5	NA	NA	06/21/1214:32	06/21/1213:22	12PHF022S01	12PHF022	PHF022S	06/20/1214:05	06/20/12
SL-587-SA5C-SB-4.0-5.0DUP	F146-04D	7.95	1 12.5	NA	NA	06/21/1214:33	06/21/1213:22	12PHF022S02	12PHF022	PHF022S	06/20/1214:05	06/20/12
SL-887-SA5C-SB-4.0-5.0	F146-06	8.00	1 12.1	NA	NA	06/21/1214:34	06/21/1213:22	12PHF022S03	12PHF022	PHF022S	06/20/1214:15	06/20/12
SL-587-SA5C-SB-8.5-9.5	F146-08	8.14	1 10.5	NA	NA	06/21/1214:36	06/21/1213:22	12PHF022S04	12PHF022	PHF022S	06/20/1214:10	06/20/12
SL-604-SA5C-SB-4.0-5.0	F146-09	8.20	1 5.6	NA	NA	06/21/1214:38	06/21/1213:22	12PHF022S05	12PHF022	PHF022S	06/20/1215:10	06/20/12
SL-628-SA5C-SB-11.5-12.5	F146-11	7.28	1 8.4	NA	NA	06/21/1214:40	06/21/1213:22	12PHF022S06	12PHF022	PHF022S	06/20/1211:00	06/20/12
SL-630-SA5C-SB-8.0-9.0	F146-13	8.49	1 7.7	NA	NA	06/21/1214:41	06/21/1213:22	12PHF022S07	12PHF022	PHF022S	06/20/1211:55	06/20/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: 12.5

=====

BATCH NO.:	12F146	DATE RECEIVED:	06/20/12
SAMPLE ID:	SL-587-SA5C-SB-4.0-5.0	DATE EXTRACTED:	06/21/12 13:22
CONTROL NO.:	F146-04	DATE ANALYZED:	06/21/12 14:32

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	QC LIMIT (pH Unit)
pH	7.95	7.95	NA	+/- 0.1

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/26/12 19:59
Sample ID    : EB2-062112                       Date Analyzed: 06/26/12 19:59
Lab Samp ID  : F162-01                          Dilution Factor: 1
Lab File ID  : RFV357                           Matrix          : WATER
Ext Btch ID  : VO01F18                          % Moisture     : NA
Calib. Ref.  : RBV366                           Instrument ID   : T-001
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	0.91J	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.5	10.00	105	80-120
4-BROMOFLUOROBENZENE	10.0	10.00	100	86-115
TOLUENE-D8	9.47	10.00	94.7	88-110
DIBROMOFLUOROMETHANE	10.1	10.00	101	86-118

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/26/12 20:27
Sample ID    : TB-062112                        Date Analyzed: 06/26/12 20:27
Lab Samp ID  : F162-03                          Dilution Factor: 1
Lab File ID  : RFV358                           Matrix          : WATER
Ext Btch ID  : VO01F18                          % Moisture     : NA
Calib. Ref.  : RBV366                           Instrument ID   : T-001
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	0.51J	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	10.2	10.00	102	80-120
4-BROMOFLUOROBENZENE	9.94	10.00	99.4	86-115
TOLUENE-D8	9.46	10.00	94.6	88-110
DIBROMOFLUOROMETHANE	9.98	10.00	99.8	86-118

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F162                           Date Extracted: 06/26/12 11:09
Sample ID    : MBLK1W                            Date Analyzed: 06/26/12 11:09
Lab Samp ID  : VO01F18B                         Dilution Factor: 1
Lab File ID  : RFV339                            Matrix          : WATER
Ext Btch ID  : VO01F18                           % Moisture     : NA
Calib. Ref.  : RBV366                            Instrument ID   : T-001
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
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1, 2-DICHLOROETHANE-D4	9.21	10.00	92.1	80-120
4-BROMOFLUOROBENZENE	9.67	10.00	96.7	86-115
TOLUENE-D8	9.51	10.00	95.1	88-110
DIBROMOFLUOROMETHANE	9.71	10.00	97.1	86-118

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VO01F18B VO01F18L VO01F18C  
LAB FILE ID: RFV339 RFV337 RFV338  
DATE EXTRACTED: 06/26/1211:09 06/26/1210:11 06/26/1210:39 DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1211:09 06/26/1210:11 06/26/1210:39 DATE RECEIVED: 06/26/12  
PREP. BATCH: VO01F18 VO01F18 VO01F18  
CALIB. REF: RBV366 RBV366 RBV366

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	10.0	10.4	104	10.0	9.90	99	5	70-130	30
1,1,1-Trichloroethane	ND	10.0	10.1	101	10.0	9.69	97	4	70-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	10.4	104	10.0	9.65	96	7	70-130	30
1,1,2-Trichloroethane	ND	10.0	10.6	106	10.0	9.96	100	7	70-130	30
1,1-Dichloroethane	ND	10.0	9.70	97	10.0	9.05	91	7	70-130	30
1,1-Dichloroethene	ND	10.0	8.77	88	10.0	8.09	81	8	60-130	30
1,1-Dichloropropene	ND	10.0	10.4	104	10.0	9.82	98	5	70-140	30
1,2,3-Trichlorobenzene	ND	10.0	9.53	95	10.0	9.32	93	2	60-130	30
1,2,3-Trichloropropane	ND	10.0	11.3	113	10.0	10.3	103	9	70-140	30
1,2,4-Trichlorobenzene	ND	10.0	10.1	101	10.0	9.81	98	3	60-140	30
1,2,4-Trimethylbenzene	ND	10.0	11.2	112	10.0	10.6	106	6	70-130	30
1,2-Dibromo-3-chloropropane	ND	10.0	9.18	92	10.0	8.74	87	5	60-130	30
1,2-Dichlorobenzene	ND	10.0	10.4	104	10.0	9.77	98	6	70-130	30
1,2-Dichloroethane	ND	10.0	10.8	108	10.0	10.1	101	7	70-130	30
1,2-Dichloropropane	ND	10.0	10.1	101	10.0	9.47	95	7	70-130	30
1,2-Dibromoethane (EDB)	ND	10.0	10.2	102	10.0	9.73	97	5	70-140	30
1,3,5-Trimethylbenzene	ND	10.0	11.2	112	10.0	10.7	107	5	70-130	30
1,3-Dichlorobenzene	ND	10.0	10.3	103	10.0	9.76	98	5	70-130	30
1,3-Dichloropropane	ND	10.0	9.69	97	10.0	9.12	91	6	70-130	30
1,4-Dichlorobenzene	ND	10.0	10.2	102	10.0	9.55	95	7	70-130	30
2,2-Dichloropropane	ND	10.0	9.35	94	10.0	8.80	88	6	50-140	30
2-Chlorotoluene	ND	10.0	10.5	105	10.0	9.95	100	5	70-130	30
4-Chlorotoluene	ND	10.0	10.8	108	10.0	10.3	103	5	70-130	30
Benzene	ND	10.0	9.63	96	10.0	9.11	91	6	70-130	30
Bromobenzene	ND	10.0	10.7	107	10.0	10.1	101	6	70-130	30
Bromochloromethane	ND	10.0	9.93	99	10.0	9.14	91	8	70-130	30
Bromodichloromethane	ND	10.0	9.84	98	10.0	9.31	93	6	70-130	30
Bromoform	ND	10.0	10.8	108	10.0	10.1	101	7	60-140	30
Bromomethane	ND	10.0	9.16	92	10.0	8.66	87	6	50-140	30
Carbon Tetrachloride	ND	10.0	10.7	107	10.0	10.2	102	5	70-130	30
Chlorobenzene	ND	10.0	10.7	107	10.0	10.1	101	6	70-120	30
Chloroethane	ND	10.0	9.26	93	10.0	8.93	89	4	70-140	30
Chloroform	ND	10.0	10.2	102	10.0	9.52	95	7	70-130	30
Chloromethane	ND	10.0	7.81	78	10.0	7.24	72	8	60-130	30
cis-1,2-Dichloroethene	ND	10.0	8.94	89	10.0	8.35	84	7	70-130	30
cis-1,3-Dichloropropene	ND	10.0	9.69	97	10.0	9.12	91	6	70-130	30
Dibromochloromethane	ND	10.0	10.3	103	10.0	9.57	96	7	70-130	30
Dibromomethane	ND	10.0	10.8	108	10.0	10.2	102	6	70-140	30
Dichlorodifluoromethane	ND	10.0	9.61	96	10.0	9.05	91	6	50-140	30
Ethylbenzene	ND	10.0	10.4	104	10.0	9.91	99	5	70-130	30
Hexachlorobutadiene	ND	10.0	11.5	115	10.0	10.9	109	5	60-140	30
Isopropyl Benzene	ND	10.0	12.2	122	10.0	11.8	118	4	70-150	30
m,p-Xylene	ND	20.0	20.5	103	20.0	19.2	96	6	70-130	30
Methyl tert-butyl Ether (MTBE)	ND	10.0	9.21	92	10.0	8.47	85	8	70-140	30
Methylene Chloride	ND	10.0	9.17	92	10.0	8.61	86	6	70-130	30
n-Butylbenzene	ND	10.0	10.9	109	10.0	10.5	105	4	60-130	30
n-Propylbenzene	ND	10.0	10.6	106	10.0	10.1	101	4	70-140	30
o-Xylene	ND	10.0	10.1	101	10.0	9.64	96	4	70-130	30

p-Isopropyltoluene	ND	10.0	11.5	115	10.0	11.0	110	4	70-140	30
Sec-Butylbenzene	ND	10.0	11.4	114	10.0	10.7	107	6	70-130	30
Styrene	ND	10.0	10.6	106	10.0	10.0	100	5	70-130	30
Tert-Butylbenzene	ND	10.0	10.5	105	10.0	10.0	100	5	70-130	30
Tetrachloroethene	ND	10.0	10.1	101	10.0	9.64	96	5	70-130	30
Toluene	ND	10.0	10.0	100	10.0	9.64	96	4	70-130	30
Trans-1,2-Dichloroethene	ND	10.0	8.80	88	10.0	8.10	81	8	70-130	30
Trans-1,3-Dichloropropene	ND	10.0	9.66	97	10.0	9.15	91	5	70-140	30
Trichloroethene	ND	10.0	10.2	102	10.0	9.65	96	5	70-130	30
Trichlorofluoromethane	ND	10.0	11.7	117	10.0	11.0	110	6	70-140	30
Vinyl Chloride	ND	10.0	8.68	87	10.0	8.25	83	5	60-150	30
Acetone	ND	50.0	49.2	98	50.0	45.1	90	9	50-150	30
2-Butanone (MEK)	ND	50.0	52.9	106	50.0	48.8	98	8	60-140	30
2-Hexanone	ND	50.0	51.4	103	50.0	48.3	97	6	70-140	30
4-Methyl-2-Pentanone (MIBK)	ND	50.0	53.1	106	50.0	50.2	100	6	60-140	30
Freon113	ND	10.0	10.2	102	10.0	9.50	95	7	70-140	30
2-Chloroethyl Vinyl Ether	ND	10.0	9.28	93	10.0	8.89	89	4	30-160	30
2-Chloro-1,1,1-trifluoroethane	ND	10.0	11.0	110	10.0	10.7	107	3	50-150	30
Chlorotrifluoroethylene	ND	10.0	9.95	99	10.0	9.34	93	6	50-150	30
1-Chlorohexane	ND	10.0	10.3	103	10.0	9.67	97	6	50-150	30
Carbon Disulfide	ND	10.0	9.15	91	10.0	8.63	86	6	40-150	30
Ethyl tertiary butyl Ether (ETBE)	ND	10.0	8.97	90	10.0	8.42	84	6	40-160	30
Iodomethane	ND	10.0	9.93	99	10.0	9.42	94	5	40-150	30
Tertiary Amyl Methyl Ether (TAME)	ND	10.0	9.14	91	10.0	8.45	84	8	50-150	30
Tertiary butyl Alcohol	ND	50.0	51.5	103	50.0	46.2	92	11	20-160	30
Vinyl Acetate	ND	10.0	9.43	94	10.0	7.59	76	22	10-160	30
Acrolein	ND	50.0	65.5	131	50.0	62.7	125	4	30-160	30
Acrylonitrile	ND	50.0	47.6	95	50.0	46.0	92	3	50-150	30
Diisopropyl Ether	ND	10.0	9.99	100	10.0	9.22	92	8	50-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	10.0	9.67	97	10.0	9.46	95	80-120
4-Bromofluorobenzene	10.0	8.88	89	10.0	9.08	91	86-115
Toluene-d8	10.0	8.97	90	10.0	9.03	90	88-110
Dibromofluoromethane	10.0	9.78	98	10.0	9.62	96	86-118

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/25/12 12:13
Sample ID    : SL-594-SA5C-SB-9.0              Date Analyzed: 06/25/12 12:13
Lab Samp ID  : F162-19                          Dilution Factor: 0.86
Lab File ID  : RFB396                           Matrix          : SOIL
Ext Btch ID  : VO03F22                          % Moisture     : 15.5
Calib. Ref.  : RFB141                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,1-TRICHLOROETHANE	ND	5.1	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.1	1.0
1,1,2-TRICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHANE	ND	5.1	1.0
1,1-DICHLOROETHENE	ND	5.1	1.0
1,1-DICHLOROPROPENE	ND	5.1	1.0
1,2,3-TRICHLOROBENZENE	ND	5.1	2.0
1,2,3-TRICHLOROPROPANE	ND	5.1	2.0
1,2,4-TRICHLOROBENZENE	ND	5.1	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.1	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.1	2.0
1,2-DICHLOROBENZENE	ND	5.1	1.0
1,2-DICHLOROETHANE	ND	5.1	1.0
1,2-DICHLOROPROPANE	ND	5.1	1.0
1,2-DIBROMOETHANE (EDB)	ND	5.1	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.1	1.0
1,3-DICHLOROBENZENE	ND	5.1	1.0
1,3-DICHLOROPROPANE	ND	5.1	1.0
1,4-DICHLOROBENZENE	ND	5.1	1.0
2,2-DICHLOROPROPANE	ND	5.1	2.0
2-CHLOROTOLUENE	ND	5.1	1.0
4-CHLOROTOLUENE	ND	5.1	1.0
BENZENE	ND	5.1	1.0
BROMOBENZENE	ND	5.1	1.0
BROMOCHLOROMETHANE	ND	5.1	1.0
BROMODICHLOROMETHANE	ND	5.1	1.0
BROMOFORM	ND	5.1	2.0
BROMOMETHANE	ND	5.1	2.0
CARBON TETRACHLORIDE	ND	5.1	1.0
CHLOROBENZENE	ND	5.1	1.0
CHLOROETHANE	ND	5.1	2.0
CHLOROFORM	ND	5.1	1.0
CHLOROMETHANE	ND	5.1	2.0
CIS-1,2-DICHLOROETHENE	ND	5.1	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.1	1.0
DIBROMOCHLOROMETHANE	ND	5.1	1.0
DIBROMOMETHANE	ND	5.1	1.0
DICHLORODIFLUOROMETHANE	ND	5.1	2.0
ETHYLBENZENE	ND	5.1	1.0
HEXACHLOROBUTADIENE	ND	5.1	2.0
ISOPROPYL BENZENE	ND	5.1	1.0
M,P-XYLENE	ND	5.1	2.0
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.1	1.0
METHYLENE CHLORIDE	ND	5.1	2.0
N-BUTYLBENZENE	ND	5.1	1.0
N-PROPYLBENZENE	ND	5.1	1.0
O-XYLENE	ND	5.1	1.0
P-ISOPROPYLTOLUENE	ND	5.1	1.0
SEC-BUTYLBENZENE	ND	5.1	1.0
STYRENE	ND	5.1	1.0
TERT-BUTYLBENZENE	ND	5.1	1.0
TETRACHLOROETHENE	ND	5.1	1.0
TOLUENE	ND	5.1	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.1	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.1	1.0
TRICHLOROETHENE	ND	5.1	1.0
TRICHLOROFLUOROMETHANE	ND	5.1	2.0
VINYL CHLORIDE	ND	5.1	2.0
ACETONE	7.9J	10	5.1
2-BUTANONE (MEK)	ND	10	5.1
2-HEXANONE	ND	10	5.1
4-METHYL-2-PENTANONE (MIBK)	ND	10	5.1
FREON113	ND	5.1	2.0
2-CHLOROETHYL VINYL ETHER	ND	5.1	2.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.1	2.0
CHLOROTRIFLUOROETHYLENE	ND	5.1	2.0
1-CHLOROHEXANE	ND	5.1	1.0
CARBON DISULFIDE	ND	5.1	2.0
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.1	1.0
IODOMETHANE	ND	5.1	2.0
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.1	1.0
TERTIARY BUTYL ALCOHOL	ND	20	10
VINYL ACETATE	ND	5.1	2.0
ACROLEIN	ND	10	5.1
ACRYLONITRILE	ND	10	5.1
DIISOPROPYL ETHER	ND	10	5.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	49.0	50.89	96.3	80-120
4-BROMOFLUOROBENZENE	54.8	50.89	108	74-121
TOLUENE-D8	53.7	50.89	105	81-117
DIBROMOFLUOROMETHANE	49.9	50.89	98.1	80-120

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/25/12 12:40
Sample ID    : SL-594-SA5C-SB-6.0              Date Analyzed: 06/25/12 12:40
Lab Samp ID  : F162-20                          Dilution Factor: 0.79
Lab File ID  : RFB397                           Matrix          : SOIL
Ext Btch ID  : VO03F22                          % Moisture     : 13.1
Calib. Ref.  : RFB141                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	4.5	0.91
1,1,1-TRICHLOROETHANE	ND	4.5	0.91
1,1,2,2-TETRACHLOROETHANE	ND	4.5	0.91
1,1,2-TRICHLOROETHANE	ND	4.5	0.91
1,1-DICHLOROETHANE	ND	4.5	0.91
1,1-DICHLOROETHENE	ND	4.5	0.91
1,1-DICHLOROPROPENE	ND	4.5	0.91
1,2,3-TRICHLOROBENZENE	ND	4.5	1.8
1,2,3-TRICHLOROPROPANE	ND	4.5	1.8
1,2,4-TRICHLOROBENZENE	ND	4.5	1.8
1,2,4-TRIMETHYLBENZENE	ND	4.5	0.91
1,2-DIBROMO-3-CHLOROPROPANE	ND	4.5	1.8
1,2-DICHLOROBENZENE	ND	4.5	0.91
1,2-DICHLOROETHANE	ND	4.5	0.91
1,2-DICHLOROPROPANE	ND	4.5	0.91
1,2-DIBROMOETHANE (EDB)	ND	4.5	0.91
1,3,5-TRIMETHYLBENZENE	ND	4.5	0.91
1,3-DICHLOROBENZENE	ND	4.5	0.91
1,3-DICHLOROPROPANE	ND	4.5	0.91
1,4-DICHLOROBENZENE	ND	4.5	0.91
2,2-DICHLOROPROPANE	ND	4.5	1.8
2-CHLOROTOLUENE	ND	4.5	0.91
4-CHLOROTOLUENE	ND	4.5	0.91
BENZENE	ND	4.5	0.91
BROMOBENZENE	ND	4.5	0.91
BROMOCHLOROMETHANE	ND	4.5	0.91
BROMODICHLOROMETHANE	ND	4.5	0.91
BROMOFORM	ND	4.5	1.8
BROMOMETHANE	ND	4.5	1.8
CARBON TETRACHLORIDE	ND	4.5	0.91
CHLOROBENZENE	ND	4.5	0.91
CHLOROETHANE	ND	4.5	1.8
CHLOROFORM	ND	4.5	0.91
CHLOROMETHANE	ND	4.5	1.8
CIS-1,2-DICHLOROETHENE	ND	4.5	0.91
CIS-1,3-DICHLOROPROPENE	ND	4.5	0.91
DIBROMOCHLOROMETHANE	ND	4.5	0.91
DIBROMOMETHANE	ND	4.5	0.91
DICHLORODIFLUOROMETHANE	ND	4.5	1.8
ETHYLBENZENE	ND	4.5	0.91
HEXACHLOROBUTADIENE	ND	4.5	1.8
ISOPROPYL BENZENE	ND	4.5	0.91
M,P-XYLENE	ND	4.5	1.8
METHYL TERT-BUTYL ETHER (MTBE)	ND	4.5	0.91
METHYLENE CHLORIDE	ND	4.5	1.8
N-BUTYLBENZENE	ND	4.5	0.91
N-PROPYLBENZENE	ND	4.5	0.91
O-XYLENE	ND	4.5	0.91
P-ISOPROPYLTOLUENE	ND	4.5	0.91
SEC-BUTYLBENZENE	ND	4.5	0.91
STYRENE	ND	4.5	0.91
TERT-BUTYLBENZENE	ND	4.5	0.91
TETRACHLOROETHENE	ND	4.5	0.91
TOLUENE	ND	4.5	0.91
TRANS-1,2-DICHLOROETHENE	ND	4.5	0.91
TRANS-1,3-DICHLOROPROPENE	ND	4.5	0.91
TRICHLOROETHENE	ND	4.5	0.91
TRICHLOROFLUOROMETHANE	ND	4.5	1.8
VINYL CHLORIDE	ND	4.5	1.8
ACETONE	12	9.1	4.5
2-BUTANONE (MEK)	ND	9.1	4.5
2-HEXANONE	ND	9.1	4.5
4-METHYL-2-PENTANONE (MIBK)	ND	9.1	4.5
FREON113	ND	4.5	1.8
2-CHLOROETHYL VINYL ETHER	ND	4.5	1.8
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	4.5	1.8
CHLOROTRIFLUOROETHYLENE	ND	4.5	1.8
1-CHLOROHEXANE	ND	4.5	0.91
CARBON DISULFIDE	ND	4.5	1.8
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	4.5	0.91
IODOMETHANE	ND	4.5	1.8
TERTIARY AMYL METHYL ETHER (TAME)	ND	4.5	0.91
TERTIARY BUTYL ALCOHOL	ND	18	9.1
VINYL ACETATE	ND	4.5	1.8
ACROLEIN	ND	9.1	4.5
ACRYLONITRILE	ND	9.1	4.5
DIISOPROPYL ETHER	ND	9.1	4.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	43.2	45.45	95.1	80-120
4-BROMOFLUOROBENZENE	51.0	45.45	112	74-121
TOLUENE-D8	48.9	45.45	108	81-117
DIBROMOFLUOROMETHANE	44.0	45.45	96.9	80-120

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
Batch No.    : 12F162                           Date Extracted: 06/25/12 09:54
Sample ID    : MBLK1S                            Date Analyzed: 06/25/12 09:54
Lab Samp ID  : VO03F22B                         Dilution Factor: 1
Lab File ID  : RFB393                           Matrix          : SOIL
Ext Btch ID  : VO03F22                          % Moisture     : NA
Calib. Ref.  : RFB141                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,2-DIBROMOETHANE (EDB)	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-CHLOROTOLUENE	ND	5.0	1.0
4-CHLOROTOLUENE	ND	5.0	1.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DIBROMOMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
HEXACHLOROBUTADIENE	ND	5.0	2.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENE	ND	5.0	2.0
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.0	1.0
METHYLENE CHLORIDE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	5.0
FREON113	ND	5.0	2.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	2.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.0	2.0
CHLOROTRIFLUOROETHYLENE	ND	5.0	2.0
1-CHLOROHEXANE	ND	5.0	1.0
CARBON DISULFIDE	ND	5.0	2.0
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.0	1.0
IODOMETHANE	ND	5.0	2.0
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.0	1.0
TERTIARY BUTYL ALCOHOL	ND	20	10
VINYL ACETATE	ND	5.0	2.0
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	47.4	50.00	94.8	80-120
4-BROMOFLUOROBENZENE	52.4	50.00	105	74-121
TOLUENE-D8	52.6	50.00	105	81-117
DIBROMOFLUOROMETHANE	48.9	50.00	97.7	80-120

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
Batch No.    : 12F162                           Date Extracted: 06/25/12 11:11
Sample ID    : MBLK2S                           Date Analyzed: 06/25/12 11:11
Lab Samp ID  : VPF034SB                         Dilution Factor: 1
Lab File ID  : RFB394                           Matrix          : SOIL
Ext Btch ID  : VO03F22                          % Moisture     : NA
Calib. Ref.  : RFB141                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,2-DIBROMOETHANE (EDB)	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-CHLOROTOLUENE	ND	5.0	1.0
4-CHLOROTOLUENE	ND	5.0	1.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DIBROMOMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
HEXACHLOROBUTADIENE	ND	5.0	2.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENE	ND	5.0	2.0
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.0	1.0
METHYLENE CHLORIDE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	5.0
FREON113	ND	5.0	2.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	2.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.0	2.0
CHLOROTRIFLUOROETHYLENE	ND	5.0	2.0
1-CHLOROHEXANE	ND	5.0	1.0
CARBON DISULFIDE	ND	5.0	2.0
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.0	1.0
IODOMETHANE	ND	5.0	2.0
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.0	1.0
TERTIARY BUTYL ALCOHOL	ND	20	10
VINYL ACETATE	ND	5.0	2.0
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1, 2-DICHLOROETHANE-D4	48.4	50.00	96.7	80-120
4-BROMOFLUOROBENZENE	52.1	50.00	104	74-121
TOLUENE-D8	50.6	50.00	101	81-117
DIBROMOFLUOROMETHANE	49.3	50.00	98.6	80-120

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 5035/8260B

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: VO03F22B VO03F22L VO03F22C  
LAB FILE ID: RFB393 RFB391 RFB392  
DATE EXTRACTED: 06/25/1209:54 06/25/1208:47 06/25/1209:20 DATE COLLECTED: NA  
DATE ANALYZED: 06/25/1209:54 06/25/1208:47 06/25/1209:20 DATE RECEIVED: 06/25/12  
PREP. BATCH: VO03F22 VO03F22 VO03F22  
CALIB. REF: RFB141 RFB141 RFB141

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	50.0	51.9	104	50.0	53.1	106	2	70-130	50
1,1,1-Trichloroethane	ND	50.0	50.7	101	50.0	50.9	102	0	60-130	50
1,1,2,2-Tetrachloroethane	ND	50.0	48.9	98	50.0	52.0	104	6	70-150	50
1,1,2-Trichloroethane	ND	50.0	50.3	101	50.0	52.9	106	5	70-140	50
1,1-Dichloroethane	ND	50.0	51.2	102	50.0	52.4	105	2	70-140	50
1,1-Dichloroethene	ND	50.0	49.8	100	50.0	51.0	102	2	60-130	50
1,1-Dichloropropene	ND	50.0	53.6	107	50.0	53.5	107	0	70-130	50
1,2,3-Trichlorobenzene	ND	50.0	50.1	100	50.0	50.6	101	1	60-150	50
1,2,3-Trichloropropane	ND	50.0	46.5	93	50.0	50.7	101	9	60-150	50
1,2,4-Trichlorobenzene	ND	50.0	54.5	109	50.0	52.9	106	3	60-140	50
1,2,4-Trimethylbenzene	ND	50.0	52.8	106	50.0	51.7	103	2	70-130	50
1,2-Dibromo-3-chloropropane	ND	50.0	47.0	94	50.0	52.5	105	11	50-150	50
1,2-Dichlorobenzene	ND	50.0	53.3	107	50.0	53.4	107	0	70-130	50
1,2-Dichloroethane	ND	50.0	46.1	92	50.0	48.5	97	5	60-140	50
1,2-Dichloropropane	ND	50.0	52.6	105	50.0	54.0	108	3	70-130	50
1,2-Dibromoethane (EDB)	ND	50.0	49.4	99	50.0	52.3	105	6	50-150	50
1,3,5-Trimethylbenzene	ND	50.0	53.0	106	50.0	51.5	103	3	70-130	50
1,3-Dichlorobenzene	ND	50.0	54.7	109	50.0	53.4	107	2	70-130	50
1,3-Dichloropropane	ND	50.0	50.7	101	50.0	53.2	106	5	70-140	50
1,4-Dichlorobenzene	ND	50.0	54.6	109	50.0	53.7	107	2	70-130	50
2,2-Dichloropropane	ND	50.0	51.6	103	50.0	51.6	103	0	40-140	50
2-Chlorotoluene	ND	50.0	52.5	105	50.0	51.3	103	2	70-130	50
4-Chlorotoluene	ND	50.0	53.2	106	50.0	51.6	103	3	70-130	50
Benzene	ND	50.0	51.8	104	50.0	52.6	105	1	70-130	50
Bromobenzene	ND	50.0	51.8	104	50.0	51.5	103	1	70-130	50
Bromochloromethane	ND	50.0	50.6	101	50.0	52.8	106	4	60-150	50
Bromodichloromethane	ND	50.0	50.8	102	50.0	52.1	104	3	60-130	50
Bromoform	ND	50.0	49.3	99	50.0	51.8	104	5	60-130	50
Bromomethane	ND	50.0	46.2	92	50.0	41.6	83	10	40-160	50
Carbon Tetrachloride	ND	50.0	49.3	99	50.0	49.5	99	0	50-130	50
Chlorobenzene	ND	50.0	52.2	104	50.0	52.7	105	1	70-130	50
Chloroethane	ND	50.0	43.9	88	50.0	39.4	79	11	60-150	50
Chloroform	ND	50.0	49.9	100	50.0	51.1	102	2	70-130	50
Chloromethane	ND	50.0	44.4	89	50.0	41.7	83	6	50-150	50
cis-1,2-Dichloroethene	ND	50.0	52.0	104	50.0	53.3	107	3	70-130	50
cis-1,3-Dichloropropene	ND	50.0	51.9	104	50.0	53.4	107	3	60-130	50
Dibromochloromethane	ND	50.0	51.5	103	50.0	53.3	107	3	70-130	50
Dibromomethane	ND	50.0	49.2	98	50.0	51.9	104	5	70-130	50
Dichlorodifluoromethane	ND	50.0	47.1	94	50.0	43.5	87	8	50-130	50
Ethylbenzene	ND	50.0	52.9	106	50.0	53.5	107	1	70-130	50
Hexachlorobutadiene	ND	50.0	53.7	107	50.0	51.3	103	4	50-140	50
Isopropyl Benzene	ND	50.0	52.8	106	50.0	51.9	104	2	70-140	50
m,p-Xylene	ND	100	103	103	100	102	102	0	70-140	50
Methyl tert-butyl Ether (MTBE)	ND	50.0	46.4	93	50.0	50.8	102	9	60-150	50
Methylene Chloride	ND	50.0	51.0	102	50.0	52.8	106	4	70-130	50
n-Butylbenzene	ND	50.0	56.7	113	50.0	54.4	109	4	50-150	50
n-Propylbenzene	ND	50.0	53.9	108	50.0	52.8	106	2	70-130	50
o-Xylene	ND	50.0	52.8	106	50.0	53.4	107	1	70-130	50

p-Isopropyltoluene	ND	50.0	54.5	109	50.0	52.2	104	4	60-140	50
Sec-Butylbenzene	ND	50.0	52.9	106	50.0	51.6	103	2	70-130	50
Styrene	ND	50.0	54.2	108	50.0	54.6	109	1	60-140	50
Tert-Butylbenzene	ND	50.0	53.9	108	50.0	52.9	106	2	70-130	50
Tetrachloroethene	ND	50.0	53.7	107	50.0	52.5	105	2	70-130	50
Toluene	ND	50.0	52.6	105	50.0	53.1	106	1	70-130	50
Trans-1,2-Dichloroethene	ND	50.0	51.1	102	50.0	51.9	104	2	70-130	50
Trans-1,3-Dichloropropene	ND	50.0	51.0	102	50.0	52.1	104	2	60-140	50
Trichloroethene	ND	50.0	52.0	104	50.0	52.3	105	1	70-130	50
Trichlorofluoromethane	ND	50.0	42.4	85	50.0	39.2	78	8	70-140	50
Vinyl Chloride	ND	50.0	44.3	89	50.0	41.0	82	8	60-150	50
Acetone	ND	250	219	88	250	251	101	14	40-160	50
2-Butanone (MEK)	ND	250	222	89	250	253	101	13	50-160	50
2-Hexanone	ND	250	229	92	250	257	103	11	60-160	50
4-Methyl-2-Pentanone (MIBK)	ND	250	223	89	250	249	99	11	70-160	50
Freon113	ND	50.0	53.9	108	50.0	53.5	107	1	50-140	50
2-Chloroethyl Vinyl Ether	ND	50.0	43.7	87	50.0	47.2	94	8	50-150	50
2-Chloro-1,1,1-trifluoroethane	ND	50.0	49.3	99	50.0	46.7	93	5	50-150	50
Chlorotrifluoroethylene	ND	50.0	53.8	108	50.0	48.4	97	11	50-150	50
1-Chlorohexane	ND	50.0	54.9	110	50.0	53.8	108	2	60-130	50
Carbon Disulfide	ND	50.0	44.8	90	50.0	44.8	90	0	40-140	50
Ethyl tertiary butyl Ether (ETBE)	ND	50.0	48.7	97	50.0	51.0	102	4	40-160	50
Iodomethane	ND	50.0	52.7	105	50.0	53.9	108	2	40-150	50
Tertiary Amyl Methyl Ether (TAME)	ND	50.0	48.6	97	50.0	50.6	101	4	50-150	50
Tertiary butyl Alcohol	ND	250	197	79	250	228	91	15	50-150	50
Vinyl Acetate	ND	50.0	42.1	84	50.0	41.8	84	1	10-160	50
Acrolein	ND	250	217	87	250	242	97	11	45-165	50
Acrylonitrile	ND	250	229	91	250	255	102	11	50-150	50
Diisopropyl Ether	ND	50.0	51.2	102	50.0	52.9	106	3	50-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	50.0	48.8	98	50.0	51.0	102	80-120
4-Bromofluorobenzene	50.0	58.6	117	50.0	58.4	117	74-121
Toluene-d8	50.0	58.6	117	50.0	58.7	117	81-117
Dibromofluoromethane	50.0	52.9	106	50.0	53.3	107	80-120

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

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Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/27/12 13:20
Sample ID    : EB2-062112                       Date Analyzed: 06/27/12 13:20
Lab Samp ID  : F162-01                           Dilution Factor: 1
Lab File ID  : RFY339                            Matrix          : WATER
Ext Btch ID  : VOF5F21                           % Moisture      : NA
Calib. Ref.  : RFY081                            Instrument ID   : TOF5
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	4.15	5.000	82.9	50-150

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```
=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/27/12 13:47
Sample ID    : TB-062112                        Date Analyzed: 06/27/12 13:47
Lab Samp ID  : F162-03                          Dilution Factor: 1
Lab File ID  : RFY340                           Matrix          : WATER
Ext Btch ID  : VOF5F21                          % Moisture     : NA
Calib. Ref.  : RFY081                           Instrument ID   : TOF5
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
-----	-----	-----	-----	
1,4-DIOXANE	ND	2.0	1.0	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	4.18	5.000	83.6	50-150

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/27/12
Batch No.    : 12F162                             Date Extracted: 06/27/12 12:54
Sample ID    : MBLK1W                             Date Analyzed: 06/27/12 12:54
Lab Samp ID  : VOF5F21B                           Dilution Factor: 1
Lab File ID  : RFY338                             Matrix          : WATER
Ext Btch ID  : VOF5F21                             % Moisture     : NA
Calib. Ref.  : RFY081                             Instrument ID   : TOF5
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	4.08	5.000	81.5	50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: 5030B/8260B SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VOF5F21B VOF5F21L VOF5F21C  
LAB FILE ID: RFY338 RFY335 RFY336  
DATE EXTRACTED: 06/27/1212:54 06/27/1211:36 06/27/1212:02 DATE COLLECTED: NA  
DATE ANALYZED: 06/27/1212:54 06/27/1211:36 06/27/1212:02 DATE RECEIVED: 06/27/12  
PREP. BATCH: VOF5F21 VOF5F21 VOF5F21  
CALIB. REF: RFY081 RFY081 RFY081

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,4-Dioxane	ND	50.0	46.2	92	50.0	46.3	93	0	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	5.00	4.43	89	5.00	4.02	80	50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```
=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/22/12 16:13
Sample ID    : SL-594-SA5C-SB-9.0              Date Analyzed: 06/22/12 16:13
Lab Samp ID  : F162-19                          Dilution Factor: 0.91
Lab File ID  : RFY280                           Matrix          : SOIL
Ext Btch ID  : VOF5F18                          % Moisture     : 15.5
Calib. Ref.  : RFY069                           Instrument ID   : TOF5
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
1,4-DIOXANE	ND	11	5.4
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY
-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	21.1	21.54	97.8

QC LIMIT  
50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/22/12 16:39
Sample ID    : SL-594-SA5C-SB-6.0              Date Analyzed: 06/22/12 16:39
Lab Samp ID  : F162-20                         Dilution Factor: 0.81
Lab File ID  : RFY281                          Matrix          : SOIL
Ext Btch ID  : VOF5F18                        % Moisture     : 13.1
Calib. Ref.  : RFY069                          Instrument ID   : TOF5
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,4-DIOXANE	ND	9.3	4.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	17.4	18.64	93.4	50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/22/12
Batch No.   : 12F162                           Date Extracted: 06/22/12 14:55
Sample ID   : MBLK1S                           Date Analyzed: 06/22/12 14:55
Lab Samp ID: VOF5F18B                          Dilution Factor: 1
Lab File ID: RFY277                            Matrix          : SOIL
Ext Btch ID: VOF5F18                           % Moisture     : NA
Calib. Ref.: RFY069                            Instrument ID  : TOF5
=====
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
-----	-----	-----	-----
1,4-DIOXANE	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	19.7	20.00	98.4	50-150

METHOD 5035/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/22/12
Batch No.    : 12F162                           Date Extracted: 06/22/12 15:21
Sample ID    : MBLK2S                            Date Analyzed: 06/22/12 15:21
Lab Samp ID  : VPF031SB                         Dilution Factor: 1
Lab File ID  : RFY278                            Matrix          : SOIL
Ext Btch ID  : VOF5F18                          % Moisture      : NA
Calib. Ref.  : RFY069                            Instrument ID   : TOF5
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,4-DIOXANE	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	18.1	20.00	90.6	50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: 5035/8260B SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: VOF5F18B VOF5F18L VOF5F18C  
LAB FILE ID: RFY277 RFY274 RFY275  
DATE EXTRACTED: 06/22/1214:55 06/22/1213:36 06/22/1214:02 DATE COLLECTED: NA  
DATE ANALYZED: 06/22/1214:55 06/22/1213:36 06/22/1214:02 DATE RECEIVED: 06/22/12  
PREP. BATCH: VOF5F18 VOF5F18 VOF5F18  
CALIB. REF: RFY069 RFY069 RFY069

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,4-Dioxane	ND	200	208	104	200	199	100	4	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	20.0	17.3	86	20.0	17.2	86	50-150

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                          Date Extracted: 06/25/12 13:15
Sample ID    : EB2-062112                      Date Analyzed: 07/02/12 21:24
Lab Samp ID  : F162-01                         Dilution Factor: 1.11
Lab File ID  : RGH018                          Matrix          : WATER
Ext Btch ID  : SVF050W                        % Moisture     : NA
Calib. Ref.  : RPH072                          Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.22	0.11
ACENAPHTHYLENE	ND	0.22	0.11
ANTHRACENE	ND	0.22	0.11
BENZO (A) ANTHRACENE	ND	0.22	0.11
BENZO (A) PYRENE	ND	0.22	0.11
BENZO (B) FLUORANTHENE	ND	0.22	0.11
BENZO (K) FLUORANTHENE	ND	0.22	0.11
BENZO (G, H, I) PERYLENE	ND	0.22	0.11
CHRYSENE	ND	0.22	0.11
DIBENZO (A, H) ANTHRACENE	ND	0.22	0.11
FLUORANTHENE	ND	0.22	0.11
FLUORENE	ND	0.22	0.11
INDENO (1, 2, 3-CD) PYRENE	ND	0.22	0.11
NAPHTHALENE	ND	0.22	0.11
PHENANTHRENE	ND	0.22	0.11
2-METHYLNAPHTHALENE	ND	0.22	0.11
1-METHYLNAPHTHALENE	ND	0.22	0.11
N-NITROSODIMETHYLAMINE	ND	1.1	0.11
PYRENE	ND	0.22	0.11
AZOBENZENE	ND	1.1	0.11
BENZO (E) PYRENE	ND	0.22	0.11
BIPHENYL	ND	2.2	0.56

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	11.8	22.20	53.3	40-130
2-FLUOROBIPHENYL	11.2	22.20	50.5	45-130
TERPHENYL-D14	14.7	22.20	66.3	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
Batch No.    : 12F162                           Date Extracted: 06/25/12 13:15
Sample ID    : MBLK1W                           Date Analyzed: 07/02/12 19:10
Lab Samp ID  : SVF050WB                         Dilution Factor: 1
Lab File ID  : RGH011                           Matrix          : WATER
Ext Btch ID  : SVF050W                          % Moisture     : NA
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	15.7	20.00	78.7	40-130
2-FLUOROBIPHENYL	14.7	20.00	73.4	45-130
TERPHENYL-D14	19.0	20.00	94.9	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVF050WB SVF050WL SVF050WC  
LAB FILE ID: RGH011 RGH012 RGH013  
DATE EXTRACTED: 06/25/1213:15 06/25/1213:15 06/25/1213:15 DATE COLLECTED: NA  
DATE ANALYZED: 07/02/1219:10 07/02/1219:29 07/02/1219:48 DATE RECEIVED: 06/25/12  
PREP. BATCH: SVF050W SVF050W SVF050W  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	24.6	61	40.0	25.4	64	3	20-130	30
Acenaphthylene	ND	40.0	26.2	65	40.0	27.0	67	3	30-140	30
Anthracene	ND	40.0	24.1	60	40.0	28.9	72	18	40-130	30
Benzo (a) anthracene	ND	40.0	25.3	63	40.0	32.3	81	25	50-130	30
Benzo (a) pyrene	ND	40.0	25.8	65	40.0	33.2	83	25	50-130	30
Benzo (b) fluoranthene	ND	40.0	28.7	72	40.0	35.4	88	21	50-130	30
Benzo (k) fluoranthene	ND	40.0	24.6	62	40.0	33.0	83	29	50-130	30
Benzo (g, h, i) perylene	ND	40.0	27.0	68	40.0	34.9	87	25	30-150	30
Chrysene	ND	40.0	24.6	62	40.0	31.6	79	25	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	27.8	69	40.0	35.9	90	26	40-140	30
Fluoranthene	ND	40.0	26.4	66	40.0	33.3	83	23	40-130	30
Fluorene	ND	40.0	27.4	69	40.0	29.9	75	9	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	27.8	69	40.0	35.9	90	25	40-130	30
Naphthalene	ND	40.0	21.0	53	40.0	21.7	54	3	20-130	30
Phenanthrene	ND	40.0	24.6	61	40.0	29.3	73	18	40-130	30
2-Methylnaphthalene	ND	40.0	22.8	57	40.0	23.2	58	2	30-150	30
1-Methylnaphthalene	ND	40.0	23.0	57	40.0	23.4	59	2	40-150	30
N-Nitrosodimethylamine	ND	40.0	19.6	49	40.0	19.5	49	1	20-150	30
Pyrene	ND	40.0	25.7	64	40.0	32.3	81	23	40-130	30
Azobenzene	ND	40.0	21.8	54	40.0	25.1	63	14	30-150	30
Benzo (e) pyrene	ND	40.0	24.1	60	40.0	30.3	76	23	30-150	30
Biphenyl	ND	40.0	21.4	53	40.0	21.3	53	0	30-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	9.74	49	20.0	10.1	50	40-130
2-Fluorobiphenyl	20.0	9.97	50	20.0	10.1	50	45-130
Terphenyl-d14	20.0	12.9	64	20.0	16.4	82	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-600-SA5C-SB-4.0-5.0          Date Analyzed: 07/03/12 21:13
Lab Samp ID  : F162-04                           Dilution Factor: 1
Lab File ID  : RGH057                             Matrix          : SOIL
Ext Btch ID  : SVF060S                           % Moisture     : 6.2
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.3	2.7
BENZO (E) PYRENE	ND	5.3	2.7
BIPHENYL	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	380	1066	35.6*	40-130
2-FLUOROBIPHENYL	362	1066	33.9*	45-130
TERPHENYL-D14	781	1066	73.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-602-SA5C-SB-4.0-5.0          Date Analyzed: 07/03/12 21:32
Lab Samp ID  : F162-05                           Dilution Factor: 1
Lab File ID  : RGH058                             Matrix          : SOIL
Ext Btch ID  : SVF060S                            % Moisture     : 3.8
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.6
ACENAPHTHYLENE	ND	10	2.6
ANTHRACENE	ND	10	2.6
BENZO (A) ANTHRACENE	ND	10	2.6
BENZO (A) PYRENE	ND	10	2.6
BENZO (B) FLUORANTHENE	ND	10	2.6
BENZO (K) FLUORANTHENE	ND	10	2.6
BENZO (G, H, I) PERYLENE	ND	10	2.6
CHRYSENE	ND	10	2.6
DIBENZO (A, H) ANTHRACENE	ND	10	2.6
FLUORANTHENE	ND	10	2.6
FLUORENE	ND	10	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.6
NAPHTHALENE	ND	10	2.6
PHENANTHRENE	ND	10	2.6
2-METHYLNAPHTHALENE	ND	10	2.6
1-METHYLNAPHTHALENE	ND	10	2.6
N-NITROSODIMETHYLAMINE	ND	10	2.6
PYRENE	ND	10	2.6
AZOBENZENE	ND	5.2	2.6
BENZO (E) PYRENE	ND	5.2	2.6
BIPHENYL	ND	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	480	1040	46.2	40-130
2-FLUOROBIPHENYL	465	1040	44.7*	45-130
TERPHENYL-D14	810	1040	77.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-603-SA5C-SB-4.0-5.0          Date Analyzed: 07/03/12 21:51
Lab Samp ID  : F162-07                           Dilution Factor: 1
Lab File ID  : RGH059                             Matrix          : SOIL
Ext Btch ID  : SVF060S                           % Moisture     : 9.7
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	279	1107	25.2*	40-130
2-FLUOROBIPHENYL	249	1107	22.5*	45-130
TERPHENYL-D14	823	1107	74.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-584-SA5C-SB-4.0-5.0          Date Analyzed: 07/03/12 22:10
Lab Samp ID  : F162-10                          Dilution Factor: 1
Lab File ID  : RGH060                           Matrix          : SOIL
Ext Btch ID  : SVF060S                          % Moisture     : 12.2
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	558	1139	49.0	40-130
2-FLUOROBIPHENYL	504	1139	44.3*	45-130
TERPHENYL-D14	942	1139	82.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-599-SA5C-SB-4.0-5.0          Date Analyzed: 07/03/12 22:30
Lab Samp ID  : F162-11                          Dilution Factor: 1
Lab File ID  : RGH061                           Matrix          : SOIL
Ext Btch ID  : SVF060S                          % Moisture     : 5.1
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.6
ACENAPHTHYLENE	ND	11	2.6
ANTHRACENE	ND	11	2.6
BENZO (A) ANTHRACENE	ND	11	2.6
BENZO (A) PYRENE	ND	11	2.6
BENZO (B) FLUORANTHENE	ND	11	2.6
BENZO (K) FLUORANTHENE	ND	11	2.6
BENZO (G, H, I) PERYLENE	ND	11	2.6
CHRYSENE	ND	11	2.6
DIBENZO (A, H) ANTHRACENE	ND	11	2.6
FLUORANTHENE	ND	11	2.6
FLUORENE	ND	11	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.6
NAPHTHALENE	ND	11	2.6
PHENANTHRENE	ND	11	2.6
2-METHYLNAPHTHALENE	ND	11	2.6
1-METHYLNAPHTHALENE	ND	11	2.6
N-NITROSODIMETHYLAMINE	ND	11	2.6
PYRENE	ND	11	2.6
AZOBENZENE	ND	5.3	2.6
BENZO (E) PYRENE	ND	5.3	2.6
BIPHENYL	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	355	1054	33.7*	40-130
2-FLUOROBIPHENYL	376	1054	35.7*	45-130
TERPHENYL-D14	807	1054	76.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-585-SA5C-SB-4.0-5.0          Date Analyzed: 07/03/12 22:49
Lab Samp ID  : F162-15                          Dilution Factor: 1
Lab File ID  : RGH062                           Matrix          : SOIL
Ext Btch ID  : SVF060S                          % Moisture     : 4.4
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.6
ACENAPHTHYLENE	ND	10	2.6
ANTHRACENE	ND	10	2.6
BENZO (A) ANTHRACENE	ND	10	2.6
BENZO (A) PYRENE	ND	10	2.6
BENZO (B) FLUORANTHENE	ND	10	2.6
BENZO (K) FLUORANTHENE	ND	10	2.6
BENZO (G, H, I) PERYLENE	ND	10	2.6
CHRYSENE	ND	10	2.6
DIBENZO (A, H) ANTHRACENE	ND	10	2.6
FLUORANTHENE	ND	10	2.6
FLUORENE	ND	10	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.6
NAPHTHALENE	ND	10	2.6
PHENANTHRENE	ND	10	2.6
2-METHYLNAPHTHALENE	ND	10	2.6
1-METHYLNAPHTHALENE	ND	10	2.6
N-NITROSODIMETHYLAMINE	ND	10	2.6
PYRENE	ND	10	2.6
AZOBENZENE	ND	5.2	2.6
BENZO (E) PYRENE	ND	5.2	2.6
BIPHENYL	ND	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	366	1046	35.0*	40-130
2-FLUOROBIPHENYL	369	1046	35.3*	45-130
TERPHENYL-D14	740	1046	70.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-594-SA5C-SB-0.0-0.5          Date Analyzed: 07/03/12 23:08
Lab Samp ID  : F162-16                           Dilution Factor: 2
Lab File ID  : RGH063                             Matrix          : SOIL
Ext Btch ID  : SVF060S                            % Moisture     : 13.0
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	23	5.7
ACENAPHTHYLENE	ND	23	5.7
ANTHRACENE	ND	23	5.7
BENZO (A) ANTHRACENE	ND	23	5.7
BENZO (A) PYRENE	ND	23	5.7
BENZO (B) FLUORANTHENE	ND	23	5.7
BENZO (K) FLUORANTHENE	ND	23	5.7
BENZO (G, H, I) PERYLENE	ND	23	5.7
CHRYSENE	ND	23	5.7
DIBENZO (A, H) ANTHRACENE	ND	23	5.7
FLUORANTHENE	ND	23	5.7
FLUORENE	ND	23	5.7
INDENO (1, 2, 3-CD) PYRENE	ND	23	5.7
NAPHTHALENE	ND	23	5.7
PHENANTHRENE	ND	23	5.7
2-METHYLNAPHTHALENE	ND	23	5.7
1-METHYLNAPHTHALENE	ND	23	5.7
N-NITROSODIMETHYLAMINE	ND	23	5.7
PYRENE	ND	23	5.7
AZOBENZENE	ND	11	5.7
BENZO (E) PYRENE	6.9J	11	5.7
BIPHENYL	ND	11	5.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	571	1149	49.7	40-130
2-FLUOROBIPHENYL	510	1149	44.3*	45-130
TERPHENYL-D14	926	1149	80.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-594-SA5C-SB-5.0-6.0          Date Analyzed: 07/03/12 23:27
Lab Samp ID  : F162-17                           Dilution Factor: 1
Lab File ID  : RGH064                             Matrix          : SOIL
Ext Btch ID  : SVF060S                            % Moisture     : 13.2
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	541	1152	47.0	40-130
2-FLUOROBIPHENYL	465	1152	40.4*	45-130
TERPHENYL-D14	872	1152	75.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/29/12 17:08
Sample ID    : SL-594-SA5C-SB-9.0-10.0         Date Analyzed: 07/03/12 23:46
Lab Samp ID  : F162-18                          Dilution Factor: 1
Lab File ID  : RGH065                           Matrix          : SOIL
Ext Btch ID  : SVF060S                          % Moisture     : 18.3
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	3.1
ACENAPHTHYLENE	ND	12	3.1
ANTHRACENE	ND	12	3.1
BENZO (A) ANTHRACENE	ND	12	3.1
BENZO (A) PYRENE	ND	12	3.1
BENZO (B) FLUORANTHENE	ND	12	3.1
BENZO (K) FLUORANTHENE	ND	12	3.1
BENZO (G, H, I) PERYLENE	ND	12	3.1
CHRYSENE	ND	12	3.1
DIBENZO (A, H) ANTHRACENE	ND	12	3.1
FLUORANTHENE	ND	12	3.1
FLUORENE	ND	12	3.1
INDENO (1, 2, 3-CD) PYRENE	ND	12	3.1
NAPHTHALENE	ND	12	3.1
PHENANTHRENE	ND	12	3.1
2-METHYLNAPHTHALENE	ND	12	3.1
1-METHYLNAPHTHALENE	ND	12	3.1
N-NITROSODIMETHYLAMINE	ND	12	3.1
PYRENE	ND	12	3.1
AZOBENZENE	ND	6.1	3.1
BENZO (E) PYRENE	ND	6.1	3.1
BIPHENYL	ND	6.1	3.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	565	1224	46.2	40-130
2-FLUOROBIPHENYL	417	1224	34.1*	45-130
TERPHENYL-D14	918	1224	75.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/29/12
Batch No.    : 12F162                          Date Extracted: 06/29/12 17:08
Sample ID    : MBLK1S                          Date Analyzed: 07/03/12 18:02
Lab Samp ID  : SVF060SB                       Dilution Factor: 1
Lab File ID  : RGH047                         Matrix          : SOIL
Ext Btch ID  : SVF060S                       % Moisture     : NA
Calib. Ref.  : RPH072                         Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	594	1000	59.4	40-130
2-FLUOROBIPHENYL	642	1000	64.2	45-130
TERPHENYL-D14	862	1000	86.2	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF060SB SVF060SL SVF060SC  
LAB FILE ID: RGH047 RGH048 RGH049  
DATE EXTRACTED: 06/29/1217:08 06/29/1217:08 06/29/1217:08 DATE COLLECTED: NA  
DATE ANALYZED: 07/03/1218:02 07/03/1218:21 07/03/1218:40 DATE RECEIVED: 06/29/12  
PREP. BATCH: SVF060S SVF060S SVF060S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	279	84	333	276	83	1	10-130	50
Acenaphthylene	ND	333	296	89	333	292	88	1	20-130	50
Anthracene	ND	333	276	83	333	269	81	2	20-130	50
Benzo (a) anthracene	ND	333	312	94	333	315	94	1	30-130	50
Benzo (a) pyrene	ND	333	311	93	333	314	94	1	30-130	50
Benzo (b) fluoranthene	ND	333	330	99	333	356	107	8	40-130	50
Benzo (k) fluoranthene	ND	333	318	95	333	300	90	6	30-140	50
Benzo (g, h, i) perylene	ND	333	327	98	333	331	99	1	30-140	50
Chrysene	ND	333	302	91	333	305	91	1	30-140	50
Dibenzo (a, h) anthracene	ND	333	338	101	333	343	103	1	40-140	50
Fluoranthene	ND	333	317	95	333	313	94	1	30-130	50
Fluorene	ND	333	302	91	333	294	88	3	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	337	101	333	343	103	2	20-160	50
Naphthalene	ND	333	258	77	333	244	73	5	10-130	50
Phenanthrene	ND	333	282	85	333	273	82	3	20-130	50
2-Methylnaphthalene	ND	333	275	83	333	270	81	2	30-150	50
1-Methylnaphthalene	ND	333	276	83	333	272	82	2	30-150	50
N-Nitrosodimethylamine	ND	333	238	71	333	211	63	12	30-150	50
Pyrene	ND	333	308	92	333	305	92	1	20-150	50
Azobenzene	ND	333	245	74	333	238	71	3	30-150	50
Benzo (e) pyrene	ND	333	281	84	333	295	88	5	30-150	50
Biphenyl	ND	333	219	66	333	222	67	2	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	1000	653	65	1000	685	68	40-130
2-Fluorobiphenyl	1000	664	66	1000	706	71	45-130
Terphenyl-d14	1000	780	78	1000	857	86	45-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/21/12
Project     : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.   : 12F162                           Date Extracted: 06/27/12 07:00
Sample ID   : EB2-062112                       Date Analyzed: 06/27/12 07:00
Lab Samp ID: F162-01                           Dilution Factor: 1
Lab File ID: EF25062A                          Matrix          : WATER
Ext Btch ID: VG39F13                           % Moisture     : NA
Calib. Ref.: EF25056A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	32J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	36.1	40.00	90.3 60-140

RL : Reporting Limit  
 Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

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=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/27/12 07:44
Sample ID    : TB-062112                        Date Analyzed: 06/27/12 07:44
Lab Samp ID  : F162-03                          Dilution Factor: 1
Lab File ID  : EF25063A                         Matrix          : WATER
Ext Btch ID  : VG39F13                          % Moisture     : NA
Calib. Ref.  : EF25056A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	28J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	36.0	40.00	90.1 60-140

RL : Reporting Limit  
 Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/26/12
Batch No.  : 12F162                             Date Extracted: 06/26/12 20:50
Sample ID  : MBLK1W                             Date Analyzed: 06/26/12 20:50
Lab Samp ID: VG39F13B                          Dilution Factor: 1
Lab File ID: EF25048A                          Matrix          : WATER
Ext Btch ID: VG39F13                            % Moisture     : NA
Calib. Ref.: EF25044A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	35.6	40.00	89.1 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F13B VG39F13L VG39F13C  
LAB FILE ID: EF25048A EF25050A EF25051A  
DATE EXTRACTED: 06/26/1220:50 06/26/1222:17 06/26/1223:01 DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1220:50 06/26/1222:17 06/26/1223:01 DATE RECEIVED: 06/26/12  
PREP. BATCH: VG39F13 VG39F13 VG39F13  
CALIB. REF: EF25044A EF25044A EF25044A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	466	93	500	441	88	5	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	44.1	110	40.0	42.6	107	60-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                       Date Received: 06/21/12
Batch No.    : 12F162                             Date Extracted: 06/26/12 09:37
Sample ID:   SL-602-SA5C-SB-5.0                 Date Analyzed: 06/26/12 09:37
Lab Samp ID: F162-06                             Dilution Factor: 0.99
Lab File ID: EF25033A                            Matrix          : SOIL
Ext Btch ID: GMF018S                             % Moisture     : 3.2
Calib. Ref.: EF25026A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.70	2.045	83.0 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/22/12 17:38

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/26/12 10:21
Sample ID:   SL-603-SA5C-SB-5.0                 Date Analyzed: 06/26/12 10:21
Lab Samp ID: F162-08                             Dilution Factor: 0.98
Lab File ID: EF25034A                             Matrix          : SOIL
Ext Btch ID: GMF018S                             % Moisture     : 12.4
Calib. Ref.: EF25026A                             Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.56
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.80	2.237	80.3 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/22/12 17:38

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/26/12 11:05
Sample ID:   SL-584-SA5C-SB-5.0                 Date Analyzed: 06/26/12 11:05
Lab Samp ID: F162-09                             Dilution Factor: 0.83
Lab File ID: EF25035A                            Matrix          : SOIL
Ext Btch ID: GMF018S                             % Moisture     : 12.0
Calib. Ref.: EF25026A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.94	0.47

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.58	1.886	83.6	70-140

RL : Reporting Limit  
 Methanol Extraction: 06/22/12 17:38

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/26/12 13:17
Sample ID    : SL-599-SA5C-SB-5.0              Date Analyzed: 06/26/12 13:17
Lab Samp ID  : F162-12                          Dilution Factor: 1.08
Lab File ID  : EF25038A                         Matrix          : SOIL
Ext Btch ID  : GMF018S                          % Moisture      : 6.1
Calib. Ref.  : EF25037A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.58
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.65	2.300	71.6 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/22/12 17:38

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/26/12 14:01
Sample ID:   SL-600-SA5C-SB-5.0                 Date Analyzed: 06/26/12 14:01
Lab Samp ID: F162-13                             Dilution Factor: 0.95
Lab File ID: EF25039A                           Matrix          : SOIL
Ext Btch ID: GMF018S                             % Moisture     : 5.7
Calib. Ref.: EF25037A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.42	2.015	70.3 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/22/12 17:38

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/26/12 14:44
Sample ID    : SL-585-SA5C-SB-5.0              Date Analyzed: 06/26/12 14:44
Lab Samp ID  : F162-14                          Dilution Factor: 0.92
Lab File ID  : EF25040A                        Matrix          : SOIL
Ext Btch ID  : GMF018S                         % Moisture     : 8.7
Calib. Ref.  : EF25037A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.43	2.015	71.1 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/22/12 17:38

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/26/12 18:39
Sample ID:   SL-594-SA5C-SB-9.0                 Date Analyzed: 06/26/12 18:39
Lab Samp ID: F162-19W                           Dilution Factor: 0.85
Lab File ID: EF25045A                           Matrix          : SOIL
Ext Btch ID: GMF018S                             % Moisture     : 15.5
Calib. Ref.: EF25044A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.81	2.012	89.8 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/22/12 17:38

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/26/12 19:22
Sample ID    : SL-594-SA5C-SB-6.0              Date Analyzed: 06/26/12 19:22
Lab Samp ID  : F162-20W                         Dilution Factor: 0.86
Lab File ID  : EF25046A                         Matrix          : SOIL
Ext Btch ID  : GMF018S                          % Moisture     : 13.1
Calib. Ref.  : EF25044A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.99	0.49

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.77	1.979	89.6	70-140

RL : Reporting Limit  
 Methanol Extraction: 06/22/12 17:38

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 06/25/12
Batch No.  : 12F162                             Date Extracted: 06/25/12 21:16
Sample ID  : MBLK1S                             Date Analyzed: 06/25/12 21:16
Lab Samp ID: GMF018SB                          Dilution Factor: 1
Lab File ID: EF25016A                          Matrix          : SOIL
Ext Btch ID: GMF018S                           % Moisture     : NA
Calib. Ref.: EF25015A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.79	2.000	89.3	60-130

RL : Reporting Limit  
 Methanol Extraction: 06/22/12 17:38

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF018SB GMF018SL GMF018SC  
LAB FILE ID: EF25016A EF25013A EF25014A  
DATE EXTRACTED: 06/25/1221:16 06/25/1219:05 06/25/1219:49 DATE COLLECTED: NA  
DATE ANALYZED: 06/25/1221:16 06/25/1219:05 06/25/1219:49 DATE RECEIVED: 06/25/12  
PREP. BATCH: GMF018S GMF018S GMF018S  
CALIB. REF: EF25015A EF25003A EF25003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	21.4	86	25.0	20.4	82	5	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.17	109	2.00	2.23	111	60-130

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/22/12 10:02
Sample ID    : EB2-062112                       Date Analyzed: 06/22/12 10:02
Lab Samp ID  : F162-01                           Dilution Factor: 1
Lab File ID  : BF22006A                         Matrix          : WATER
Ext Btch ID  : MEF005W                           % Moisture     : NA
Calib. Ref.  : BF22002A                         Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/22/12
Batch No.    : 12F162                             Date Extracted: 06/22/12 09:05
Sample ID    : MBLK1W                             Date Analyzed: 06/22/12 09:05
Lab Samp ID  : MEF005WB                           Dilution Factor: 1
Lab File ID  : BF22003A                           Matrix          : WATER
Ext Btch ID  : MEF005W                             % Moisture     : NA
Calib. Ref.  : BF22002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 8015B

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: MEF005WB MEF005WL MEF005WC  
LAB FILE ID: BF22003A BF22004A BF22005A  
DATE EXTRACTED: 06/22/1209:05 06/22/1209:26 06/22/1209:43 DATE COLLECTED: NA  
DATE ANALYZED: 06/22/1209:05 06/22/1209:26 06/22/1209:43 DATE RECEIVED: 06/22/12  
PREP. BATCH: MEF005W MEF005W MEF005W  
CALIB. REF: BF22002A BF22002A BF22002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	11000	110	10000	10000	100	9	50-150	30
Isopropanol	ND	10000	11300	113	10000	9700	97	15	50-150	30
Methanol	ND	10000	10600	106	10000	11100	111	5	50-150	30

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/25/12 13:30
Sample ID    : EB2-062112                       Date Analyzed: 06/27/12 03:36
Lab Samp ID  : F162-01                          Dilution Factor: 1
Lab File ID  : LF26058A                         Matrix          : WATER
Ext Btch ID  : DSF033W                          % Moisture     : NA
Calib. Ref.  : LF26050A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.738	1.000	73.8	40-130
HEXACOSANE	0.164	0.2500	65.5	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
Batch No.    : 12F162                           Date Extracted: 06/25/12 13:30
Sample ID    : MBLK1W                           Date Analyzed: 06/27/12 12:38
Lab Samp ID  : DSF033WQ                         Dilution Factor: 1
Lab File ID  : LF26088A                        Matrix          : WATER
Ext Btch ID  : DSF033W                          % Moisture     : NA
Calib. Ref.  : LF26086A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.828	1.000	82.8	40-130
HEXACOSANE	0.236	0.2500	94.3	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSF033WQ DSF033WL DSF033WC  
LAB FILE ID: LF26088A LF26055A LF26056A  
DATE EXTRACTED: 06/25/1213:30 06/25/1213:30 06/25/1213:30 DATE COLLECTED: NA  
DATE ANALYZED: 06/27/1212:38 06/27/1202:45 06/27/1203:02 DATE RECEIVED: 06/25/12  
PREP. BATCH: DSF033W DSF033W DSF033W  
CALIB. REF: LF26086A LF26050A LF26050A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.19	84	5.00	3.85	77	8	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.896	90	1.00	0.813	81	40-130
Hexacosane	0.250	0.230	92	0.250	0.199	79	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 09:52
Sample ID:   SL-600-SA5C-SB-4.0-5.0           Date Analyzed: 06/28/12 23:16
Lab Samp ID: F162-04                           Dilution Factor: 1
Lab File ID: LF28029A                          Matrix          : SOIL
Ext Btch ID: DSF038S                            % Moisture     : 6.2
Calib. Ref.: LF28027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	ND	5.3	2.7
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	ND	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.2	106.6	64.9	50-150
HEXACOSANE	26.0	26.65	97.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 09:52
Sample ID    : SL-602-SA5C-SB-4.0-5.0          Date Analyzed: 06/28/12 23:33
Lab Samp ID  : F162-05                           Dilution Factor: 1
Lab File ID  : LF28030A                          Matrix          : SOIL
Ext Btch ID  : DSF038S                           % Moisture     : 3.8
Calib. Ref.  : LF28027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.2	2.6
EFH(C12-C14)	ND	5.2	2.6
EFH(C15-C20)	ND	5.2	2.6
EFH(C21-C30)	ND	5.2	2.6
EFH(C30-C40)	ND	10	5.2
TOTAL EFH(C8-C40)	ND	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	68.0	104.0	65.5	50-150
HEXACOSANE	24.7	25.99	94.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 09:52
Sample ID    : SL-603-SA5C-SB-4.0-5.0          Date Analyzed: 06/28/12 23:50
Lab Samp ID  : F162-07                          Dilution Factor: 1
Lab File ID  : LF28031A                         Matrix          : SOIL
Ext Btch ID  : DSF038S                          % Moisture     : 9.7
Calib. Ref.  : LF28027A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.9	110.7	65.8	50-150
HEXACOSANE	27.6	27.69	99.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 09:52
Sample ID    : SL-584-SA5C-SB-4.0-5.0          Date Analyzed: 06/29/12 00:07
Lab Samp ID  : F162-10                           Dilution Factor: 1
Lab File ID  : LF28032A                          Matrix          : SOIL
Ext Btch ID  : DSF038S                           % Moisture     : 12.2
Calib. Ref. : LF28027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	85.1	113.9	74.7	50-150
HEXACOSANE	29.4	28.47	103	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                       Date Received: 06/21/12
Batch No.    : 12F162                             Date Extracted: 06/28/12 09:52
Sample ID:   SL-599-SA5C-SB-4.0-5.0              Date Analyzed: 06/29/12 00:24
Lab Samp ID: F162-11                             Dilution Factor: 1
Lab File ID: LF28033A                            Matrix          : SOIL
Ext Btch ID: DSF038S                             % Moisture     : 5.1
Calib. Ref.: LF28027A                            Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.6
EFH(C12-C14)	ND	5.3	2.6
EFH(C15-C20)	ND	5.3	2.6
EFH(C21-C30)	ND	5.3	2.6
EFH(C30-C40)	ND	11	5.3
TOTAL EFH(C8-C40)	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	70.8	105.4	67.2	50-150
HEXACOSANE	25.3	26.34	96.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 09:52
Sample ID    : SL-585-SA5C-SB-4.0-5.0          Date Analyzed: 06/29/12 00:41
Lab Samp ID  : F162-15                           Dilution Factor: 1
Lab File ID  : LF28034A                          Matrix          : SOIL
Ext Btch ID  : DSF038S                           % Moisture     : 4.4
Calib. Ref.  : LF28027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.2	2.6
EFH(C12-C14)	ND	5.2	2.6
EFH(C15-C20)	ND	5.2	2.6
EFH(C21-C30)	ND	5.2	2.6
EFH(C30-C40)	ND	10	5.2
TOTAL EFH(C8-C40)	ND	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.0	104.6	67.8	50-150
HEXACOSANE	25.7	26.15	98.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 09:52
Sample ID    : SL-594-SA5C-SB-0.0-0.5          Date Analyzed: 06/28/12 22:25
Lab Samp ID  : F162-16                           Dilution Factor: 1
Lab File ID  : LF28026A                          Matrix          : SOIL
Ext Btch ID  : DSF038S                           % Moisture     : 13.0
Calib. Ref.  : LF28015A                          Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	18	5.7	2.9
EFH(C30-C40)	50	11	5.7
TOTAL EFH(C8-C40)	68	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.7	114.9	65.9	50-150
HEXACOSANE	28.5	28.74	99.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 09:52
Sample ID:   SL-594-SA5C-SB-5.0-6.0           Date Analyzed: 06/29/12 00:58
Lab Samp ID: F162-17                           Dilution Factor: 1
Lab File ID: LF28035A                          Matrix          : SOIL
Ext Btch ID: DSF038S                           % Moisture     : 13.2
Calib. Ref.: LF28027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.8	115.2	64.0	50-150
HEXACOSANE	28.3	28.80	98.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 09:52
Sample ID:   SL-594-SA5C-SB-9.0-10.0          Date Analyzed: 06/29/12 01:15
Lab Samp ID: F162-18                           Dilution Factor: 1
Lab File ID: LF28036A                          Matrix          : SOIL
Ext Btch ID: DSF038S                           % Moisture     : 18.3
Calib. Ref.: LF28027A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	6.1	3.1
EFH(C12-C14)	ND	6.1	3.1
EFH(C15-C20)	ND	6.1	3.1
EFH(C21-C30)	ND	6.1	3.1
EFH(C30-C40)	ND	12	6.1
TOTAL EFH(C8-C40)	ND	6.1	3.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.7	122.4	65.1	50-150
HEXACOSANE	29.9	30.60	97.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/28/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 09:52
Sample ID    : MBLK1S                           Date Analyzed: 06/28/12 22:08
Lab Samp ID  : DSF038SB                         Dilution Factor: 1
Lab File ID  : LF28025A                         Matrix          : SOIL
Ext Btch ID  : DSF038S                          % Moisture     : NA
Calib. Ref.  : LF28015A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.7	100.0	72.7	50-150
HEXACOSANE	24.4	25.00	97.4	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSF038SB DSF038SL DSF038SC  
LAB FILE ID: LF28025A LF28023A LF28024A  
DATE EXTRACTED: 06/28/1209:52 06/28/1209:52 06/28/1209:52 DATE COLLECTED: NA  
DATE ANALYZED: 06/28/1222:08 06/28/1221:34 06/28/1221:51 DATE RECEIVED: 06/28/12  
PREP. BATCH: DSF038S DSF038S DSF038S  
CALIB. REF: LF28015A LF28015A LF28015A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	431	86	500	418	84	3	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	79.8	80	100	76.8	77	50-150
Hexacosane	25.0	25.1	100	25.0	24.1	96	50-150

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 06/21/12
Project     : SSFL PHASE 3                       Date Received: 06/21/12
Batch No.   : 12F162                             Date Extracted: 06/22/12 11:04
Sample ID   : EB2-062112                         Date Analyzed: 06/22/12 11:04
Lab Samp ID: F162-01                             Dilution Factor: 1
Lab File ID: TF22006A                           Matrix          : WATER
Ext Btch ID: PEF004W                             % Moisture     : NA
Calib. Ref.: TF22002A                           Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/22/12
Batch No.   : 12F162                           Date Extracted: 06/22/12 09:13
Sample ID   : MBLK1W                           Date Analyzed: 06/22/12 09:13
Lab Samp ID: PEF004WB                         Dilution Factor: 1
Lab File ID: TF22003A                        Matrix          : WATER
Ext Btch ID: PEF004W                          % Moisture     : NA
Calib. Ref.: TF22002A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 8015M

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PEF004WB PEF004WL PEF004WC  
LAB FILE ID: TF22003A TF22004A TF22005A  
DATE EXTRACTED: 06/22/1209:13 06/22/1209:27 06/22/1210:13 DATE COLLECTED: NA  
DATE ANALYZED: 06/22/1209:13 06/22/1209:27 06/22/1210:13 DATE RECEIVED: 06/22/12  
PREP. BATCH: PEF004W PEF004W PEF004W  
CALIB. REF: TF22002A TF22002A TF22002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	42.6	85	50.0	46.3	93	8	50-150	30
Ethylene Glycol	ND	50.0	42.9	86	50.0	45.0	90	5	50-150	30
Propylene Glycol	ND	25.0	22.2	89	25.0	24.6	98	10	50-150	30

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/25/12 11:45
Sample ID    : EB2-062112                       Date Analyzed: 06/29/12 19:23
Lab Samp ID  : F162-01                          Dilution Factor: 0.93
Lab File ID  : SF29013A                         Matrix          : WATER
Ext Btch ID  : CPF027W                          % Moisture     : NA
Calib. Ref.  : SF29007A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	0.93	0.47   0.47
AROCLOR 1221	(ND)   ND	0.93	0.47   0.47
AROCLOR 1232	(ND)   ND	0.93	0.47   0.47
AROCLOR 1242	(ND)   ND	0.93	0.47   0.47
AROCLOR 1248	(ND)   ND	0.93	0.47   0.47
AROCLOR 1254	(ND)   ND	0.93	0.47   0.47
AROCLOR 1260	(ND)   ND	0.93	0.47   0.47
AROCLOR 1262	(ND)   ND	0.93	0.47   0.47
AROCLOR 1268	(ND)   ND	0.93	0.47   0.47
AROCLOR 5432	(ND)   ND	1.9	0.93   0.93
AROCLOR 5442	(ND)   ND	1.9	0.93   0.93
AROCLOR 5460	(ND)   ND	1.9	0.93   0.93

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.3652)   0.4626	0.3720	(98.2)   124*	45-120
TETRACHLORO-M-XYLENE	(0.2854)   0.3249	0.3720	(76.7)   87.3	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/21/12
Project    : SSFL PHASE 3                       Date Received: 06/21/12
Batch No.  : 12F162                             Date Extracted: 06/25/12 11:45
Sample ID  : EB1-062112                         Date Analyzed: 06/29/12 19:57
Lab Samp ID: F162-02                            Dilution Factor: 1.06
Lab File ID: SF29014A                          Matrix          : WATER
Ext Btch ID: CPF027W                            % Moisture     : NA
Calib. Ref.: SF29007A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.1	0.53   0.53
AROCLOR 1221	(ND)   ND	1.1	0.53   0.53
AROCLOR 1232	(ND)   ND	1.1	0.53   0.53
AROCLOR 1242	(ND)   ND	1.1	0.53   0.53
AROCLOR 1248	(ND)   ND	1.1	0.53   0.53
AROCLOR 1254	(ND)   ND	1.1	0.53   0.53
AROCLOR 1260	(ND)   ND	1.1	0.53   0.53
AROCLOR 1262	(ND)   ND	1.1	0.53   0.53
AROCLOR 1268	(ND)   ND	1.1	0.53   0.53
AROCLOR 5432	(ND)   ND	2.1	1.1   1.1
AROCLOR 5442	(ND)   ND	2.1	1.1   1.1
AROCLOR 5460	(ND)   ND	2.1	1.1   1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.4111)   0.5397	0.4240	(97.0)   127*	45-120
TETRACHLORO-M-XYLENE	(0.3557)   0.3770	0.4240	(83.9)   88.9	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/25/12
Batch No.    : 12F162                           Date Extracted: 06/25/12 11:45
Sample ID    : MBLK1W                           Date Analyzed: 06/29/12 17:05
Lab Samp ID  : CPF027WB                         Dilution Factor: 1
Lab File ID  : SF29009A                        Matrix          : WATER
Ext Btch ID  : CPF027W                         % Moisture     : NA
Calib. Ref.  : SF29007A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.3808)   0.4759	0.4000	(95.2)   119	45-120
TETRACHLORO-M-XYLENE	(0.3431)   0.3579	0.4000	(85.8)   89.5	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPF027WB 60F027WX 60F027WY  
LAB FILE ID: SF29009A SF29010A SF29011A  
DATE EXTRACTED: 06/25/1211:45 06/25/1211:45 06/25/1211:45 DATE COLLECTED: NA  
DATE ANALYZED: 06/29/1217:05 06/29/1217:40 06/29/1218:14 DATE RECEIVED: 06/25/12  
PREP. BATCH: CPF027W CPF027W CPF027W  
CALIB. REF: SF29007A SF29007A SF29007A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	(4.44)   4.69	(89)   94	5.00	(4.36)   4.70	(87)   94	(2)   0	50-130	30
Aroclor 1260	(ND)   ND	5.00	(4.56)   5.48	(91)   110	5.00	(4.63)   5.64	(93)   113	(2)   3	60-150	30
Aroclor 5460	(ND)   ND	2.50	(3.32)   3.55	(133)   142	2.50	(3.16)   3.42	(126)   137	(5)   4	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	(0.4041)   0.4901	(101)   123*	0.4000	(0.3934)   0.4884	(98.4)   122*	45-120
Tetrachloro-m-xylene	0.4000	(0.3831)   0.3918	(95.8)   98.0	0.4000	(0.3553)   0.3699	(88.8)   92.5	30-140

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 11:14
Sample ID    : SL-600-SA5C-SB-4.0-5.0          Date Analyzed: 06/30/12 09:38
Lab Samp ID  : F162-04                           Dilution Factor: 1
Lab File ID  : SF29038A                          Matrix          : SOIL
Ext Btch ID  : CPF034S                           % Moisture     : 6.2
Calib. Ref.  : SF29035A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.00)   19.30	14.21	(106)   136*	45-120
TETRACHLORO-M-XYLENE	(12.09)   11.53	14.21	(85.1)   81.1	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 06/21/12
Project    : SSFL PHASE 3                       Date Received: 06/21/12
Batch No.  : 12F162                             Date Extracted: 06/28/12 11:14
Sample ID  : SL-602-SA5C-SB-4.0-5.0           Date Analyzed: 06/30/12 10:12
Lab Samp ID: F162-05                           Dilution Factor: 1
Lab File ID: SF29039A                          Matrix          : SOIL
Ext Btch ID: CPF034S                            % Moisture     : 3.8
Calib. Ref.: SF29035A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.70)   18.75	13.86	(106)   135*	45-120
TETRACHLORO-M-XYLENE	(12.23)   11.46	13.86	(88.3)   82.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 11:14
Sample ID    : SL-603-SA5C-SB-4.0-5.0          Date Analyzed: 06/30/12 10:46
Lab Samp ID  : F162-07                          Dilution Factor: 1
Lab File ID  : SF29040A                        Matrix          : SOIL
Ext Btch ID  : CPF034S                         % Moisture     : 9.7
Calib. Ref.  : SF29035A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.46)   18.64	14.76	(97.9)   126*	45-120
TETRACHLORO-M-XYLENE	(13.06)   11.93	14.76	(88.4)   80.8	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 11:14
Sample ID    : SL-584-SA5C-SB-4.0-5.0          Date Analyzed: 06/30/12 11:21
Lab Samp ID  : F162-10                           Dilution Factor: 1
Lab File ID  : SF29041A                          Matrix          : SOIL
Ext Btch ID  : CPF034S                            % Moisture     : 12.2
Calib. Ref.  : SF29035A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.86)   19.29	15.18	(97.9)   127*	45-120
TETRACHLORO-M-XYLENE	(13.33)   11.75	15.18	(87.8)   77.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 11:14
Sample ID    : SL-599-SA5C-SB-4.0-5.0          Date Analyzed: 06/30/12 11:55
Lab Samp ID  : F162-11                           Dilution Factor: 1
Lab File ID  : SF29042A                          Matrix          : SOIL
Ext Btch ID  : CPF034S                            % Moisture     : 5.1
Calib. Ref.  : SF29035A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	(14.50)   18.73	14.05	(103)   133*	45-120
TETRACHLORO-M-XYLENE	(12.95)   11.55	14.05	(92.2)   82.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                       Date Received: 06/21/12
Batch No.    : 12F162                             Date Extracted: 06/28/12 11:14
Sample ID    : SL-585-SA5C-SB-4.0-5.0            Date Analyzed: 06/30/12 12:29
Lab Samp ID  : F162-15                             Dilution Factor: 1
Lab File ID  : SF29043A                           Matrix          : SOIL
Ext Btch ID  : CPF034S                             % Moisture     : 4.4
Calib. Ref.  : SF29035A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.64)   18.88	13.94	(105)   135*	45-120
TETRACHLORO-M-XYLENE	(12.79)   11.64	13.94	(91.7)   83.5	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 11:14
Sample ID    : SL-594-SA5C-SB-0.0-0.5          Date Analyzed: 06/30/12 13:03
Lab Samp ID  : F162-16                          Dilution Factor: 1
Lab File ID  : SF29044A                         Matrix          : SOIL
Ext Btch ID  : CPF034S                          % Moisture     : 13.0
Calib. Ref.  : SF29035A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(10.90)   14.55	15.32	(71.1)   95.0	45-120
TETRACHLORO-M-XYLENE	(14.13)   11.75	15.32	(92.2)   76.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 11:14
Sample ID    : SL-594-SA5C-SB-5.0-6.0          Date Analyzed: 06/30/12 13:37
Lab Samp ID  : F162-17                          Dilution Factor: 1
Lab File ID  : SF29045A                         Matrix          : SOIL
Ext Btch ID  : CPF034S                          % Moisture     : 13.2
Calib. Ref.  : SF29035A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.56)   18.42	15.36	(94.8)   120	45-120
TETRACHLORO-M-XYLENE	(14.35)   12.35	15.36	(93.5)   80.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
Batch No.    : 12F162                           Date Extracted: 06/28/12 11:14
Sample ID    : SL-594-SA5C-SB-9.0-10.0         Date Analyzed: 06/30/12 14:12
Lab Samp ID  : F162-18                           Dilution Factor: 1
Lab File ID  : SF29046A                          Matrix          : SOIL
Ext Btch ID  : CPF034S                            % Moisture     : 18.3
Calib. Ref.  : SF29035A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	49	24   24	
AROCLOR 5442	(ND)   ND	49	24   24	
AROCLOR 5460	(ND)   ND	49	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.42)   19.54	16.32	(94.5)   120	45-120
TETRACHLORO-M-XYLENE	(14.07)   12.76	16.32	(86.2)   78.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 06/28/12
Batch No.   : 12F162                           Date Extracted: 06/28/12 11:14
Sample ID   : MBLK1S                           Date Analyzed: 06/29/12 20:31
Lab Samp ID: 60F034SB                         Dilution Factor: 1
Lab File ID: SF29015A                        Matrix          : SOIL
Ext Btch ID: CPF034S                          % Moisture     : NA
Calib. Ref.: SF29007A                        Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(13.51)   16.89	13.33	(101)   127*	45-120
TETRACHLORO-M-XYLENE	(12.15)   11.41	13.33	(91.1)   85.6	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F034SB 60F034SL 60F034SC  
LAB FILE ID: SF29015A SF29016A SF29017A  
DATE EXTRACTED: 06/28/1211:14 06/28/1211:14 06/28/1211:14 DATE COLLECTED: NA  
DATE ANALYZED: 06/29/1220:31 06/29/1221:05 06/29/1221:40 DATE RECEIVED: 06/28/12  
PREP. BATCH: CPF034S CPF034S CPF034S  
CALIB. REF: SF29007A SF29007A SF29007A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(138)   154	(83)   92	167	(143)   169	(86)   101	(4)   9	50-130	50
Aroclor 1260	(ND)   ND	167	(150)   180	(90)   108	167	(165)   189	(99)   113	(10)   5	60-150	50
Aroclor 5460	(ND)   ND	83.3	(100)   112	(120)   134	83.3	(103)   115	(124)   138	(3)   3	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(13.86)   16.93	(104)   127*	13.33	(14.45)   17.70	(108)   133*	45-120
Tetrachloro-m-xylene	13.33	(12.53)   11.60	(94.0)   87.0	13.33	(13.16)   12.25	(98.7)   91.9	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/21/12
Project    : SSFL PHASE 3                     Date Received: 06/21/12
SDG NO.    : 12F162                           Date Extracted: 06/27/12 10:30
Sample ID  : EB2-062112                       Date Analyzed: 07/03/12 16:53
Lab Samp ID: F162-01                           Dilution Factor: 1
Lab File ID: 98G01058                         Matrix          : WATER
Ext Btch ID: IMF049W                          % Moisture     : NA
Calib. Ref.: 98G01053                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	0.0723J	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00560J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	0.0304J	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.00245	0.00100	0.000500
Iron	0.0220J	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	0.000336J	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	0.104	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/27/12
SDG NO.     : 12F162                           Date Extracted: 06/27/12 10:30
Sample ID   : MBLK1W                            Date Analyzed: 07/03/12 16:39
Lab Samp ID : IMF049WB                         Dilution Factor: 1
Lab File ID : 98G01055                        Matrix          : WATER
Ext Btch ID : IMF049W                         % Moisture     : NA
Calib. Ref. : 98G01053                       Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F162  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMF049WB IMF049WL IMF049WC  
LAB FILE ID: 98G01055 98G01056 98G01057  
DATIME EXTRACTD: 06/27/1210:30 06/27/1210:30 06/27/1210:30 DATE COLLECTED: NA  
DATIME ANALYZD: 07/03/1216:39 07/03/1216:44 07/03/1216:48 DATE RECEIVED: 06/27/12  
PREP. BATCH: IMF049W IMF049W IMF049W  
CALIB. REF: 98G01053 98G01053 98G01053

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.61	104	2.50	2.57	103	1	80-120	20
Antimony	ND	0.0250	0.0259	104	0.0250	0.0255	102	1	80-120	20
Arsenic	ND	0.0250	0.0254	101	0.0250	0.0257	103	1	80-120	20
Barium	ND	0.0250	0.0259	104	0.0250	0.0257	103	1	80-120	20
Beryllium	ND	0.0250	0.0257	103	0.0250	0.0254	101	1	80-120	20
Boron	ND	0.0250	0.0263	105	0.0250	0.0261	104	1	80-120	20
Cadmium	ND	0.0250	0.0252	101	0.0250	0.0255	102	1	80-120	20
Calcium	ND	2.50	2.73	109	2.50	2.75	110	1	80-120	20
Chromium	ND	0.0250	0.0246	98	0.0250	0.0243	97	1	80-120	20
Cobalt	ND	0.0250	0.0246	98	0.0250	0.0245	98	1	80-120	20
Copper	ND	0.0250	0.0247	99	0.0250	0.0244	98	1	80-120	20
Iron	ND	2.50	2.66	106	2.50	2.66	106	0	80-120	20
Lead	ND	0.0250	0.0257	103	0.0250	0.0252	101	2	80-120	20
Magnesium	ND	2.50	2.63	105	2.50	2.59	103	2	80-120	20
Manganese	ND	0.0250	0.0250	100	0.0250	0.0254	101	1	80-120	20
Molybdenum	ND	0.0250	0.0250	100	0.0250	0.0248	99	1	80-120	20
Nickel	ND	0.0250	0.0246	98	0.0250	0.0243	97	1	80-120	20
Potassium	ND	2.50	2.66	107	2.50	2.62	105	2	80-120	20
Selenium	ND	0.0250	0.0245	98	0.0250	0.0250	100	2	80-120	20
Silver	ND	0.0250	0.0255	102	0.0250	0.0257	103	1	80-120	20
Sodium	ND	2.50	2.63	105	2.50	2.68	107	2	80-120	20
Strontium	ND	0.0250	0.0256	102	0.0250	0.0255	102	0	80-120	20
Thallium	ND	0.0250	0.0251	100	0.0250	0.0247	99	2	80-120	20
Tin	ND	0.0250	0.0258	103	0.0250	0.0255	102	1	80-120	20
Titanium	ND	0.0250	0.0255	102	0.0250	0.0256	102	0	80-120	20
Vanadium	ND	0.0250	0.0246	98	0.0250	0.0242	97	1	80-120	20
Zinc	ND	0.0500	0.0523	105	0.0500	0.0521	104	0	80-120	20
Lithium	ND	0.0250	0.0245	98	0.0250	0.0243	97	1	80-120	20
Phosphorus	ND	0.250	0.253	101	0.250	0.252	101	0	80-120	20
Zirconium	ND	0.0250	0.0251	101	0.0250	0.0253	101	1	80-120	20

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/21/12
Project     : SSFL PHASE 3                     Date Received: 06/21/12
SDG NO.    : 12F162                           Date Extracted: 06/27/12 12:00
Sample ID: SL-600-SA5C-SB-4.0-5.0           Date Analyzed: 07/03/12 15:26
Lab Samp ID: F162-04                         Dilution Factor: 0.966
Lab File ID: 98G01039                       Matrix          : SOIL
Ext Btch ID: IMF050S                        % Moisture     : 6.2
Calib. Ref.: 98G01029                       Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10300	103	12.4
Antimony	0.146J	0.515	0.103
Arsenic	3.58	0.515	0.206
Barium	84.0	0.515	0.206
Beryllium	0.445J	0.515	0.0515
Boron	ND	5.15	2.57
Cadmium	0.165J	0.515	0.0515
Calcium	2800	20.6	10.3
Chromium	14.6	0.515	0.206
Cobalt	4.60	0.515	0.0515
Copper	5.93	0.515	0.206
Iron	18400	103	10.3
Lead	3.94	0.515	0.103
Magnesium	4560	10.3	5.15
Manganese	218	0.515	0.257
Molybdenum	0.251J	0.515	0.0515
Nickel	9.45	0.515	0.206
Potassium	1910	103	30.9
Selenium	ND	0.515	0.206
Silver	ND	0.515	0.0515
Sodium	126	103	51.5
Strontium	18.2	0.515	0.257
Thallium	0.217J	0.412	0.0515
Tin	ND	10.3	5.15
Titanium	912	1.03	0.515
Vanadium	27.9	0.515	0.0515
Zinc	51.6	5.15	1.54
Lithium	21.6	2.06	1.03
Phosphorus	302	12.4	6.18
Zirconium	ND	5.15	2.57

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/21/12
Project    : SSFL PHASE 3                     Date Received: 06/21/12
SDG NO.    : 12F162                           Date Extracted: 06/27/12 12:00
Sample ID  : SL-603-SA5C-SB-4.0-5.0          Date Analyzed: 07/03/12 15:45
Lab Samp ID: F162-07                           Dilution Factor: 0.957
Lab File ID: 98G01043                          Matrix          : SOIL
Ext Btch ID: IMF050S                           % Moisture     : 9.7
Calib. Ref.: 98G01041                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18100	106	12.7
Antimony	0.198J	0.530	0.106
Arsenic	10.5	0.530	0.212
Barium	173	0.530	0.212
Beryllium	1.15	0.530	0.0530
Boron	ND	5.30	2.65
Cadmium	0.282J	0.530	0.0530
Calcium	7230	21.2	10.6
Chromium	30.1	0.530	0.212
Cobalt	9.54	0.530	0.0530
Copper	19.4	0.530	0.212
Iron	33000	106	10.6
Lead	12.8	0.530	0.106
Magnesium	7300	10.6	5.30
Manganese	424	0.530	0.265
Molybdenum	0.534	0.530	0.0530
Nickel	23.4	0.530	0.212
Potassium	2550	106	31.8
Selenium	ND	0.530	0.212
Silver	0.0746J	0.530	0.0530
Sodium	546	106	53.0
Strontium	45.9	0.530	0.265
Thallium	0.352J	0.424	0.0530
Tin	ND	10.6	5.30
Titanium	1050	1.06	0.530
Vanadium	48.0	0.530	0.0530
Zinc	100	5.30	1.59
Lithium	37.7	2.12	1.06
Phosphorus	546	12.7	6.36
Zirconium	ND	5.30	2.65

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/21/12
Project     : SSFL PHASE 3                     Date Received: 06/21/12
SDG NO.    : 12F162                            Date Extracted: 06/27/12 12:00
Sample ID:  SL-584-SA5C-SB-4.0-5.0           Date Analyzed: 07/03/12 15:49
Lab Samp ID: F162-10                          Dilution Factor: 1.00
Lab File ID: 98G01044                         Matrix          : SOIL
Ext Btch ID: IMF050S                          % Moisture     : 12.2
Calib. Ref.: 98G01041                         Instrument ID  : T-198
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20700	114	13.7
Antimony	0.230J	0.569	0.114
Arsenic	8.05	0.569	0.228
Barium	126	0.569	0.228
Beryllium	1.12	0.569	0.0569
Boron	ND	5.69	2.85
Cadmium	0.283J	0.569	0.0569
Calcium	6000	22.8	11.4
Chromium	29.4	0.569	0.228
Cobalt	8.72	0.569	0.0569
Copper	19.6	0.569	0.228
Iron	29600	114	11.4
Lead	12.8	0.569	0.114
Magnesium	6580	11.4	5.69
Manganese	226	0.569	0.285
Molybdenum	0.352J	0.569	0.0569
Nickel	17.6	0.569	0.228
Potassium	2350	114	34.2
Selenium	ND	0.569	0.228
Silver	0.0636J	0.569	0.0569
Sodium	476	114	56.9
Strontium	40.9	0.569	0.285
Thallium	0.315J	0.456	0.0569
Tin	ND	11.4	5.69
Titanium	704	1.14	0.569
Vanadium	50.4	0.569	0.0569
Zinc	65.1	5.69	1.71
Lithium	26.2	2.28	1.14
Phosphorus	282	13.7	6.83
Zirconium	ND	5.69	2.85

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/21/12
Project     : SSFL PHASE 3                     Date Received: 06/21/12
SDG NO.    : 12F162                           Date Extracted: 06/27/12 12:00
Sample ID: SL-599-SA5C-SB-4.0-5.0           Date Analyzed: 07/03/12 15:54
Lab Samp ID: F162-11                         Dilution Factor: 0.966
Lab File ID: 98G01045                        Matrix          : SOIL
Ext Btch ID: IMF050S                          % Moisture     : 5.1
Calib. Ref.: 98G01041                        Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9990	102	12.2
Antimony	0.236J	0.509	0.102
Arsenic	5.07	0.509	0.204
Barium	75.6	0.509	0.204
Beryllium	0.542	0.509	0.0509
Boron	ND	5.09	2.54
Cadmium	0.171J	0.509	0.0509
Calcium	2900	20.4	10.2
Chromium	15.3	0.509	0.204
Cobalt	6.40	0.509	0.0509
Copper	7.72	0.509	0.204
Iron	18200	102	10.2
Lead	4.95	0.509	0.102
Magnesium	4000	10.2	5.09
Manganese	198	0.509	0.254
Molybdenum	0.352J	0.509	0.0509
Nickel	11.0	0.509	0.204
Potassium	1630	102	30.5
Selenium	ND	0.509	0.204
Silver	ND	0.509	0.0509
Sodium	376	102	50.9
Strontium	21.1	0.509	0.254
Thallium	0.215J	0.407	0.0509
Tin	ND	10.2	5.09
Titanium	862	1.02	0.509
Vanadium	28.1	0.509	0.0509
Zinc	51.4	5.09	1.53
Lithium	20.4	2.04	1.02
Phosphorus	309	12.2	6.11
Zirconium	ND	5.09	2.54

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/21/12
Project     : SSFL PHASE 3                     Date Received: 06/21/12
SDG NO.    : 12F162                           Date Extracted: 06/27/12 12:00
Sample ID   : SL-585-SA5C-SB-4.0-5.0         Date Analyzed: 07/03/12 15:58
Lab Samp ID: F162-15                          Dilution Factor: 0.995
Lab File ID: 98G01046                         Matrix          : SOIL
Ext Btch ID: IMF050S                          % Moisture     : 4.4
Calib. Ref.: 98G01041                         Instrument ID   : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9010	104	12.5
Antimony	0.179J	0.520	0.104
Arsenic	5.01	0.520	0.208
Barium	65.9	0.520	0.208
Beryllium	0.488J	0.520	0.0520
Boron	ND	5.20	2.60
Cadmium	0.147J	0.520	0.0520
Calcium	3210	20.8	10.4
Chromium	15.6	0.520	0.208
Cobalt	6.57	0.520	0.0520
Copper	7.80	0.520	0.208
Iron	15900	104	10.4
Lead	4.56	0.520	0.104
Magnesium	3930	10.4	5.20
Manganese	195	0.520	0.260
Molybdenum	0.245J	0.520	0.0520
Nickel	10.3	0.520	0.208
Potassium	1810	104	31.2
Selenium	ND	0.520	0.208
Silver	ND	0.520	0.0520
Sodium	243	104	52.0
Strontium	20.1	0.520	0.260
Thallium	0.232J	0.416	0.0520
Tin	ND	10.4	5.20
Titanium	816	1.04	0.520
Vanadium	28.1	0.520	0.0520
Zinc	46.3	5.20	1.56
Lithium	19.6	2.08	1.04
Phosphorus	290	12.5	6.24
Zirconium	ND	5.20	2.60

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/21/12
Project     : SSFL PHASE 3                     Date Received: 06/21/12
SDG NO.    : 12F162                           Date Extracted: 06/27/12 12:00
Sample ID:  SL-594-SA5C-SB-0.0-0.5           Date Analyzed: 07/03/12 16:03
Lab Samp ID: F162-16                          Dilution Factor: 0.980
Lab File ID: 98G01047                         Matrix          : SOIL
Ext Btch ID: IMF050S                          % Moisture     : 13.0
Calib. Ref.: 98G01041                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14300	113	13.5
Antimony	0.230J	0.563	0.113
Arsenic	4.84	0.563	0.225
Barium	141	0.563	0.225
Beryllium	0.589	0.563	0.0563
Boron	14.7	5.63	2.82
Cadmium	0.251J	0.563	0.0563
Calcium	9560	22.5	11.3
Chromium	19.7	0.563	0.225
Cobalt	6.95	0.563	0.0563
Copper	10.7	0.563	0.225
Iron	21200	113	11.3
Lead	7.44	0.563	0.113
Magnesium	6390	11.3	5.63
Manganese	330	0.563	0.282
Molybdenum	0.843	0.563	0.0563
Nickel	14.2	0.563	0.225
Potassium	4020	113	33.8
Selenium	ND	0.563	0.225
Silver	0.0691J	0.563	0.0563
Sodium	367	113	56.3
Strontium	46.1	0.563	0.282
Thallium	0.256J	0.451	0.0563
Tin	ND	11.3	5.63
Titanium	871	1.13	0.563
Vanadium	37.9	0.563	0.0563
Zinc	56.2	5.63	1.69
Lithium	18.1	2.25	1.13
Phosphorus	410	13.5	6.76
Zirconium	ND	5.63	2.82

METHOD 6020  
 METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 06/21/12
Project      : SSFL PHASE 3                     Date Received: 06/21/12
SDG NO.     : 12F162                            Date Extracted: 06/27/12 12:00
Sample ID   : SL-594-SA5C-SB-5.0-6.0           Date Analyzed: 07/03/12 16:07
Lab Samp ID : F162-17                           Dilution Factor: 0.966
Lab File ID : 98G01048                          Matrix          : SOIL
Ext Btch ID : IMF050S                            % Moisture     : 13.2
Calib. Ref. : 98G01041                          Instrument ID   : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17400	111	13.4
Antimony	0.237J	0.556	0.111
Arsenic	6.13	0.556	0.223
Barium	106	0.556	0.223
Beryllium	0.786	0.556	0.0556
Boron	3.71J	5.56	2.78
Cadmium	0.232J	0.556	0.0556
Calcium	2800	22.3	11.1
Chromium	23.4	0.556	0.223
Cobalt	6.73	0.556	0.0556
Copper	10.7	0.556	0.223
Iron	23400	111	11.1
Lead	8.31	0.556	0.111
Magnesium	5280	11.1	5.56
Manganese	312	0.556	0.278
Molybdenum	0.728	0.556	0.0556
Nickel	16.3	0.556	0.223
Potassium	2910	111	33.4
Selenium	ND	0.556	0.223
Silver	0.0969J	0.556	0.0556
Sodium	125	111	55.6
Strontium	23.1	0.556	0.278
Thallium	0.282J	0.445	0.0556
Tin	ND	11.1	5.56
Titanium	956	1.11	0.556
Vanadium	41.1	0.556	0.0556
Zinc	58.4	5.56	1.67
Lithium	24.4	2.23	1.11
Phosphorus	271	13.4	6.68
Zirconium	ND	5.56	2.78

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 06/21/12
Project     : SSFL PHASE 3                     Date Received: 06/21/12
SDG NO.    : 12F162                           Date Extracted: 06/27/12 12:00
Sample ID:  SL-594-SA5C-SB-9.0-10.0          Date Analyzed: 07/03/12 15:17
Lab Samp ID: F162-18                          Dilution Factor: 0.990
Lab File ID: 98G01037                         Matrix          : SOIL
Ext Btch ID: IMF050S                          % Moisture     : 18.3
Calib. Ref.: 98G01029                         Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	24000	121	14.5
Antimony	0.262J	0.606	0.121
Arsenic	5.08	0.606	0.242
Barium	158	0.606	0.242
Beryllium	0.909	0.606	0.0606
Boron	3.38J	6.06	3.03
Cadmium	0.384J	0.606	0.0606
Calcium	5130	24.2	12.1
Chromium	28.8	0.606	0.242
Cobalt	8.33	0.606	0.0606
Copper	12.4	0.606	0.242
Iron	28300	121	12.1
Lead	9.19	0.606	0.121
Magnesium	6230	12.1	6.06
Manganese	336	0.606	0.303
Molybdenum	0.531J	0.606	0.0606
Nickel	17.0	0.606	0.242
Potassium	3540	121	36.4
Selenium	ND	0.606	0.242
Silver	0.0746J	0.606	0.0606
Sodium	211	121	60.6
Strontium	40.5	0.606	0.303
Thallium	0.356J	0.485	0.0606
Tin	ND	12.1	6.06
Titanium	780	1.21	0.606
Vanadium	55.4	0.606	0.0606
Zinc	63.7	6.06	1.82
Lithium	20.3	2.42	1.21
Phosphorus	125	14.5	7.27
Zirconium	ND	6.06	3.03

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/27/12
SDG NO.     : 12F162                           Date Extracted: 06/27/12 12:00
Sample ID   : MBLK1S                            Date Analyzed: 07/03/12 14:50
Lab Samp ID : IMF050SB                         Dilution Factor: 1
Lab File ID : 98G01031                        Matrix          : SOIL
Ext Btch ID : IMF050S                          % Moisture     : NA
Calib. Ref. : 98G01029                        Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F162  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF050SB IMF050SL IMF050SC  
LAB FILE ID: 98G01031 98G01032 98G01033  
DATIME EXTRACTD: 06/27/1212:00 06/27/1212:00 06/27/1212:00 DATE COLLECTED: NA  
DATIME ANALYZD: 07/03/1214:50 07/03/1214:59 07/03/1214:59 DATE RECEIVED: 06/27/12  
PREP. BATCH: IMF050S IMF050S IMF050S  
CALIB. REF: 98G01029 98G01029 98G01029

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2520	101	2500	2460	98	3	80-120	20
Antimony	ND	25.0	25.3	101	25.0	24.5	98	3	80-120	20
Arsenic	ND	25.0	24.6	98	25.0	23.7	95	4	80-120	20
Barium	ND	25.0	25.0	100	25.0	24.0	96	4	80-120	20
Beryllium	ND	25.0	25.4	101	25.0	24.0	96	5	80-120	20
Boron	ND	25.0	25.5	102	25.0	24.8	99	3	80-120	20
Cadmium	ND	25.0	25.2	101	25.0	24.0	96	5	80-120	20
Calcium	ND	2500	2650	106	2500	2590	104	2	80-120	20
Chromium	ND	25.0	24.5	98	25.0	23.5	94	4	80-120	20
Cobalt	ND	25.0	24.5	98	25.0	23.7	95	3	80-120	20
Copper	ND	25.0	24.2	97	25.0	23.3	93	4	80-120	20
Iron	ND	2500	2580	103	2500	2540	102	2	80-120	20
Lead	ND	25.0	25.3	101	25.0	24.4	98	3	80-120	20
Magnesium	ND	2500	2510	101	2500	2470	99	2	80-120	20
Manganese	ND	25.0	24.9	99	25.0	24.3	97	2	80-120	20
Molybdenum	ND	25.0	24.7	99	25.0	23.8	95	4	80-120	20
Nickel	ND	25.0	24.0	96	25.0	23.2	93	3	80-120	20
Potassium	ND	2500	2640	106	2500	2570	103	3	80-120	20
Selenium	ND	25.0	24.0	96	25.0	23.2	93	3	80-120	20
Silver	ND	25.0	24.9	100	25.0	24.5	98	2	80-120	20
Sodium	ND	2500	2550	102	2500	2530	101	1	80-120	20
Strontium	ND	25.0	25.0	100	25.0	24.6	98	2	80-120	20
Thallium	ND	25.0	24.9	100	25.0	24.6	99	1	80-120	20
Tin	ND	25.0	27.5	110	25.0	26.6	107	3	80-120	20
Titanium	ND	25.0	24.9	100	25.0	24.1	96	3	80-120	20
Vanadium	ND	25.0	24.4	98	25.0	23.6	94	4	80-120	20
Zinc	ND	50.0	47.3	95	50.0	46.7	93	1	80-120	20
Lithium	ND	25.0	25.6	102	25.0	24.3	97	5	80-120	20
Phosphorus	ND	250	238	95	250	235	94	1	80-120	20
Zirconium	ND	25.0	24.5	98	25.0	24.0	96	2	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F162  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 18.3  
DILTN FACTR: 0.990 0.980 0.995  
SAMPLE ID: SL-594-SA5C-SB-9.0-10.0  
CONTROL NO.: F162-18 F162-18M F162-18S  
LAB FILE ID: 98G01037 98G01034 98G01035  
DATIME EXTRACTD: 06/27/1212:00 06/27/1212:00 06/27/1212:00 DATE COLLECTED: 06/21/12  
DATIME ANALYZD: 07/03/1215:17 07/03/1215:03 07/03/1215:08 DATE RECEIVED: 06/21/12  
PREP. BATCH: IMF050S IMF050S IMF050S  
CALIB. REF: 98G01029 98G01029 98G01029

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	24000	3000	27200	104	3040	28500	147*	5	75-125	20
Antimony	0.262J	30.0	20.4	67*	30.4	22.0	71*	8	75-125	20
Arsenic	5.08	30.0	32.5	92	30.4	32.5	90	0	75-125	20
Barium	158	30.0	189	102	30.4	202	144*	7	75-125	20
Beryllium	0.909	30.0	30.8	100	30.4	31.1	99	1	75-125	20
Boron	3.38J	30.0	28.1	82	30.4	29.2	85	4	75-125	20
Cadmium	0.384J	30.0	29.7	98	30.4	30.5	99	3	75-125	20
Calcium	5130	3000	8020	97	3040	8040	96	0	75-125	20
Chromium	28.8	30.0	56.0	91	30.4	56.2	90	0	75-125	20
Cobalt	8.33	30.0	33.4	84	30.4	35.4	89	6	75-125	20
Copper	12.4	30.0	37.4	84	30.4	37.1	81	1	75-125	20
Iron	28300	3000	31600	112	3040	32300	132*	2	75-125	20
Lead	9.19	30.0	38.4	97	30.4	39.1	98	2	75-125	20
Magnesium	6230	3000	8840	87	3040	9210	98	4	75-125	20
Manganese	336	30.0	332	-14*	30.4	461	409*	32*	75-125	20
Molybdenum	0.531J	30.0	28.6	94	30.4	29.2	94	2	75-125	20
Nickel	17.0	30.0	42.3	84	30.4	43.4	87	3	75-125	20
Potassium	3540	3000	6270	91	3040	6390	94	2	75-125	20
Selenium	ND	30.0	27.3	91	30.4	27.7	91	1	75-125	20
Silver	0.0746J	30.0	29.2	97	30.4	30.0	98	3	75-125	20
Sodium	211	3000	2910	90	3040	2960	90	2	75-125	20
Strontium	40.5	30.0	69.8	98	30.4	70.8	99	1	75-125	20
Thallium	0.356J	30.0	29.7	98	30.4	30.1	98	1	75-125	20
Tin	ND	30.0	33.9	113	30.4	34.4	113	2	75-125	20
Titanium	780	30.0	903	410*	30.4	948	553*	5	75-125	20
Vanadium	55.4	30.0	82.8	91	30.4	83.5	92	1	75-125	20
Zinc	63.7	60.0	118	90	60.9	120	93	2	75-125	20
Lithium	20.3	30.0	51.3	103	30.4	53.4	109	4	75-125	20
Phosphorus	125	300	371	82	304	388	86	4	75-125	20
Zirconium	ND	30.0	21.6	72*	30.4	22.4	74*	4	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F162  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 18.3  
DILT N FACTR: 0.990 0.990  
SAMPLE ID: SL-594-SA5C-SB-9.0-10.0  
CONTROL NO.: F162-18 F162-18A  
LAB FILE ID: 98G01037 98G01036  
DATIME EXTRACTD: 06/27/1212:00 06/27/1212:00 DATE COLLECTED: 06/21/12  
DATIME ANALYZD: 07/03/1215:17 07/03/1215:12 DATE RECEIVED: 06/21/12  
PREP. BATCH: IMF050S IMF050S  
CALIB. REF: 98G01029 98G01029

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	24000	3030	26400	78	75-125
Antimony	0.262J	30.3	30.5	100	75-125
Arsenic	5.08	30.3	32.5	91	75-125
Barium	158	30.3	188	99	75-125
Beryllium	0.909	30.3	29.1	93	75-125
Boron	3.38J	30.3	31.4	93	75-125
Cadmium	0.384J	30.3	29.6	96	75-125
Calcium	5130	3030	8090	98	75-125
Chromium	28.8	30.3	54.1	83	75-125
Cobalt	8.33	30.3	33.9	85	75-125
Copper	12.4	30.3	36.8	80	75-125
Iron	28300	3030	30700	79	75-125
Lead	9.19	30.3	37.6	94	75-125
Magnesium	6230	3030	9050	93	75-125
Manganese	336	30.3	355	61*	75-125
Molybdenum	0.531J	30.3	30.5	99	75-125
Nickel	17.0	30.3	41.6	81	75-125
Potassium	3540	3030	6390	94	75-125
Selenium	ND	30.3	27.7	91	75-125
Silver	0.0746J	30.3	29.1	96	75-125
Sodium	211	3030	3110	96	75-125
Strontium	40.5	30.3	68.6	93	75-125
Thallium	0.356J	30.3	29.1	95	75-125
Tin	ND	30.3	33.1	109	75-125
Titanium	780	30.3	790	34*	75-125
Vanadium	55.4	30.3	80.8	84	75-125
Zinc	63.7	60.6	116	87	75-125
Lithium	20.3	30.3	49.5	96	75-125
Phosphorus	125	303	411	94	75-125
Zirconium	ND	30.3	30.2	100	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 18.3  
DILUTION FACTOR: 0.990 4.95  
SAMPLE ID: SL-594-SA5C-SB SL-594-SA5C-SB  
EMAX SAMP ID: F162-18 F162-18J  
LAB FILE ID: 98G01037 98G01038  
DATE EXTRACTED: 06/27/1212:00 06/27/1212:00 DATE COLLECTED: 06/21/12  
DATE ANALYZED: 07/03/1215:17 07/03/1215:22 DATE RECEIVED: 06/21/12  
PREP. BATCH: IMF050S IMF050S  
CALIB. REF: 98G01029 98G01029

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	24000	25300	5	10
Antimony	0.262J	ND	NA	10
Arsenic	5.08	5.37	6	10
Barium	158	149	6	10
Beryllium	0.909	0.874J	NA	10
Boron	3.38J	ND	NA	10
Cadmium	0.384J	0.326J	NAR	10
Calcium	5130	5520	8	10
Chromium	28.8	30.9	7	10
Cobalt	8.33	9.09	9	10
Copper	12.4	13.9	12*	10
Iron	28300	30700	9	10
Lead	9.19	9.14	0	10
Magnesium	6230	6680	7	10
Manganese	336	365	9	10
Molybdenum	0.531J	0.521J	NA	10
Nickel	17.0	18.6	9	10
Potassium	3540	3630	3	10
Selenium	ND	ND	0	10
Silver	0.0746J	ND	NA	10
Sodium	211	ND	NA	10
Strontium	40.5	39.2	3	10
Thallium	0.356J	0.355J	NA	10
Tin	ND	ND	0	10
Titanium	780	796	2	10
Vanadium	55.4	58.6	6	10
Zinc	63.7	62.8	2	10
Lithium	20.3	18.9	7	10
Phosphorus	125	136	9	10
Zirconium	ND	ND	0	10

METHOD 7470A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F162  
=====

Matrix : WATER  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGF034WB	ND	1	NA	0.000500	0.000100	06/27/1218:46	06/27/1215:15	M47F023010	M47F023008	HGF034W	NA	06/27/12
LCS1W	HGF034WL	0.00516	1	NA	0.000500	0.000100	06/27/1218:48	06/27/1215:15	M47F023011	M47F023008	HGF034W	NA	06/27/12
LCD1W	HGF034WC	0.00500	1	NA	0.000500	0.000100	06/27/1218:52	06/27/1215:15	M47F023012	M47F023008	HGF034W	NA	06/27/12
EB2-062112	F162-01	ND	1	NA	0.000500	0.000100	06/27/1219:19	06/27/1215:15	M47F023025	M47F023020	HGF034W	06/21/12	06/21/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F162  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGF034WB HGF034WL HGF034WC  
LAB FILE ID: M47F023010 M47F023011 M47F023012  
DATIME EXTRCTD: 06/27/1215:15 06/27/1215:15 06/27/1215:15 DATE COLLECTED: NA  
DATIME ANALYZD: 06/27/1218:46 06/27/1218:48 06/27/1218:52 DATE RECEIVED: 06/27/12  
PREP. BATCH: HGF034W HGF034W HGF034W  
CALIB. REF: M47F023008 M47F023008 M47F023008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00516	103	.005	.005	100	3	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F162  
=====

Matrix : SOIL  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGG001SB	ND	1	NA	0.100	0.0500	07/02/1216:30	07/02/1213:00	M47G001010	M47G001008	HGG001S	NA	07/02/12
LCS1S	HGG001SL	0.858	1	NA	0.100	0.0500	07/02/1216:32	07/02/1213:00	M47G001011	M47G001008	HGG001S	NA	07/02/12
LCD1S	HGG001SC	0.860	1	NA	0.100	0.0500	07/02/1216:34	07/02/1213:00	M47G001012	M47G001008	HGG001S	NA	07/02/12
SL-600-SA5C-SB-4.0-5.0	F162-04	ND	0.995	6.2	0.106	0.0530	07/02/1217:10	07/02/1213:00	M47G001028	M47G001020	HGG001S	06/21/12	06/21/12
SL-603-SA5C-SB-4.0-5.0	F162-07	ND	0.998	9.7	0.111	0.0553	07/02/1217:12	07/02/1213:00	M47G001029	M47G001020	HGG001S	06/21/12	06/21/12
SL-584-SA5C-SB-4.0-5.0	F162-10	ND	0.997	12.2	0.114	0.0568	07/02/1217:14	07/02/1213:00	M47G001030	M47G001020	HGG001S	06/21/12	06/21/12
SL-599-SA5C-SB-4.0-5.0	F162-11	ND	0.992	5.1	0.105	0.0523	07/02/1217:16	07/02/1213:00	M47G001031	M47G001020	HGG001S	06/21/12	06/21/12
SL-585-SA5C-SB-4.0-5.0	F162-15	ND	0.993	4.4	0.104	0.0519	07/02/1217:23	07/02/1213:00	M47G001034	M47G001032	HGG001S	06/21/12	06/21/12
SL-594-SA5C-SB-0.0-0.5	F162-16	ND	0.993	13.0	0.114	0.0571	07/02/1217:25	07/02/1213:00	M47G001035	M47G001032	HGG001S	06/21/12	06/21/12
SL-594-SA5C-SB-5.0-6.0	F162-17	ND	0.993	13.2	0.114	0.0572	07/02/1217:27	07/02/1213:00	M47G001036	M47G001032	HGG001S	06/21/12	06/21/12
SL-594-SA5C-SB-9.0-10.0	F162-18	ND	0.992	18.3	0.121	0.0607	07/02/1217:29	07/02/1213:00	M47G001037	M47G001032	HGG001S	06/21/12	06/21/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F162  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGG001SB HGG001SL HGG001SC  
LAB FILE ID: M47G001010 M47G001011 M47G001012  
DATIME EXTRCTD: 07/02/1213:00 07/02/1213:00 07/02/1213:00 DATE COLLECTED: NA  
DATIME ANALYZD: 07/02/1216:30 07/02/1216:32 07/02/1216:34 DATE RECEIVED: 07/02/12  
PREP. BATCH: HGG001S HGG001S HGG001S  
CALIB. REF: M47G001008 M47G001008 M47G001008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.858	103	.833	.86	103	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F162  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 20.9  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: I-647-HB02-SS5.0  
CONTROL NO.: F158-09 F158-09A  
LAB FILE ID: M47G001014 M47G001013  
DATIME EXTRCTD: 07/02/1213:00 07/02/1213:00 DATE COLLECTED: 06/20/12  
DATIME ANALYZD: 07/02/1216:39 07/02/1216:37 DATE RECEIVED: 06/21/12  
PREP. BATCH: HGG001S HGG001S  
CALIB. REF: M47G001008 M47G001008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	1.05	1.1	105	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F162  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	20.9
DILUTION FACTOR:	0.998	4.99		
SAMPLE ID:	I-647-HB02-SS5.0	I-647-HB02-SS5.0DL		
EMAX SAMP ID:	F158-09	F158-09J		
LAB FILE ID:	M47G001014	M47G001015		
DATE EXTRACTED:	07/02/1213:00	07/02/1213:00	DATE COLLECTED:	06/20/12
DATE ANALYZED:	07/02/1216:39	07/02/1216:41	DATE RECEIVED:	06/21/12
PREP. BATCH:	HGG001S	HGG001S		
CALIB. REF:	M47G001008	M47G001008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 314.0  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F162  
 =====

Matrix : WATER  
 Instrument ID : I57  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PCF001WB	ND	1	NA	2.00	1.00	06/26/1213:17	NA	JF26002	JF26001	PCF001W	NA	NA
LCS1W	PCF001WL	23.8	1	NA	2.00	1.00	06/26/1213:59	NA	JF26004	JF26001	PCF001W	NA	NA
LCD1W	PCF001WC	23.8	1	NA	2.00	1.00	06/26/1214:37	NA	JF26005	JF26001	PCF001W	NA	NA
EB2-062112	F162-01	ND	1	NA	2.00	1.00	06/26/1214:58	NA	JF26006	JF26001	PCF001W	06/21/1215:00	06/21/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 314.0

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PCF001WB PCF001WL PCF001WC  
LAB FILE ID: JF26002 JF26004 JF26005  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1213:17 06/26/1213:59 06/26/1214:37 DATE RECEIVED: NA  
PREP. BATCH: PCF001W PCF001W PCF001W  
CALIB. REF: JF26001 JF26001 JF26001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	23.8	95	25.0	23.8	95	0	85-115	15

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F162  
=====

Matrix : SOIL  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLF003SB	ND	1	NA	5.00	2.50	06/26/1211:11	06/25/1215:34	MF26005	MF26004	PLF003S	NA	06/25/12
LCS1S	PLF003SL	28.8	1	NA	5.00	2.50	06/26/1211:25	06/25/1215:34	MF26006	MF26004	PLF003S	NA	06/25/12
LCD1S	PLF003SC	27.7	1	NA	5.00	2.50	06/26/1211:40	06/25/1215:34	MF26007	MF26004	PLF003S	NA	06/25/12
SL-600-SA5C-SB-4.0-5.0	F162-04	ND	1	6.2	5.33	2.67	06/26/1212:42	06/25/1215:34	MF26011	MF26004	PLF003S	06/21/1209:35	06/21/12
SL-602-SA5C-SB-4.0-5.0	F162-05	ND	1	3.8	5.20	2.60	06/26/1212:56	06/25/1215:34	MF26012	MF26004	PLF003S	06/21/1211:35	06/21/12
SL-603-SA5C-SB-4.0-5.0	F162-07	ND	1	9.7	5.54	2.77	06/26/1213:10	06/25/1215:34	MF26013	MF26004	PLF003S	06/21/1211:05	06/21/12
SL-599-SA5C-SB-4.0-5.0	F162-11	ND	1	5.1	5.27	2.63	06/26/1213:24	06/25/1215:34	MF26014	MF26004	PLF003S	06/21/1210:00	06/21/12
SL-594-SA5C-SB-0.0-0.5	F162-16	ND	1	13.0	5.75	2.87	06/26/1213:55	06/25/1215:34	MF26016	MF26015	PLF003S	06/21/1214:05	06/21/12
SL-594-SA5C-SB-5.0-6.0	F162-17	ND	1	13.2	5.76	2.88	06/26/1214:09	06/25/1215:34	MF26017	MF26015	PLF003S	06/21/1214:10	06/21/12
SL-594-SA5C-SB-9.0-10.0	F162-18	ND	1	18.3	6.12	3.06	06/26/1214:23	06/25/1215:34	MF26018	MF26015	PLF003S	06/21/1214:15	06/21/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLF003SB PLF003SL PLF003SC  
LAB FILE ID: MF26005 MF26006 MF26007  
DATE EXTRACTED: 06/25/1215:34 06/25/1215:34 06/25/1215:34 DATE COLLECTED: NA  
DATE ANALYZED: 06/26/1211:11 06/26/1211:25 06/26/1211:40 DATE RECEIVED: 06/25/12  
PREP. BATCH: PLF003S PLF003S PLF003S  
CALIB. REF: MF26004 MF26004 MF26004

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	28.8	115	25.0	27.7	111	4	85-115	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F162  
 =====

Matrix : WATER  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCF023WB	ND	1	NA	0.200	0.100	06/22/1212:44	NA	IF22003	IF22001	HCF023W	NA	NA
MBLK1W	HCF023WQ	ND	1	NA	0.200	0.100	06/22/1212:55	NA	IF22004	IF22001	HCF023W	NA	NA
LCS1W	HCF023WL	1.93	1	NA	0.200	0.100	06/22/1213:26	NA	IF22007	IF22001	HCF023W	NA	NA
LCS1W	HCF023WX	1.91	1	NA	0.200	0.100	06/22/1213:36	NA	IF22008	IF22001	HCF023W	NA	NA
LCD1W	HCF023WC	1.91	1	NA	0.200	0.100	06/22/1213:47	NA	IF22009	IF22001	HCF023W	NA	NA
LCD1W	HCF023WY	1.90	1	NA	0.200	0.100	06/22/1213:57	NA	IF22010	IF22001	HCF023W	NA	NA
EB2-062112	F162-01	ND	1	NA	0.200	0.100	06/22/1213:05	NA	IF22005	IF22001	HCF023W	06/21/1215:00	06/21/12
EB2-062112	F162-01R	ND	1	NA	0.200	0.100	06/22/1213:15	NA	IF22006	IF22001	HCF023W	06/21/1215:00	06/21/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCF023WB HCF023WL HCF023WC  
LAB FILE ID: IF22003 IF22007 IF22009  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/22/1212:44 06/22/1213:26 06/22/1213:47 DATE RECEIVED: NA  
PREP. BATCH: HCF023W HCF023W HCF023W  
CALIB. REF: IF22001 IF22001 IF22001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.93	96	2.00	1.91	95	1	80-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F162  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCF023WQ HCF023WX HCF023WY  
LAB FILE ID: IF22004 IF22008 IF22010  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/22/1212:55 06/22/1213:36 06/22/1213:57 DATE RECEIVED: NA  
PREP. BATCH: HCF023W HCF023W HCF023W  
CALIB. REF: IF22001 IF22001 IF22001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.91	96	2.00	1.90	95	1	80-120	20

METHOD 9040C  
PH

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F162  
 =====

Matrix : WATER  
 Instrument ID : 53  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB2-062112	F162-01	5.79	1	NA	NA	NA	06/21/1218:55	NA	12PHF023W01	12PHF023	PHF023W	06/21/1215:00	06/21/12
EB2-062112DUP	F162-01D	5.73	1	NA	NA	NA	06/21/1218:59	NA	12PHF023W02	12PHF023	PHF023W	06/21/1215:00	06/21/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.: 12F162                                      DATE RECEIVED: 06/21/12  
SAMPLE ID: EB2-062112DUP                              DATE EXTRACTED: NA  
CONTROL NO.: F162-01D                                      DATE ANALYZED: 06/21/12 18:59

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
-----	-----	-----	-----	-----
pH	5.79	5.73	0.06	+/-0.10

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F162  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-600-SA5C-SB-4.0-5.0	F162-04	7.71	1	NA	NA	NA	06/22/1214:18	06/22/1211:20	12PHF024S01	12PHF024	PHF024S	06/21/1209:35	06/21/12
SL-603-SA5C-SB-4.0-5.0	F162-07	8.97	1	NA	NA	NA	06/22/1214:20	06/22/1211:20	12PHF024S02	12PHF024	PHF024S	06/21/1211:05	06/21/12
SL-584-SA5C-SB-4.0-5.0	F162-10	8.49	1	NA	NA	NA	06/22/1214:21	06/22/1211:20	12PHF024S03	12PHF024	PHF024S	06/21/1210:35	06/21/12
SL-584-SA5C-SB-4.0-5.0	DUP F162-10D	8.45	1	NA	NA	NA	06/22/1214:22	06/22/1211:20	12PHF024S04	12PHF024	PHF024S	06/21/1210:35	06/21/12
SL-599-SA5C-SB-4.0-5.0	F162-11	9.06	1	NA	NA	NA	06/22/1214:24	06/22/1211:20	12PHF024S05	12PHF024	PHF024S	06/21/1210:00	06/21/12
SL-585-SA5C-SB-4.0-5.0	F162-15	9.26	1	NA	NA	NA	06/22/1214:26	06/22/1211:20	12PHF024S06	12PHF024	PHF024S	06/21/1208:25	06/21/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====  
BATCH NO.: 12F162                      DATE RECEIVED: 06/21/12  
SAMPLE ID: SL-584-SA5C-SB-4.0-5.0DUP    DATE EXTRACTED: 06/22/12 11:20  
CONTROL NO.: F162-10D                  DATE ANALYZED: 06/22/12 14:22

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.49	8.45	0.04	+/-0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/26/12
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F197                           Date Extracted: 07/03/12 11:14
Sample ID    : SL-581-SA5C-SB-4.0-5.0          Date Analyzed: 07/06/12 14:25
Lab Samp ID  : F197-01                          Dilution Factor: 1
Lab File ID  : RGH130                           Matrix          : SOIL
Ext Btch ID  : SVG005S                          % Moisture     : 11.5
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	691	1130	61.1	40-130
2-FLUOROBIPHENYL	628	1130	55.5	45-130
TERPHENYL-D14	967	1130	85.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/26/12
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F197                           Date Extracted: 07/03/12 11:14
Sample ID    : SL-881-SA5C-SB-4.0-5.0          Date Analyzed: 07/06/12 14:44
Lab Samp ID  : F197-03                           Dilution Factor: 1
Lab File ID  : RGH131                            Matrix          : SOIL
Ext Btch ID  : SVG005S                           % Moisture     : 11.5
Calib. Ref.  : RPH072                            Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	684	1130	60.5	40-130
2-FLUOROBIPHENYL	596	1130	52.7	45-130
TERPHENYL-D14	1020	1130	90.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/26/12
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F197                           Date Extracted: 07/03/12 11:14
Sample ID    : SL-747-SA5C-SB-2.5-3.5          Date Analyzed: 07/06/12 15:04
Lab Samp ID  : F197-05                           Dilution Factor: 1
Lab File ID  : RGH132                             Matrix          : SOIL
Ext Btch ID  : SVG005S                            % Moisture     : 8.8
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	769	1096	70.2	40-130
2-FLUOROBIPHENYL	709	1096	64.7	45-130
TERPHENYL-D14	1060	1096	96.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/03/12
Batch No.    : 12F197                           Date Extracted: 07/03/12 11:14
Sample ID    : MBLK1S                           Date Analyzed: 07/05/12 12:50
Lab Samp ID  : SVG005SB                         Dilution Factor: 1
Lab File ID  : RGH087                           Matrix          : SOIL
Ext Btch ID  : SVG005S                          % Moisture     : NA
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	786	1000	78.6	40-130
2-FLUOROBIPHENYL	778	1000	77.8	45-130
TERPHENYL-D14	931	1000	93.1	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVG005SB SVG005SL SVG005SC  
LAB FILE ID: RGH087 RGH088 RGH089  
DATE EXTRACTED: 07/03/1211:14 07/03/1211:14 07/03/1211:14 DATE COLLECTED: NA  
DATE ANALYZED: 07/05/1212:50 07/05/1213:09 07/05/1213:28 DATE RECEIVED: 07/03/12  
PREP. BATCH: SVG005S SVG005S SVG005S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	320	96	333	335	100	5	10-130	50
Acenaphthylene	ND	333	340	102	333	358	107	5	20-130	50
Anthracene	ND	333	307	92	333	314	94	2	20-130	50
Benzo (a) anthracene	ND	333	363	109	333	365	109	0	30-130	50
Benzo (a) pyrene	ND	333	360	108	333	363	109	1	30-130	50
Benzo (b) fluoranthene	ND	333	387	116	333	393	118	2	40-130	50
Benzo (k) fluoranthene	ND	333	367	110	333	363	109	1	30-140	50
Benzo (g, h, i) perylene	ND	333	379	114	333	386	116	2	30-140	50
Chrysene	ND	333	356	107	333	355	107	0	30-140	50
Dibenzo (a, h) anthracene	ND	333	392	118	333	398	119	2	40-140	50
Fluoranthene	ND	333	361	108	333	364	109	1	30-130	50
Fluorene	ND	333	341	102	333	352	106	3	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	392	118	333	399	120	2	20-160	50
Naphthalene	ND	333	299	90	333	314	94	5	10-130	50
Phenanthrene	ND	333	310	93	333	320	96	3	20-130	50
2-Methylnaphthalene	ND	333	318	96	333	336	101	5	30-150	50
1-Methylnaphthalene	ND	333	321	96	333	338	101	5	30-150	50
N-Nitrosodimethylamine	ND	333	278	83	333	290	87	4	30-150	50
Pyrene	ND	333	352	106	333	354	106	0	20-150	50
Azobenzene	ND	333	274	82	333	288	86	5	30-150	50
Benzo (e) pyrene	ND	333	325	98	333	321	96	1	30-150	50
Biphenyl	ND	333	248	74	333	256	77	3	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	1000	782	78	1000	793	79	40-130
2-Fluorobiphenyl	1000	780	78	1000	792	79	45-130
Terphenyl-d14	1000	952	95	1000	913	91	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 11.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
LAB SAMP ID: F197-01 F197-01M F197-01S  
LAB FILE ID: RGH130 RGH128 RGH129  
DATE EXTRACTED: 07/03/1211:14 07/03/1211:14 07/03/1211:14 DATE COLLECTED: 06/26/12  
DATE ANALYZED: 07/06/1214:25 07/06/1213:47 07/06/1214:06 DATE RECEIVED: 06/26/12  
PREP. BATCH: SVG005S SVG005S SVG005S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	377	354	94	377	390	104	10	10-130	50
Acenaphthylene	ND	377	375	99	377	415	110	10	20-130	50
Anthracene	ND	377	366	97	377	385	102	5	20-130	50
Benzo (a) anthracene	ND	377	451	120	377	433	115	4	30-130	50
Benzo (a) pyrene	ND	377	410	109	377	438	116	7	30-130	50
Benzo (b) fluoranthene	ND	377	478	127	377	490	130	2	30-130	50
Benzo (k) fluoranthene	ND	377	409	109	377	445	118	8	30-130	50
Benzo (g, h, i) perylene	ND	377	438	116	377	467	124	6	30-140	50
Chrysene	ND	377	440	117	377	422	112	4	20-130	50
Dibenzo (a, h) anthracene	ND	377	457	121	377	485	129	6	30-130	50
Fluoranthene	ND	377	449	119	377	454	120	1	30-150	50
Fluorene	ND	377	388	103	377	424	113	9	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	377	455	121	377	484	129	6	20-160	50
Naphthalene	ND	377	315	84	377	344	91	9	10-130	50
Phenanthrene	ND	377	382	101	377	402	107	5	20-130	50
2-Methylnaphthalene	ND	377	344	91	377	379	101	9	30-150	50
1-Methylnaphthalene	ND	377	347	92	377	382	101	10	30-150	50
N-Nitrosodimethylamine	ND	377	306	81	377	331	88	8	20-150	50
Pyrene	ND	377	438	116	377	438	116	0	10-160	50
Azobenzene	ND	377	319	85	377	341	90	7	30-150	50
Benzo (e) pyrene	ND	377	362	96	377	377	100	4	30-150	50
Biphenyl	ND	377	252	67	377	268	71	6	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	1130	743	66	1130	776	69	40-130
2-Fluorobiphenyl	1130	700	62	1130	737	65	45-130
Terphenyl-d14	1130	1050	93	1130	1010	90	45-135

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 06/26/12
Project    : SSFL PHASE 3                       Date Received: 06/26/12
Batch No.  : 12F197                             Date Extracted: 06/29/12 04:02
Sample ID: SL-581-SA5C-SB-5.0                 Date Analyzed: 06/29/12 04:02
Lab Samp ID: F197-02                          Dilution Factor: 1.01
Lab File ID: EF28022A                         Matrix          : SOIL
Ext Btch ID: GMF020S                          % Moisture     : 11.2
Calib. Ref.: EF28014A                         Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.57

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	1.86	2.275	81.6	70-140

RL : Reporting Limit  
 Methanol Extraction: 06/27/12 14:12

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/26/12
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F197                           Date Extracted: 06/29/12 02:35
Sample ID    : SL-881-SA5C-SB-5.0              Date Analyzed: 06/29/12 02:35
Lab Samp ID  : F197-04                         Dilution Factor: 1.09
Lab File ID  : EF28020A                       Matrix          : SOIL
Ext Btch ID  : GMF020S                        % Moisture     : 11.3
Calib. Ref.  : EF28014A                       Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.61
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.06	2.458	83.9 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/27/12 14:12

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/26/12
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F197                           Date Extracted: 06/29/12 03:19
Sample ID:   SL-747-SA5C-SB-3.5                Date Analyzed: 06/29/12 03:19
Lab Samp ID: F197-06                           Dilution Factor: 0.95
Lab File ID: EF28021A                          Matrix          : SOIL
Ext Btch ID: GMF020S                            % Moisture     : 8.9
Calib. Ref.: EF28014A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.52
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.76	2.086	84.4 70-140

RL : Reporting Limit  
 Methanol Extraction: 06/27/12 14:12

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/28/12
Batch No.    : 12F197                             Date Extracted: 06/28/12 14:16
Sample ID    : MBLK1S                             Date Analyzed: 06/28/12 14:16
Lab Samp ID  : GMF020SB                           Dilution Factor: 1
Lab File ID  : EF28003A                           Matrix          : SOIL
Ext Btch ID  : GMF020S                             % Moisture     : NA
Calib. Ref.  : EF28002A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.75	2.000	87.3 60-130

RL : Reporting Limit  
 Methanol Extraction: 06/27/12 14:12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMF020SB GMF020SL GMF020SC  
LAB FILE ID: EF28003A EF28004A EF28005A  
DATE EXTRACTED: 06/28/1214:16 06/28/1214:59 06/28/1215:43 DATE COLLECTED: NA  
DATE ANALYZED: 06/28/1214:16 06/28/1214:59 06/28/1215:43 DATE RECEIVED: 06/28/12  
PREP. BATCH: GMF020S GMF020S GMF020S  
CALIB. REF: EF28002A EF28002A EF28002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	21.3	85	25.0	21.8	87	3	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.14	107	2.00	2.14	107	60-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: 11.2  
DILUTION FACTOR: 1.01 1.1 1.1  
SAMPLE ID: SL-581-SA5C-SB-5.0  
LAB SAMP ID: F197-02 F197-02M F197-02S  
LAB FILE ID: EF28022A EF28023A EF28024A  
DATE EXTRACTED: 06/29/1204:02 06/29/1204:46 06/29/1205:29 DATE COLLECTED: 06/26/12  
DATE ANALYZED: 06/29/1204:02 06/29/1204:46 06/29/1205:29 DATE RECEIVED: 06/26/12  
PREP. BATCH: GMF020S GMF020S GMF020S  
CALIB. REF: EF28014A EF28014A EF28014A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	31.0	22.5	73	31.0	26.4	85	16	50-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.48	2.47	100	2.48	2.70	109	70-140

METHOD 5030B/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client      : CDM                               Date Collected: 06/26/12
Project     : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.   : 12F197                           Date Extracted: 06/29/12 16:22
Sample ID   : TB-062612                        Date Analyzed: 06/29/12 16:22
Lab Samp ID : F197-07                          Dilution Factor: 1
Lab File ID : EF28039A                         Matrix          : WATER
Ext Btch ID : VG39F14                          % Moisture     : NA
Calib. Ref. : EF28036A                         Instrument ID   : GCT039
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	26J	50	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
4-BROMOFLUOROBENZENE	33.8	40.00	84.6	60-140

RL : Reporting Limit  
Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 06/29/12
Batch No.    : 12F197                             Date Extracted: 06/29/12 06:57
Sample ID    : MBLK1W                             Date Analyzed: 06/29/12 06:57
Lab Samp ID  : VG39F14B                           Dilution Factor: 1
Lab File ID  : EF28026A                           Matrix          : WATER
Ext Btch ID  : VG39F14                             % Moisture      : NA
Calib. Ref.  : EF28025A                           Instrument ID    : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	33.0	40.00	82.5 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39F14B VG39F14L VG39F14C  
LAB FILE ID: EF28026A EF28027A EF28028A  
DATE EXTRACTED: 06/29/1206:57 06/29/1207:41 06/29/1208:24 DATE COLLECTED: NA  
DATE ANALYZED: 06/29/1206:57 06/29/1207:41 06/29/1208:24 DATE RECEIVED: 06/29/12  
PREP. BATCH: VG39F14 VG39F14 VG39F14  
CALIB. REF: EF28025A EF28025A EF28025A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	406	81	500	435	87	7	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	40.4	101	40.0	42.4	106	60-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/26/12
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F197                           Date Extracted: 07/02/12 10:22
Sample ID:   SL-581-SA5C-SB-4.0-5.0            Date Analyzed: 07/02/12 22:17
Lab Samp ID: F197-01                            Dilution Factor: 1
Lab File ID: LG02029A                          Matrix          : SOIL
Ext Btch ID: DSG001S                            % Moisture     : 11.5
Calib. Ref.: LG02027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	65.0	113.0	57.5	50-150
HEXACOSANE	28.9	28.25	102	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/26/12
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F197                           Date Extracted: 07/02/12 10:22
Sample ID    : SL-881-SA5C-SB-4.0-5.0          Date Analyzed: 07/02/12 23:08
Lab Samp ID  : F197-03                           Dilution Factor: 1
Lab File ID  : LG02032A                          Matrix          : SOIL
Ext Btch ID  : DSG001S                           % Moisture     : 11.5
Calib. Ref.  : LG02027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	67.1	113.0	59.4	50-150
HEXACOSANE	28.3	28.25	100	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/26/12
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F197                           Date Extracted: 07/02/12 10:22
Sample ID:   SL-747-SA5C-SB-2.5-3.5           Date Analyzed: 07/02/12 23:25
Lab Samp ID: F197-05                           Dilution Factor: 1
Lab File ID: LG02033A                          Matrix          : SOIL
Ext Btch ID: DSG001S                            % Moisture     : 8.8
Calib. Ref.: LG02027A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	66.1	109.6	60.3	50-150
HEXACOSANE	27.5	27.41	100	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/02/12
Batch No.    : 12F197                           Date Extracted: 07/02/12 10:22
Sample ID    : MBLK1S                           Date Analyzed: 07/02/12 18:17
Lab Samp ID  : DSG001SB                         Dilution Factor: 1
Lab File ID  : LG02015A                         Matrix          : SOIL
Ext Btch ID  : DSG001S                          % Moisture      : NA
Calib. Ref.  : LG02005A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.4	100.0	76.4	50-150
HEXACOSANE	25.7	25.00	103	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSG001SB DSG001SL DSG001SC  
LAB FILE ID: LG02015A LG02013A LG02014A  
DATE EXTRACTED: 07/02/1210:22 07/02/1210:22 07/02/1210:22 DATE COLLECTED: NA  
DATE ANALYZED: 07/02/1218:17 07/02/1217:43 07/02/1218:00 DATE RECEIVED: 07/02/12  
PREP. BATCH: DSG001S DSG001S DSG001S  
CALIB. REF: LG02005A LG02005A LG02005A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	460	92	500	434	87	6	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	82.6	83	100	82.7	83	50-150
Hexacosane	25.0	26.1	104	25.0	26.9	108	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
LAB SAMP ID: F197-01 F197-01M F197-01S  
LAB FILE ID: LG02029A LG02030A LG02031A  
DATE EXTRACTED: 07/02/1210:22 07/02/1210:22 07/02/1210:22 DATE COLLECTED: 06/26/12  
DATE ANALYZED: 07/02/1222:17 07/02/1222:34 07/02/1222:51 DATE RECEIVED: 06/26/12  
PREP. BATCH: DSG001S DSG001S DSG001S  
CALIB. REF: LG02027A LG02027A LG02027A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	565	459	81	565	485	86	6	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	113	78.4	69	113	78.2	69	50-150
Hexacosane	28.2	27.5	98	28.2	28.6	101	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/26/12
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F197                           Date Extracted: 07/06/12 15:21
Sample ID    : SL-581-SA5C-SB-4.0-5.0          Date Analyzed: 07/10/12 13:05
Lab Samp ID  : F197-01                          Dilution Factor: 1
Lab File ID  : SG10008A                         Matrix          : SOIL
Ext Btch ID  : CPF012S                          % Moisture     : 11.5
Calib. Ref.  : SG10002A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	14.54   (17.60)	15.06	96.5   (117)	45-120
TETRACHLORO-M-XYLENE	15.05   (15.29)	15.06	99.9   (102)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/26/12
Project      : SSFL PHASE 3                     Date Received: 06/26/12
Batch No.    : 12F197                           Date Extracted: 07/06/12 15:21
Sample ID    : SL-881-SA5C-SB-4.0-5.0          Date Analyzed: 07/10/12 14:53
Lab Samp ID  : F197-03                          Dilution Factor: 1
Lab File ID  : SG10011A                         Matrix          : SOIL
Ext Btch ID  : CPF012S                          % Moisture     : 11.5
Calib. Ref.  : SG10002A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(16.58)   19.77	15.06	(110)   131*	45-120
TETRACHLORO-M-XYLENE	(14.67)   14.60	15.06	(97.4)   96.9	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/26/12
Project      : SSFL PHASE 3                       Date Received: 06/26/12
Batch No.    : 12F197                             Date Extracted: 07/06/12 15:21
Sample ID    : SL-747-SA5C-SB-2.5-3.5           Date Analyzed: 07/10/12 15:28
Lab Samp ID  : F197-05                           Dilution Factor: 1
Lab File ID  : SG10012A                          Matrix          : SOIL
Ext Btch ID  : CPF012S                            % Moisture     : 8.8
Calib. Ref.  : SG10002A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	13.71   (16.78)	14.62	93.8   (115)	45-120
TETRACHLORO-M-XYLENE	(13.86)   13.63	14.62	(94.8)   93.3	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 07/06/12
Batch No.  : 12F197                           Date Extracted: 07/06/12 15:21
Sample ID  : MBLK1S                           Date Analyzed: 07/10/12 11:19
Lab Samp ID: 60G012SB                        Dilution Factor: 1
Lab File ID: SG10005A                       Matrix          : SOIL
Ext Btch ID: CPF012S                         % Moisture     : NA
Calib. Ref.: SG10002A                       Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.66   (13.41)	13.33	87.5   (101)	45-120
TETRACHLORO-M-XYLENE	11.39   (11.68)	13.33	85.4   (87.6)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60G012SB 60G012SL 60G012SC  
LAB FILE ID: SG10005A SG10006A SG10007A  
DATE EXTRACTED: 07/06/1215:21 07/06/1215:21 07/06/1215:21 DATE COLLECTED: NA  
DATE ANALYZED: 07/10/1211:19 07/10/1211:54 07/10/1212:29 DATE RECEIVED: 07/06/12  
PREP. BATCH: CPF012S CPF012S CPF012S  
CALIB. REF: SG10002A SG10002A SG10002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	155   (165)	93   (99)	167	144   (157)	86   (94)	7   (5)	50-130	50
Aroclor 1260	(ND)   ND	167	185   (208)	111   (125)	167	183   (205)	110   (123)	1   (1)	60-150	50
Aroclor 5460	(ND)   ND	83.3	93.0   (101)	112   (121)	83.3	88.2   (96.7)	106   (116)	5   (4)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	13.87   (16.03)	104   (120)	13.33	13.56   (15.76)	102   (118)	45-120
Tetrachloro-m-xylene	13.33	(12.88)   12.64	(96.6)   94.8	13.33	(11.38)   11.13	(85.4)   83.5	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 11.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
LAB SAMP ID: F197-01 F197-01M F197-01S  
LAB FILE ID: SG10008A SG10009A SG10010A  
DATE EXTRACTED: 07/06/1215:21 07/06/1215:21 07/06/1215:21 DATE COLLECTED: 06/26/12  
DATE ANALYZED: 07/10/1213:05 07/10/1213:40 07/10/1214:15 DATE RECEIVED: 06/26/12  
PREP. BATCH: CPF012S CPF012S CPF012S  
CALIB. REF: SG10002A SG10002A SG10002A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	188	179   (194)	95   (103)	188	164   (172)	87   (91)	9   (12)	20-160	50
Aroclor 1260	(ND)   ND	188	200   (230)	106   (122)	188	199   (227)	106   (121)	1   (1)	20-160	50
Aroclor 5460	(ND)   ND	94.2	102   (107)	108   (114)	94.2	109   (114)	116   (121)	7   (6)	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	15.06	(15.13)   18.39	(100)   122*	15.06	(15.48)   18.66	(103)   124*	45-120
Tetrachloro-m-xylene	15.06	(15.59)   15.20	(103)   101	15.06	(14.78)   14.29	(98.2)   94.9	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/26/12
Project     : SSFL PHASE 3                     Date Received: 06/26/12
SDG NO.    : 12F197                           Date Extracted: 07/03/12 11:30
Sample ID:  SL-581-SA5C-SB-4.0-5.0           Date Analyzed: 07/11/12 15:38
Lab Samp ID: F197-01                          Dilution Factor: 0.985
Lab File ID: 98G03033                         Matrix          : SOIL
Ext Btch ID: IMG004S                          % Moisture     : 11.5
Calib. Ref.: 98G03028                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17000	111	13.4
Antimony	0.181J	0.556	0.111
Arsenic	3.74	0.556	0.223
Barium	136	0.556	0.223
Beryllium	0.761	0.556	0.0556
Boron	3.74J	5.56	2.78
Cadmium	0.301J	0.556	0.0556
Calcium	97400	22.3	11.1
Chromium	20.3	0.556	0.223
Cobalt	5.32	0.556	0.0556
Copper	6.19	0.556	0.223
Iron	19700	111	11.1
Lead	5.56	0.556	0.111
Magnesium	4350	11.1	5.56
Manganese	195	0.556	0.278
Molybdenum	0.138J	0.556	0.0556
Nickel	11.9	0.556	0.223
Potassium	1270	111	33.4
Selenium	ND	0.556	0.223
Silver	0.0705J	0.556	0.0556
Sodium	510	111	55.6
Strontium	137	0.556	0.278
Thallium	0.185J	0.445	0.0556
Tin	ND	11.1	5.56
Titanium	670	1.11	0.556
Vanadium	33.9	0.556	0.0556
Zinc	41.4	5.56	1.67
Lithium	23.1	2.23	1.11
Phosphorus	83.3	13.4	6.68
Zirconium	ND	5.56	2.78

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/26/12
Project     : SSFL PHASE 3                     Date Received: 06/26/12
SDG NO.    : 12F197                           Date Extracted: 07/03/12 11:30
Sample ID   : SL-881-SA5C-SB-4.0-5.0          Date Analyzed: 07/06/12 20:15
Lab Samp ID: F197-03                           Dilution Factor: 0.976
Lab File ID: 98G02048                          Matrix          : SOIL
Ext Btch ID: IMG004S                            % Moisture     : 11.5
Calib. Ref.: 98G02046                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15900	110	13.2
Antimony	0.183J	0.551	0.110
Arsenic	3.42	0.551	0.221
Barium	131	0.551	0.221
Beryllium	0.750	0.551	0.0551
Boron	3.57J	5.51	2.76
Cadmium	0.293J	0.551	0.0551
Calcium	103000	22.1	11.0
Chromium	20.2	0.551	0.221
Cobalt	4.92	0.551	0.0551
Copper	6.09	0.551	0.221
Iron	19200	110	11.0
Lead	5.06	0.551	0.110
Magnesium	4230	11.0	5.51
Manganese	204	0.551	0.276
Molybdenum	0.135J	0.551	0.0551
Nickel	11.8	0.551	0.221
Potassium	1150	110	33.1
Selenium	ND	0.551	0.221
Silver	0.0722J	0.551	0.0551
Sodium	498	110	55.1
Strontium	147	0.551	0.276
Thallium	0.180J	0.441	0.0551
Tin	ND	11.0	5.51
Titanium	639	1.10	0.551
Vanadium	31.3	0.551	0.0551
Zinc	42.0	5.51	1.65
Lithium	21.2	2.21	1.10
Phosphorus	80.1	13.2	6.62
Zirconium	ND	5.51	2.76

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/26/12
Project     : SSFL PHASE 3                     Date Received: 06/26/12
SDG NO.    : 12F197                           Date Extracted: 07/03/12 11:30
Sample ID:  SL-747-SA5C-SB-2.5-3.5           Date Analyzed: 07/06/12 20:19
Lab Samp ID: F197-05                          Dilution Factor: 0.985
Lab File ID: 98G02049                         Matrix          : SOIL
Ext Btch ID: IMG004S                           % Moisture     : 8.8
Calib. Ref.: 98G02046                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18600	108	13.0
Antimony	0.240J	0.540	0.108
Arsenic	5.92	0.540	0.216
Barium	149	0.540	0.216
Beryllium	0.856	0.540	0.0540
Boron	ND	5.40	2.70
Cadmium	0.252J	0.540	0.0540
Calcium	3400	21.6	10.8
Chromium	21.6	0.540	0.216
Cobalt	9.78	0.540	0.0540
Copper	7.67	0.540	0.216
Iron	21700	108	10.8
Lead	7.52	0.540	0.108
Magnesium	4090	10.8	5.40
Manganese	519	0.540	0.270
Molybdenum	0.263J	0.540	0.0540
Nickel	15.4	0.540	0.216
Potassium	1470	108	32.4
Selenium	ND	0.540	0.216
Silver	0.0575J	0.540	0.0540
Sodium	141	108	54.0
Strontium	29.4	0.540	0.270
Thallium	0.253J	0.432	0.0540
Tin	ND	10.8	5.40
Titanium	662	1.08	0.540
Vanadium	44.3	0.540	0.0540
Zinc	43.2	5.40	1.62
Lithium	23.7	2.16	1.08
Phosphorus	80.4	13.0	6.48
Zirconium	ND	5.40	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 07/03/12
SDG NO.    : 12F197                           Date Extracted: 07/03/12 11:30
Sample ID: MBLK1S                             Date Analyzed: 07/06/12 19:20
Lab Samp ID: IMG004SB                         Dilution Factor: 1
Lab File ID: 98G02036                         Matrix          : SOIL
Ext Btch ID: IMG004S                           % Moisture     : NA
Calib. Ref.: 98G02034                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F197  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMG004SB IMG004SL IMG004SC  
LAB FILE ID: 98G02036 98G02037 98G02038  
DATIME EXTRCTD: 07/03/1211:30 07/03/1211:30 07/03/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 07/06/1219:20 07/06/1219:25 07/06/1219:29 DATE RECEIVED: 07/03/12  
PREP. BATCH: IMG004S IMG004S IMG004S  
CALIB. REF: 98G02034 98G02034 98G02034

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2460	98	2500	2260	90	8	80-120	20
Antimony	ND	25.0	24.6	98	25.0	23.2	93	6	80-120	20
Arsenic	ND	25.0	23.7	95	25.0	22.1	88	7	80-120	20
Barium	ND	25.0	24.1	96	25.0	22.6	90	6	80-120	20
Beryllium	ND	25.0	24.6	99	25.0	22.9	91	8	80-120	20
Boron	ND	25.0	25.5	102	25.0	25.0	100	2	80-120	20
Cadmium	ND	25.0	24.3	97	25.0	23.5	94	3	80-120	20
Calcium	ND	2500	2540	102	2500	2370	95	7	80-120	20
Chromium	ND	25.0	23.7	95	25.0	21.9	88	8	80-120	20
Cobalt	ND	25.0	24.4	97	25.0	22.4	89	9	80-120	20
Copper	ND	25.0	23.5	94	25.0	21.9	88	7	80-120	20
Iron	ND	2500	2490	99	2500	2330	93	7	80-120	20
Lead	ND	25.0	24.4	98	25.0	23.5	94	4	80-120	20
Magnesium	ND	2500	2450	98	2500	2290	92	7	80-120	20
Manganese	ND	25.0	24.9	99	25.0	22.8	91	9	80-120	20
Molybdenum	ND	25.0	23.6	95	25.0	22.4	90	5	80-120	20
Nickel	ND	25.0	23.4	94	25.0	21.5	86	8	80-120	20
Potassium	ND	2500	2420	97	2500	2240	90	8	80-120	20
Selenium	ND	25.0	23.1	92	25.0	21.8	87	6	80-120	20
Silver	ND	25.0	24.4	97	25.0	24.4	98	0	80-120	20
Sodium	ND	2500	2520	101	2500	2340	94	7	80-120	20
Strontium	ND	25.0	23.9	96	25.0	22.3	89	7	80-120	20
Thallium	ND	25.0	23.9	96	25.0	23.6	94	1	80-120	20
Tin	ND	25.0	26.5	106	25.0	25.3	101	5	80-120	20
Titanium	ND	25.0	24.2	97	25.0	22.3	89	8	80-120	20
Vanadium	ND	25.0	23.6	94	25.0	21.9	88	8	80-120	20
Zinc	ND	50.0	47.3	95	50.0	45.2	90	5	80-120	20
Lithium	ND	25.0	24.2	97	25.0	22.6	90	7	80-120	20
Phosphorus	ND	250	224	90	250	212	85	6	80-120	20
Zirconium	ND	25.0	24.3	97	25.0	22.6	90	8	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F197  
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 11.5  
DILT N FACTR: 0.985 0.962 0.985  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
CONTROL NO.: F197-01 F197-01M F197-01S  
LAB FILE ID: 98G03033 98G03030 98G03031  
DATIME EXTRACTD: 07/03/1211:30 07/03/1211:30 07/03/1211:30 DATE COLLECTED: 06/26/12  
DATIME ANALYZD: 07/11/1215:38 07/11/1215:24 07/11/1215:29 DATE RECEIVED: 06/26/12  
PREP. BATCH: IMG004S IMG004S IMG004S  
CALIB. REF: 98G03028 98G03028 98G03028

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	17000	2720	19400	89	2780	16500	-18*	16	75-125	20
Antimony	0.181J	27.2	16.1	59*	27.8	19.6	70*	20	75-125	20
Arsenic	3.74	27.2	29.0	93	27.8	28.2	88	3	75-125	20
Barium	136	27.2	168	115	27.8	143	23*	16	75-125	20
Beryllium	0.761	27.2	31.4	113	27.8	29.8	104	5	75-125	20
Boron	3.74J	27.2	30.8	100	27.8	30.8	97	0	75-125	20
Cadmium	0.301J	27.2	25.9	94	27.8	25.8	92	1	75-125	20
Calcium	97400	2720	100000	102	2780	108000	378*	7	75-125	20
Chromium	20.3	27.2	44.3	88	27.8	40.6	73*	9	75-125	20
Cobalt	5.32	27.2	29.2	88	27.8	28.2	82	3	75-125	20
Copper	6.19	27.2	28.5	82	27.8	27.4	76	4	75-125	20
Iron	19700	2720	22200	92	2780	20000	9*	11	75-125	20
Lead	5.56	27.2	31.5	96	27.8	31.1	92	1	75-125	20
Magnesium	4350	2720	6510	80	2780	5950	57*	9	75-125	20
Manganese	195	27.2	218	85	27.8	206	39*	6	75-125	20
Molybdenum	0.138J	27.2	25.7	94	27.8	25.2	90	2	75-125	20
Nickel	11.9	27.2	34.6	84	27.8	33.0	76	5	75-125	20
Potassium	1270	2720	3910	97	2780	3810	91	3	75-125	20
Selenium	ND	27.2	24.7	91	27.8	24.9	89	1	75-125	20
Silver	0.0705J	27.2	25.2	93	27.8	25.7	92	2	75-125	20
Sodium	510	2720	2960	90	2780	2900	86	2	75-125	20
Strontium	137	27.2	162	93	27.8	165	101	2	75-125	20
Thallium	0.185J	27.2	26.7	98	27.8	26.9	96	0	75-125	20
Tin	ND	27.2	29.7	109	27.8	28.7	103	3	75-125	20
Titanium	670	27.2	715	166*	27.8	595	-270*	18	75-125	20
Vanadium	33.9	27.2	58.5	91	27.8	54.0	72*	8	75-125	20
Zinc	41.4	54.4	88.9	87	55.6	85.7	80	4	75-125	20
Lithium	23.1	27.2	51.4	104	27.8	48.9	93	5	75-125	20
Phosphorus	83.3	272	301	80	278	295	76	2	75-125	20
Zirconium	ND	27.2	26.2	96	27.8	21.3	77	20	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F197  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILTN FACTR: 0.985 0.985  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
CONTROL NO.: F197-01 F197-01A  
LAB FILE ID: 98G03033 98G03032  
DATIME EXTRACTD: 07/03/1211:30 07/03/1211:30 DATE COLLECTED: 06/26/12  
DATIME ANALYZD: 07/11/1215:38 07/11/1215:33 DATE RECEIVED: 06/26/12  
PREP. BATCH: IMG004S IMG004S  
CALIB. REF: 98G03028 98G03028

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	17000	2780	19300	82	75-125
Antimony	0.181J	27.8	26.9	96	75-125
Arsenic	3.74	27.8	29.4	92	75-125
Barium	136	27.8	166	108	75-125
Beryllium	0.761	27.8	30.9	108	75-125
Boron	3.74J	27.8	32.8	104	75-125
Cadmium	0.301J	27.8	26.0	92	75-125
Calcium	97400	2780	98600	42*	75-125
Chromium	20.3	27.8	44.1	85	75-125
Cobalt	5.32	27.8	29.4	87	75-125
Copper	6.19	27.8	28.6	81	75-125
Iron	19700	2780	22200	90	75-125
Lead	5.56	27.8	31.6	94	75-125
Magnesium	4350	2780	6730	85	75-125
Manganese	195	27.8	217	79	75-125
Molybdenum	0.138J	27.8	27.2	97	75-125
Nickel	11.9	27.8	34.4	81	75-125
Potassium	1270	2780	4050	100	75-125
Selenium	ND	27.8	25.5	92	75-125
Silver	0.0705J	27.8	25.6	92	75-125
Sodium	510	2780	3050	91	75-125
Strontium	137	27.8	162	91	75-125
Thallium	0.185J	27.8	26.8	96	75-125
Tin	ND	27.8	29.7	107	75-125
Titanium	670	27.8	685	54*	75-125
Vanadium	33.9	27.8	58.2	87	75-125
Zinc	41.4	55.6	90.3	88	75-125
Lithium	23.1	27.8	51.3	101	75-125
Phosphorus	83.3	278	317	84	75-125
Zirconium	ND	27.8	29.5	106	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 11.5  
DILUTION FACTOR: 0.985 4.93  
SAMPLE ID: SL-581-SA5C-SB SL-581-SA5C-SB  
EMAX SAMP ID: F197-01 F197-01J  
LAB FILE ID: 98G03033 98G03034  
DATE EXTRACTED: 07/03/1211:30 07/03/1211:30 DATE COLLECTED: 06/26/12  
DATE ANALYZED: 07/11/1215:38 07/11/1215:43 DATE RECEIVED: 06/26/12  
PREP. BATCH: IMG004S IMG004S  
CALIB. REF: 98G03028 98G03028

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	17000	18200	7	10
Antimony	0.181J	ND	NA	10
Arsenic	3.74	3.82	2	10
Barium	136	131	4	10
Beryllium	0.761	0.702J	NA	10
Boron	3.74J	ND	NA	10
Cadmium	0.301J	0.320J	NA	10
Calcium	97400	102000	5	10
Chromium	20.3	21.5	6	10
Cobalt	5.32	5.76	8	10
Copper	6.19	6.91	12*	10
Iron	19700	21000	6	10
Lead	5.56	5.65	2	10
Magnesium	4350	4700	8	10
Manganese	195	212	9	10
Molybdenum	0.138J	ND	NA	10
Nickel	11.9	12.9	9	10
Potassium	1270	1360	7	10
Selenium	ND	ND	0	10
Silver	0.0705J	ND	NA	10
Sodium	510	542J	NA	10
Strontium	137	136	0	10
Thallium	0.185J	ND	NA	10
Tin	ND	ND	0	10
Titanium	670	670	0	10
Vanadium	33.9	35.3	4	10
Zinc	41.4	44.1	6	10
Lithium	23.1	21.5	7	10
Phosphorus	83.3	87.1	5	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F197  
=====

Matrix : SOIL  
Instrument ID : TI047  
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SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGG005SB	ND	1	NA	0.100	0.0500	07/05/1217:58	07/05/1213:00	M47G004010	M47G004008	HGG005S	NA	07/05/12
LCS1S	HGG005SL	0.865	1	NA	0.100	0.0500	07/05/1218:00	07/05/1213:00	M47G004011	M47G004008	HGG005S	NA	07/05/12
LCD1S	HGG005SC	0.862	1	NA	0.100	0.0500	07/05/1218:02	07/05/1213:00	M47G004012	M47G004008	HGG005S	NA	07/05/12
SL-581-SA5C-SB-4.0-5.0AS	F197-01A	1.00	0.998	11.5	0.113	0.0564	07/05/1218:26	07/05/1213:00	M47G004023	M47G004020	HGG005S	06/26/12	06/26/12
SL-581-SA5C-SB-4.0-5.0	F197-01	ND	0.998	11.5	0.113	0.0564	07/05/1218:28	07/05/1213:00	M47G004024	M47G004020	HGG005S	06/26/12	06/26/12
SL-581-SA5C-SB-4.0-5.0DL	F197-01J	ND	4.99	11.5	0.564	0.282	07/05/1218:30	07/05/1213:00	M47G004025	M47G004020	HGG005S	06/26/12	06/26/12
SL-581-SA5C-SB-4.0-5.0MS	F197-01M	1.03	0.995	11.5	0.112	0.0562	07/05/1218:32	07/05/1213:00	M47G004026	M47G004020	HGG005S	06/26/12	06/26/12
SL-581-SA5C-SB-4.0-5.0MSDF	F197-01S	1.00	0.988	11.5	0.112	0.0558	07/05/1218:34	07/05/1213:00	M47G004027	M47G004020	HGG005S	06/26/12	06/26/12
SL-881-SA5C-SB-4.0-5.0	F197-03	ND	0.987	11.5	0.112	0.0558	07/05/1218:36	07/05/1213:00	M47G004028	M47G004020	HGG005S	06/26/12	06/26/12
SL-747-SA5C-SB-2.5-3.5	F197-05	ND	0.988	8.8	0.108	0.0542	07/05/1218:38	07/05/1213:00	M47G004029	M47G004020	HGG005S	06/26/12	06/26/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F197  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGG005SB HGG005SL HGG005SC  
LAB FILE ID: M47G004010 M47G004011 M47G004012  
DATIME EXTRCTD: 07/05/1213:00 07/05/1213:00 07/05/1213:00 DATE COLLECTED: NA  
DATIME ANALYZD: 07/05/1217:58 07/05/1218:00 07/05/1218:02 DATE RECEIVED: 07/05/12  
PREP. BATCH: HGG005S HGG005S HGG005S  
CALIB. REF: M47G004008 M47G004008 M47G004008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.865	104	.833	.862	103	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F197  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILTN FACTR: 0.998 0.995 0.988  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
CONTROL NO.: F197-01 F197-01M F197-01S  
LAB FILE ID: M47G004024 M47G004026 M47G004027  
DATIME EXTRCTD: 07/05/1213:00 07/05/1213:00 07/05/1213:00 DATE COLLECTED: 06/26/12  
DATIME ANALYZD: 07/05/1218:28 07/05/1218:32 07/05/1218:34 DATE RECEIVED: 06/26/12  
PREP. BATCH: HGG005S HGG005S HGG005S  
CALIB. REF: M47G004020 M47G004020 M47G004020

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.937	1.03	110	.93	1	108	2	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F197  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
CONTROL NO.: F197-01 F197-01A  
LAB FILE ID: M47G004024 M47G004023  
DATIME EXTRACTD: 07/05/1213:00 07/05/1213:00 DATE COLLECTED: 06/26/12  
DATIME ANALYZD: 07/05/1218:28 07/05/1218:26 DATE RECEIVED: 06/26/12  
PREP. BATCH: HGG005S HGG005S  
CALIB. REF: M47G004020 M47G004020

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.939	1	107	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F197  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	11.5
DILUTION FACTOR:	0.998	4.99		
SAMPLE ID:	SL-581-SA5C-SB-4.0-	SL-581-SA5C-SB-4.0-		
EMAX SAMP ID:	F197-01	F197-01J		
LAB FILE ID:	M47G004024	M47G004025		
DATE EXTRACTED:	07/05/1213:00	07/05/1213:00	DATE COLLECTED:	06/26/12
DATE ANALYZED:	07/05/1218:28	07/05/1218:30	DATE RECEIVED:	06/26/12
PREP. BATCH:	HGG005S	HGG005S		
CALIB. REF:	M47G004020	M47G004020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F197  
 =====

Matrix : SOIL  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLG001SB	ND	1	NA	5.00	2.50	07/05/1218:08	07/05/1211:34	MG05016	MG05014	PLG001S	NA	07/05/12
LCS1S	PLG001SL	23.3	1	NA	5.00	2.50	07/05/1218:22	07/05/1211:34	MG05017	MG05014	PLG001S	NA	07/05/12
LCD1S	PLG001SC	23.8	1	NA	5.00	2.50	07/05/1218:36	07/05/1211:34	MG05018	MG05014	PLG001S	NA	07/05/12
SL-581-SA5C-SB-4.0-5.0	F197-01	ND	1	11.5	5.65	2.82	07/05/1219:33	07/05/1211:34	MG05022	MG05014	PLG001S	06/26/1210:31	06/26/12
SL-581-SA5C-SB-4.0-5.0MS	F197-01M	30.8	1	11.5	5.65	2.82	07/05/1219:47	07/05/1211:34	MG05023	MG05014	PLG001S	06/26/1210:31	06/26/12
SL-581-SA5C-SB-4.0-5.0MSDF	F197-01S	27.7	1	11.5	5.65	2.82	07/05/1220:01	07/05/1211:34	MG05024	MG05014	PLG001S	06/26/1210:31	06/26/12
SL-881-SA5C-SB-4.0-5.0	F197-03	ND	1	11.5	5.65	2.82	07/05/1220:30	07/05/1211:34	MG05026	MG05025	PLG001S	06/26/1210:33	06/26/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLG001SB PLG001SL PLG001SC  
LAB FILE ID: MG05016 MG05017 MG05018  
DATE EXTRACTED: 07/05/1211:34 07/05/1211:34 07/05/1211:34 DATE COLLECTED: NA  
DATE ANALYZED: 07/05/1218:08 07/05/1218:22 07/05/1218:36 DATE RECEIVED: 07/05/12  
PREP. BATCH: PLG001S PLG001S PLG001S  
CALIB. REF: MG05014 MG05014 MG05014

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	23.3	93	25.0	23.8	95	2	85-115	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
LAB SAMP ID: F197-01 F197-01M F197-01S  
LAB FILE ID: MG05022 MG05023 MG05024  
DATE EXTRACTED: 07/05/1211:34 07/05/1211:34 07/05/1211:34 DATE COLLECTED: 06/26/12 10:31  
DATE ANALYZED: 07/05/1219:33 07/05/1219:47 07/05/1220:01 DATE RECEIVED: 06/26/12  
PREP. BATCH: PLG001S PLG001S PLG001S  
CALIB. REF: MG05014 MG05014 MG05014

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	28.2	30.8	109	28.2	27.7	98	11	80-120	20

METHOD 7199  
HEXAVALENT CHROMIUM

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F197

Matrix : SOIL  
Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCG001SB	ND	1	NA	1.00	0.500	07/06/1210:31	07/05/1216:38	IG06003	IG06001	HCG001S	NA	07/05/12
MBLK1S	HCG001SQ	ND	1	NA	1.00	0.500	07/06/1210:41	07/05/1216:38	IG06004	IG06001	HCG001S	NA	07/05/12
LCS1S	CSG001SL	8.59	1	NA	1.00	0.500	07/06/1215:29	07/05/1216:38	IG06007	IG06005	HCG001S	NA	07/05/12
LCS1S	CSG001SX	8.72	1	NA	1.00	0.500	07/06/1215:40	07/05/1216:38	IG06008	IG06005	HCG001S	NA	07/05/12
LCS2S	CIG001SL	178	10	NA	10.0	5.00	07/06/1215:50	07/05/1216:38	IG06009	IG06005	HCG001S	NA	07/05/12
LCS2S	CIG001SX	199	10	NA	10.0	5.00	07/06/1216:00	07/05/1216:38	IG06010	IG06005	HCG001S	NA	07/05/12
SL-581-SA5C-SB-4.0-5.0MS	F197-01M	9.89	1	11.5	1.13	0.565	07/06/1218:44	07/05/1216:38	IG06025	IG06023	HCG001S	06/26/1210:31	06/26/12
SL-581-SA5C-SB-4.0-5.0MS	F197-01M1	9.69	1	11.5	1.13	0.565	07/06/1218:54	07/05/1216:38	IG06026	IG06023	HCG001S	06/26/1210:31	06/26/12
SL-581-SA5C-SB-4.0-5.0MSDF	197-01S	9.89	1	11.5	1.13	0.565	07/06/1219:04	07/05/1216:38	IG06027	IG06023	HCG001S	06/26/1210:31	06/26/12
SL-581-SA5C-SB-4.0-5.0MSDF	197-01S1	10.1	1	11.5	1.13	0.565	07/06/1219:15	07/05/1216:38	IG06028	IG06023	HCG001S	06/26/1210:31	06/26/12
SL-581-SA5C-SB-4.0-5.0MS	F197-01G	328	20	11.5	22.6	11.3	07/06/1219:25	07/05/1216:38	IG06029	IG06023	HCG001S	06/26/1210:31	06/26/12
SL-581-SA5C-SB-4.0-5.0MS	F197-01G1	328	20	11.5	22.6	11.3	07/06/1219:36	07/05/1216:38	IG06030	IG06023	HCG001S	06/26/1210:31	06/26/12
SL-581-SA5C-SB-4.0-5.0MSDF	197-01H	358	20	11.5	22.6	11.3	07/06/1219:46	07/05/1216:38	IG06031	IG06023	HCG001S	06/26/1210:31	06/26/12
SL-581-SA5C-SB-4.0-5.0MSDF	197-01H1	339	20	11.5	22.6	11.3	07/06/1219:56	07/05/1216:38	IG06032	IG06023	HCG001S	06/26/1210:31	06/26/12
SL-581-SA5C-SB-4.0-5.0	F197-01	ND	1	11.5	1.13	0.565	07/06/1220:07	07/05/1216:38	IG06033	IG06023	HCG001S	06/26/1210:31	06/26/12
SL-581-SA5C-SB-4.0-5.0	F197-01R	ND	1	11.5	1.13	0.565	07/06/1220:17	07/05/1216:38	IG06034	IG06023	HCG001S	06/26/1210:31	06/26/12
SL-881-SA5C-SB-4.0-5.0	F197-03	ND	1	11.5	1.13	0.565	07/06/1220:48	07/05/1216:38	IG06037	IG06035	HCG001S	06/26/1210:33	06/26/12
SL-881-SA5C-SB-4.0-5.0	F197-03R	ND	1	11.5	1.13	0.565	07/06/1220:59	07/05/1216:38	IG06038	IG06035	HCG001S	06/26/1210:33	06/26/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: 7199

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=====
```

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCG001SB CSG001SL  
LAB FILE ID: IG06003 IG06007  
DATE EXTRACTED: 07/05/1216:38 07/05/1216:38 DATE COLLECTED: NA  
DATE ANALYZED: 07/06/1210:31 07/06/1215:29 DATE RECEIVED: 07/05/12  
PREP. BATCH: HCG001S HCG001S  
CALIB. REF: IG06001 IG06005

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.59	86	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCG001SQ CSG001SX  
LAB FILE ID: IG06004 IG06008  
DATE EXTRACTED: 07/05/1216:38 07/05/1216:38 DATE COLLECTED: NA  
DATE ANALYZED: 07/06/1210:41 07/06/1215:40 DATE RECEIVED: 07/05/12  
PREP. BATCH: HCG001S HCG001S  
CALIB. REF: IG06001 IG06005

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.72	87	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCG001SB CIG001SL  
LAB FILE ID: IG06003 IG06009  
DATE EXTRACTED: 07/05/1216:38 07/05/1216:38 DATE COLLECTED: NA  
DATE ANALYZED: 07/06/1210:31 07/06/1215:50 DATE RECEIVED: 07/05/12  
PREP. BATCH: HCG001S HCG001S  
CALIB. REF: IG06001 IG06005

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	219	178	81	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCG001SQ CIG001SX  
LAB FILE ID: IG06004 IG06010  
DATE EXTRACTED: 07/05/1216:38 07/05/1216:38 DATE COLLECTED: NA  
DATE ANALYZED: 07/06/1210:41 07/06/1216:00 DATE RECEIVED: 07/05/12  
PREP. BATCH: HCG001S HCG001S  
CALIB. REF: IG06001 IG06005

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	219	199	91	80-120

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
LAB SAMP ID: F197-01 F197-01M F197-01S  
LAB FILE ID: IG06033 IG06025 IG06027  
DATE EXTRACTED: 07/05/1216:38 07/05/1216:38 07/05/1216:38 DATE COLLECTED: 06/26/12 10:31  
DATE ANALYZED: 07/06/1220:07 07/06/1218:44 07/06/1219:04 DATE RECEIVED: 06/26/12  
PREP. BATCH: HCG001S HCG001S HCG001S  
CALIB. REF: IG06023 IG06023 IG06023

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	11.3	9.89	88	11.3	9.89	88	0	75-125	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
LAB SAMP ID: F197-01R F197-01M1 F197-01S1  
LAB FILE ID: IG06034 IG06026 IG06028  
DATE EXTRACTED: 07/05/1216:38 07/05/1216:38 07/05/1216:38 DATE COLLECTED: 06/26/12 10:31  
DATE ANALYZED: 07/06/1220:17 07/06/1218:54 07/06/1219:15 DATE RECEIVED: 06/26/12  
PREP. BATCH: HCG001S HCG001S HCG001S  
CALIB. REF: IG06023 IG06023 IG06023

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	11.3	9.69	86	11.3	10.1	89	4	75-125	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILUTION FACTOR: 1 20 20  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
LAB SAMP ID: F197-01 F197-01G F197-01H  
LAB FILE ID: IG06033 IG06029 IG06031  
DATE EXTRACTED: 07/05/1216:38 07/05/1216:38 07/05/1216:38 DATE COLLECTED: 06/26/12 10:31  
DATE ANALYZED: 07/06/1220:07 07/06/1219:25 07/06/1219:46 DATE RECEIVED: 06/26/12  
PREP. BATCH: HCG001S HCG001S HCG001S  
CALIB. REF: IG06023 IG06023 IG06023

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Hexavalent Chromium	ND	409	328	80	433	358	83	9	75-125	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F197  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILUTION FACTOR: 1 20 20  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
LAB SAMP ID: F197-01R F197-01G1 F197-01H1  
LAB FILE ID: IG06034 IG06030 IG06032  
DATE EXTRACTED: 07/05/1216:38 07/05/1216:38 07/05/1216:38 DATE COLLECTED: 06/26/12 10:31  
DATE ANALYZED: 07/06/1220:17 07/06/1219:36 07/06/1219:56 DATE RECEIVED: 06/26/12  
PREP. BATCH: HCG001S HCG001S HCG001S  
CALIB. REF: IG06023 IG06023 IG06023

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	409	328	80	433	339	78	3	75-125	20

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F197  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST (pH Unit)		RL (pH Unit)	MDL	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-581-SA5C-SB-4.0-5.0	F197-01	8.01	1	NA	NA	NA	06/27/1214:29	06/27/1213:39	12PHF027S01	12PHF027	PHF027S	06/26/1210:31	06/26/12
SL-581-SA5C-SB-4.0-5.0DUP	F197-01D	8.01	1	NA	NA	NA	06/27/1214:37	06/27/1213:39	12PHF027S02	12PHF027	PHF027S	06/26/1210:31	06/26/12
SL-881-SA5C-SB-4.0-5.0	F197-03	8.06	1	NA	NA	NA	06/27/1214:41	06/27/1213:39	12PHF027S03	12PHF027	PHF027S	06/26/1210:33	06/26/12
SL-747-SA5C-SB-2.5-3.5	F197-05	7.09	1	NA	NA	NA	06/27/1214:43	06/27/1213:39	12PHF027S04	12PHF027	PHF027S	06/26/1214:01	06/26/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12F197	DATE RECEIVED:	06/26/12
SAMPLE ID:	SL-581-SA5C-SB-4.0-5.0DUP	DATE EXTRACTED:	06/27/1213:39
CONTROL NO.:	F197-01D	DATE ANALYZED:	06/27/1214:37

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.01	8.01	0	+/-0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/27/12
Project      : SSFL PHASE 3                     Date Received: 06/27/12
Batch No.    : 12F215                           Date Extracted: 07/03/12 11:14
Sample ID    : SL-578-SA5C-SB-4.0-5.0          Date Analyzed: 07/05/12 13:47
Lab Samp ID  : F215-01                          Dilution Factor: 1
Lab File ID  : RGH090                           Matrix          : SOIL
Ext Btch ID  : SVG005S                          % Moisture     : 9.6
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	735	1106	66.4	40-130
2-FLUOROBIPHENYL	629	1106	56.9	45-130
TERPHENYL-D14	1080	1106	97.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/03/12
Batch No.    : 12F215                           Date Extracted: 07/03/12 11:14
Sample ID    : MBLK1S                            Date Analyzed: 07/05/12 12:50
Lab Samp ID  : SVG005SB                         Dilution Factor: 1
Lab File ID  : RGH087                           Matrix          : SOIL
Ext Btch ID  : SVG005S                          % Moisture     : NA
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	786	1000	78.6	40-130
2-FLUOROBIPHENYL	778	1000	77.8	45-130
TERPHENYL-D14	931	1000	93.1	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F215  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVG005SB SVG005SL SVG005SC  
LAB FILE ID: RGH087 RGH088 RGH089  
DATE EXTRACTED: 07/03/1211:14 07/03/1211:14 07/03/1211:14 DATE COLLECTED: NA  
DATE ANALYZED: 07/05/1212:50 07/05/1213:09 07/05/1213:28 DATE RECEIVED: 07/03/12  
PREP. BATCH: SVG005S SVG005S SVG005S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	320	96	333	335	100	5	10-130	50
Acenaphthylene	ND	333	340	102	333	358	107	5	20-130	50
Anthracene	ND	333	307	92	333	314	94	2	20-130	50
Benzo (a) anthracene	ND	333	363	109	333	365	109	0	30-130	50
Benzo (a) pyrene	ND	333	360	108	333	363	109	1	30-130	50
Benzo (b) fluoranthene	ND	333	387	116	333	393	118	2	40-130	50
Benzo (k) fluoranthene	ND	333	367	110	333	363	109	1	30-140	50
Benzo (g, h, i) perylene	ND	333	379	114	333	386	116	2	30-140	50
Chrysene	ND	333	356	107	333	355	107	0	30-140	50
Dibenzo (a, h) anthracene	ND	333	392	118	333	398	119	2	40-140	50
Fluoranthene	ND	333	361	108	333	364	109	1	30-130	50
Fluorene	ND	333	341	102	333	352	106	3	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	392	118	333	399	120	2	20-160	50
Naphthalene	ND	333	299	90	333	314	94	5	10-130	50
Phenanthrene	ND	333	310	93	333	320	96	3	20-130	50
2-Methylnaphthalene	ND	333	318	96	333	336	101	5	30-150	50
1-Methylnaphthalene	ND	333	321	96	333	338	101	5	30-150	50
N-Nitrosodimethylamine	ND	333	278	83	333	290	87	4	30-150	50
Pyrene	ND	333	352	106	333	354	106	0	20-150	50
Azobenzene	ND	333	274	82	333	288	86	5	30-150	50
Benzo (e) pyrene	ND	333	325	98	333	321	96	1	30-150	50
Biphenyl	ND	333	248	74	333	256	77	3	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	1000	782	78	1000	793	79	40-130
2-Fluorobiphenyl	1000	780	78	1000	792	79	45-130
Terphenyl-d14	1000	952	95	1000	913	91	45-130

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/27/12
Project      : SSFL PHASE 3                     Date Received: 06/27/12
Batch No.    : 12F215                           Date Extracted: 07/06/12 15:21
Sample ID    : SL-578-SA5C-SB-4.0-5.0          Date Analyzed: 07/10/12 16:03
Lab Samp ID  : F215-01                          Dilution Factor: 1
Lab File ID  : SG10013A                        Matrix          : SOIL
Ext Btch ID  : CPG012S                         % Moisture     : 9.6
Calib. Ref.  : SG10002A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.74)   18.74	14.75	(107)   127*	45-120
TETRACHLORO-M-XYLENE	12.07   (12.19)	14.75	81.9   (82.7)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 07/06/12
Batch No.  : 12F215                             Date Extracted: 07/06/12 15:21
Sample ID  : MBLK1S                             Date Analyzed: 07/10/12 11:19
Lab Samp ID: 60G012SB                          Dilution Factor: 1
Lab File ID: SG10005A                          Matrix          : SOIL
Ext Btch ID: CPG012S                           % Moisture     : NA
Calib. Ref.: SG10002A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.66   (13.41)	13.33	87.5   (101)	45-120
TETRACHLORO-M-XYLENE	11.39   (11.68)	13.33	85.4   (87.6)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F215  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60G012SB 60G012SL 60G012SC  
LAB FILE ID: SG10005A SG10006A SG10007A  
DATE EXTRACTED: 07/06/1215:21 07/06/1215:21 07/06/1215:21 DATE COLLECTED: NA  
DATE ANALYZED: 07/10/1211:19 07/10/1211:54 07/10/1212:29 DATE RECEIVED: 07/06/12  
PREP. BATCH: CPG012S CPG012S CPG012S  
CALIB. REF: SG10002A SG10002A SG10002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	155   (165)	93   (99)	167	144   (157)	86   (94)	7   (5)	50-130	50
Aroclor 1260	(ND)   ND	167	185   (208)	111   (125)	167	183   (205)	110   (123)	1   (1)	60-150	50
Aroclor 5460	(ND)   ND	83.3	93.0   (101)	112   (121)	83.3	88.2   (96.7)	106   (116)	5   (4)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	13.87   (16.03)	104   (120)	13.33	13.56   (15.76)	102   (118)	45-120
Tetrachloro-m-xylene	13.33	(12.88)   12.64	(96.6)   94.8	13.33	(11.38)   11.13	(85.4)   83.5	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/27/12
Project    : SSFL PHASE 3                       Date Received: 06/27/12
SDG NO.    : 12F215                             Date Extracted: 07/03/12 11:30
Sample ID  : SL-578-SA5C-SB-4.0-5.0           Date Analyzed: 07/06/12 20:33
Lab Samp ID: F215-01                            Dilution Factor: 0.980
Lab File ID: 98G02052                          Matrix          : SOIL
Ext Btch ID: IMG004S                            % Moisture     : 9.6
Calib. Ref.: 98G02046                          Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13200	108	13.0
Antimony	0.205J	0.542	0.108
Arsenic	5.22	0.542	0.217
Barium	76.6	0.542	0.217
Beryllium	0.750	0.542	0.0542
Boron	ND	5.42	2.71
Cadmium	0.295J	0.542	0.0542
Calcium	38800	21.7	10.8
Chromium	21.4	0.542	0.217
Cobalt	4.34	0.542	0.0542
Copper	8.42	0.542	0.217
Iron	20000	108	10.8
Lead	4.75	0.542	0.108
Magnesium	4180	10.8	5.42
Manganese	177	0.542	0.271
Molybdenum	0.157J	0.542	0.0542
Nickel	14.3	0.542	0.217
Potassium	1950	108	32.5
Selenium	ND	0.542	0.217
Silver	0.0752J	0.542	0.0542
Sodium	353	108	54.2
Strontium	49.7	0.542	0.271
Thallium	0.242J	0.434	0.0542
Tin	ND	10.8	5.42
Titanium	846	1.08	0.542
Vanadium	34.1	0.542	0.0542
Zinc	44.1	5.42	1.63
Lithium	24.5	2.17	1.08
Phosphorus	162	13.0	6.50
Zirconium	ND	5.42	2.71

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 07/03/12
SDG NO.    : 12F215                           Date Extracted: 07/03/12 11:30
Sample ID: MBLK1S                             Date Analyzed: 07/06/12 19:20
Lab Samp ID: IMG004SB                         Dilution Factor: 1
Lab File ID: 98G02036                         Matrix          : SOIL
Ext Btch ID: IMG004S                           % Moisture     : NA
Calib. Ref.: 98G02034                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F215  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMG004SB IMG004SL IMG004SC  
LAB FILE ID: 98G02036 98G02037 98G02038  
DATIME EXTRACTD: 07/03/1211:30 07/03/1211:30 07/03/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 07/06/1219:20 07/06/1219:25 07/06/1219:29 DATE RECEIVED: 07/03/12  
PREP. BATCH: IMG004S IMG004S IMG004S  
CALIB. REF: 98G02034 98G02034 98G02034

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2460	98	2500	2260	90	8	80-120	20
Antimony	ND	25.0	24.6	98	25.0	23.2	93	6	80-120	20
Arsenic	ND	25.0	23.7	95	25.0	22.1	88	7	80-120	20
Barium	ND	25.0	24.1	96	25.0	22.6	90	6	80-120	20
Beryllium	ND	25.0	24.6	99	25.0	22.9	91	8	80-120	20
Boron	ND	25.0	25.5	102	25.0	25.0	100	2	80-120	20
Cadmium	ND	25.0	24.3	97	25.0	23.5	94	3	80-120	20
Calcium	ND	2500	2540	102	2500	2370	95	7	80-120	20
Chromium	ND	25.0	23.7	95	25.0	21.9	88	8	80-120	20
Cobalt	ND	25.0	24.4	97	25.0	22.4	89	9	80-120	20
Copper	ND	25.0	23.5	94	25.0	21.9	88	7	80-120	20
Iron	ND	2500	2490	99	2500	2330	93	7	80-120	20
Lead	ND	25.0	24.4	98	25.0	23.5	94	4	80-120	20
Magnesium	ND	2500	2450	98	2500	2290	92	7	80-120	20
Manganese	ND	25.0	24.9	99	25.0	22.8	91	9	80-120	20
Molybdenum	ND	25.0	23.6	95	25.0	22.4	90	5	80-120	20
Nickel	ND	25.0	23.4	94	25.0	21.5	86	8	80-120	20
Potassium	ND	2500	2420	97	2500	2240	90	8	80-120	20
Selenium	ND	25.0	23.1	92	25.0	21.8	87	6	80-120	20
Silver	ND	25.0	24.4	97	25.0	24.4	98	0	80-120	20
Sodium	ND	2500	2520	101	2500	2340	94	7	80-120	20
Strontium	ND	25.0	23.9	96	25.0	22.3	89	7	80-120	20
Thallium	ND	25.0	23.9	96	25.0	23.6	94	1	80-120	20
Tin	ND	25.0	26.5	106	25.0	25.3	101	5	80-120	20
Titanium	ND	25.0	24.2	97	25.0	22.3	89	8	80-120	20
Vanadium	ND	25.0	23.6	94	25.0	21.9	88	8	80-120	20
Zinc	ND	50.0	47.3	95	50.0	45.2	90	5	80-120	20
Lithium	ND	25.0	24.2	97	25.0	22.6	90	7	80-120	20
Phosphorus	ND	250	224	90	250	212	85	6	80-120	20
Zirconium	ND	25.0	24.3	97	25.0	22.6	90	8	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F215  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILTN FACTR: 0.985 0.985  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
CONTROL NO.: F197-01 F197-01A  
LAB FILE ID: 98G03033 98G03032  
DATIME EXTRACTD: 07/03/1211:30 07/03/1211:30 DATE COLLECTED: 06/26/12  
DATIME ANALYZD: 07/11/1215:38 07/11/1215:33 DATE RECEIVED: 06/26/12  
PREP. BATCH: IMG004S IMG004S  
CALIB. REF: 98G03028 98G03028

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	17000	2780	19300	82	75-125
Antimony	0.181J	27.8	26.9	96	75-125
Arsenic	3.74	27.8	29.4	92	75-125
Barium	136	27.8	166	108	75-125
Beryllium	0.761	27.8	30.9	108	75-125
Boron	3.74J	27.8	32.8	104	75-125
Cadmium	0.301J	27.8	26.0	92	75-125
Calcium	97400	2780	98600	42*	75-125
Chromium	20.3	27.8	44.1	85	75-125
Cobalt	5.32	27.8	29.4	87	75-125
Copper	6.19	27.8	28.6	81	75-125
Iron	19700	2780	22200	90	75-125
Lead	5.56	27.8	31.6	94	75-125
Magnesium	4350	2780	6730	85	75-125
Manganese	195	27.8	217	79	75-125
Molybdenum	0.138J	27.8	27.2	97	75-125
Nickel	11.9	27.8	34.4	81	75-125
Potassium	1270	2780	4050	100	75-125
Selenium	ND	27.8	25.5	92	75-125
Silver	0.0705J	27.8	25.6	92	75-125
Sodium	510	2780	3050	91	75-125
Strontium	137	27.8	162	91	75-125
Thallium	0.185J	27.8	26.8	96	75-125
Tin	ND	27.8	29.7	107	75-125
Titanium	670	27.8	685	54*	75-125
Vanadium	33.9	27.8	58.2	87	75-125
Zinc	41.4	55.6	90.3	88	75-125
Lithium	23.1	27.8	51.3	101	75-125
Phosphorus	83.3	278	317	84	75-125
Zirconium	ND	27.8	29.5	106	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F215  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILUTION FACTOR: 0.985 4.93  
SAMPLE ID: SL-581-SA5C-SB SL-581-SA5C-SB  
EMAX SAMP ID: F197-01 F197-01J  
LAB FILE ID: 98G03033 98G03034  
DATE EXTRACTED: 07/03/1211:30 07/03/1211:30 DATE COLLECTED: 06/26/12  
DATE ANALYZED: 07/11/1215:38 07/11/1215:43 DATE RECEIVED: 06/26/12  
PREP. BATCH: IMG004S IMG004S  
CALIB. REF: 98G03028 98G03028

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	17000	18200	7	10
Antimony	0.181J	ND	NA	10
Arsenic	3.74	3.82	2	10
Barium	136	131	4	10
Beryllium	0.761	0.702J	NA	10
Boron	3.74J	ND	NA	10
Cadmium	0.301J	0.320J	NA	10
Calcium	97400	102000	5	10
Chromium	20.3	21.5	6	10
Cobalt	5.32	5.76	8	10
Copper	6.19	6.91	12*	10
Iron	19700	21000	6	10
Lead	5.56	5.65	2	10
Magnesium	4350	4700	8	10
Manganese	195	212	9	10
Molybdenum	0.138J	ND	NA	10
Nickel	11.9	12.9	9	10
Potassium	1270	1360	7	10
Selenium	ND	ND	0	10
Silver	0.0705J	ND	NA	10
Sodium	510	542J	NA	10
Strontium	137	136	0	10
Thallium	0.185J	ND	NA	10
Tin	ND	ND	0	10
Titanium	670	670	0	10
Vanadium	33.9	35.3	4	10
Zinc	41.4	44.1	6	10
Lithium	23.1	21.5	7	10
Phosphorus	83.3	87.1	5	10
Zirconium	ND	ND	0	10

METHOD 7471A  
 MERCURY BY COLD VAPOR

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F215  
 =====

Matrix : SOIL  
 Instrument ID : TI047  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGG005SB	ND	1	NA	0.100	0.0500	07/05/1217:58	07/05/1213:00	M47G004010	M47G004008	HGG005S	NA	07/05/12
LCS1S	HGG005SL	0.865	1	NA	0.100	0.0500	07/05/1218:00	07/05/1213:00	M47G004011	M47G004008	HGG005S	NA	07/05/12
LCD1S	HGG005SC	0.862	1	NA	0.100	0.0500	07/05/1218:02	07/05/1213:00	M47G004012	M47G004008	HGG005S	NA	07/05/12
SL-578-SA5C-SB-4.0-5.0	F215-01	ND	0.988	9.6	0.109	0.0546	07/05/1218:55	07/05/1213:00	M47G004037	M47G004032	HGG005S	06/27/12	06/27/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F215  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGG005SB HGG005SL HGG005SC  
LAB FILE ID: M47G004010 M47G004011 M47G004012  
DATIME EXTRCTD: 07/05/1213:00 07/05/1213:00 07/05/1213:00 DATE COLLECTED: NA  
DATIME ANALYZD: 07/05/1217:58 07/05/1218:00 07/05/1218:02 DATE RECEIVED: 07/05/12  
PREP. BATCH: HGG005S HGG005S HGG005S  
CALIB. REF: M47G004008 M47G004008 M47G004008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.865	104	.833	.862	103	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F215  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
CONTROL NO.: F197-01 F197-01A  
LAB FILE ID: M47G004024 M47G004023  
DATIME EXTRACTD: 07/05/1213:00 07/05/1213:00 DATE COLLECTED: 06/26/12  
DATIME ANALYZD: 07/05/1218:28 07/05/1218:26 DATE RECEIVED: 06/26/12  
PREP. BATCH: HGG005S HGG005S  
CALIB. REF: M47G004020 M47G004020

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.939	1	107	65-135

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F215  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	11.5
DILUTION FACTOR:	0.998	4.99		
SAMPLE ID:	SL-581-SA5C-SB-4.0-	SL-581-SA5C-SB-4.0-		
EMAX SAMP ID:	F197-01	F197-01J		
LAB FILE ID:	M47G004024	M47G004025		
DATE EXTRACTED:	07/05/1213:00	07/05/1213:00	DATE COLLECTED:	06/26/12
DATE ANALYZED:	07/05/1218:28	07/05/1218:30	DATE RECEIVED:	06/26/12
PREP. BATCH:	HGG005S	HGG005S		
CALIB. REF:	M47G004020	M47G004020		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----				
Mercury	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F215  
 =====

Matrix : SOIL  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF MOIST		RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLG001SB	ND	1	NA	5.00	2.50	07/05/1218:08	07/05/1211:34	MG05016	MG05014	PLG001S	NA	07/05/12
LCS1S	PLG001SL	23.3	1	NA	5.00	2.50	07/05/1218:22	07/05/1211:34	MG05017	MG05014	PLG001S	NA	07/05/12
LCD1S	PLG001SC	23.8	1	NA	5.00	2.50	07/05/1218:36	07/05/1211:34	MG05018	MG05014	PLG001S	NA	07/05/12
SL-578-SA5C-SB-4.0-5.0	F215-01	ND	1	9.6	5.53	2.77	07/05/1220:44	07/05/1211:34	MG05027	MG05025	PLG001S	06/27/1210:15	06/27/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F215  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLG001SB PLG001SL PLG001SC  
LAB FILE ID: MG05016 MG05017 MG05018  
DATE EXTRACTED: 07/05/1211:34 07/05/1211:34 07/05/1211:34 DATE COLLECTED: NA  
DATE ANALYZED: 07/05/1218:08 07/05/1218:22 07/05/1218:36 DATE RECEIVED: 07/05/12  
PREP. BATCH: PLG001S PLG001S PLG001S  
CALIB. REF: MG05014 MG05014 MG05014

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	23.3	93	25.0	23.8	95	2	85-115	20

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F215  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST (pH Unit)		RL (pH Unit)	MDL	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-578-SA5C-SB-4.0-5.0	F215-01	8.22	1	NA	NA	NA	06/28/1217:16	06/28/1215:12	12PHF028S01	12PHF028	PHF028S	06/27/1210:15	06/27/12
SL-578-SA5C-SB-4.0-5.0DUP	F215-01D	8.23	1	NA	NA	NA	06/28/1217:18	06/28/1215:12	12PHF028S02	12PHF028	PHF028S	06/27/1210:15	06/27/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12F215	DATE RECEIVED:	06/27/12
SAMPLE ID:	SL-578-SA5C-SB-4.0-5.0DUP	DATE EXTRACTED:	06/28/1215:12
CONTROL NO.:	F215-01D	DATE ANALYZED:	06/28/1217:18

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.22	8.23	-0.01	+/-0.10

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 06/28/12
Project      : SSFL PHASE 3                     Date Received: 06/28/12
Batch No.    : 12F232                           Date Extracted: 07/01/12 14:30
Sample ID    : EB-062812                        Date Analyzed: 07/06/12 19:21
Lab Samp ID  : F232-01W                         Dilution Factor: 1.01
Lab File ID  : RGJ109                           Matrix          : WATER
Ext Btch ID  : SVG002W                          % Moisture     : NA
Calib. Ref.  : RGJ007                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.51

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	16.0	20.20	79.0	40-130
2-FLUOROBIPHENYL	16.0	20.20	79.2	45-130
TERPHENYL-D14	18.1	20.20	89.5	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/01/12
Batch No.    : 12F232                           Date Extracted: 07/01/12 14:30
Sample ID    : MBLK1W                           Date Analyzed: 07/03/12 19:33
Lab Samp ID  : SVG002WB                         Dilution Factor: 1
Lab File ID  : RGJ031                           Matrix          : WATER
Ext Btch ID  : SVG002W                         % Moisture     : NA
Calib. Ref.  : RGJ007                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	10.5	20.00	52.4	40-130
2-FLUOROBIPHENYL	11.5	20.00	57.7	45-130
TERPHENYL-D14	15.7	20.00	78.5	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F232  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVG002WB SVG002WL SVG002WC  
LAB FILE ID: RGJ031 RGJ032 RGJ033  
DATE EXTRACTED: 07/01/1214:30 07/01/1214:30 07/01/1214:30 DATE COLLECTED: NA  
DATE ANALYZED: 07/03/1219:33 07/03/1219:53 07/03/1220:12 DATE RECEIVED: 07/01/12  
PREP. BATCH: SVG002W SVG002W SVG002W  
CALIB. REF: RGJ007 RGJ007 RGJ007

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	36.6	92	40.0	32.4	81	12	20-130	30
Acenaphthylene	ND	40.0	40.8	102	40.0	35.6	89	14	30-140	30
Anthracene	ND	40.0	36.4	91	40.0	35.0	88	4	40-130	30
Benzo (a) anthracene	ND	40.0	40.1	100	40.0	41.2	103	3	50-130	30
Benzo (a) pyrene	ND	40.0	41.5	104	40.0	41.6	104	0	50-130	30
Benzo (b) fluoranthene	ND	40.0	42.6	106	40.0	43.9	110	3	50-130	30
Benzo (k) fluoranthene	ND	40.0	39.1	98	40.0	37.7	94	4	50-130	30
Benzo (g, h, i) perylene	ND	40.0	43.1	108	40.0	42.9	107	0	30-150	30
Chrysene	ND	40.0	41.0	103	40.0	42.4	106	3	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	40.9	102	40.0	40.7	102	0	40-140	30
Fluoranthene	ND	40.0	38.8	97	40.0	39.2	98	1	40-130	30
Fluorene	ND	40.0	40.3	101	40.0	37.5	94	7	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	43.1	108	40.0	43.0	108	0	40-130	30
Naphthalene	ND	40.0	35.4	89	40.0	27.9	70	24	20-130	30
Phenanthrene	ND	40.0	37.4	94	40.0	36.3	91	3	40-130	30
2-Methylnaphthalene	ND	40.0	38.1	95	40.0	30.6	76	22	30-150	30
1-Methylnaphthalene	ND	40.0	37.4	94	40.0	30.2	75	21	40-150	30
N-Nitrosodimethylamine	ND	40.0	36.7	92	40.0	27.3	68	30	20-150	30
Pyrene	ND	40.0	36.7	92	40.0	37.2	93	1	40-130	30
Azobenzene	ND	40.0	37.5	94	40.0	34.6	86	8	30-150	30
Benzo (e) pyrene	ND	40.0	36.8	92	40.0	37.5	94	2	30-150	30
Biphenyl	ND	40.0	29.9	75	40.0	25.6	64	16	30-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	13.8	69	20.0	11.1	56	40-130
2-Fluorobiphenyl	20.0	13.1	66	20.0	11.0	55	45-130
Terphenyl-d14	20.0	14.9	74	20.0	15.8	79	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/28/12
Project      : SSFL PHASE 3                     Date Received: 06/28/12
Batch No.    : 12F232                           Date Extracted: 07/03/12 11:14
Sample ID:   SL-501-SA5C-SB-4.0-5.0           Date Analyzed: 07/06/12 15:23
Lab Samp ID: F232-02                           Dilution Factor: 1
Lab File ID: RGH133                             Matrix          : SOIL
Ext Btch ID: SVG005S                            % Moisture     : 10.6
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	718	1119	64.2	40-130
2-FLUOROBIPHENYL	632	1119	56.5	45-130
TERPHENYL-D14	1020	1119	91.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 06/28/12
Project      : SSFL PHASE 3                     Date Received: 06/28/12
Batch No.    : 12F232                           Date Extracted: 07/03/12 11:14
Sample ID    : SL-502-SA5C-SB-4.5-5.5          Date Analyzed: 07/06/12 15:42
Lab Samp ID  : F232-03                           Dilution Factor: 1
Lab File ID  : RGH134                             Matrix          : SOIL
Ext Btch ID  : SVG005S                           % Moisture     : 10.0
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	703	1111	63.2	40-130
2-FLUOROBIPHENYL	648	1111	58.3	45-130
TERPHENYL-D14	1050	1111	94.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/03/12
Batch No.    : 12F232                          Date Extracted: 07/03/12 11:14
Sample ID    : MBLK1S                          Date Analyzed: 07/05/12 12:50
Lab Samp ID  : SVG005SB                       Dilution Factor: 1
Lab File ID  : RGH087                          Matrix          : SOIL
Ext Btch ID  : SVG005S                        % Moisture     : NA
Calib. Ref.  : RPH072                          Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	786	1000	78.6	40-130
2-FLUOROBIPHENYL	778	1000	77.8	45-130
TERPHENYL-D14	931	1000	93.1	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F232  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVG005SB SVG005SL SVG005SC  
LAB FILE ID: RGH087 RGH088 RGH089  
DATE EXTRACTED: 07/03/1211:14 07/03/1211:14 07/03/1211:14 DATE COLLECTED: NA  
DATE ANALYZED: 07/05/1212:50 07/05/1213:09 07/05/1213:28 DATE RECEIVED: 07/03/12  
PREP. BATCH: SVG005S SVG005S SVG005S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	320	96	333	335	100	5	10-130	50
Acenaphthylene	ND	333	340	102	333	358	107	5	20-130	50
Anthracene	ND	333	307	92	333	314	94	2	20-130	50
Benzo (a) anthracene	ND	333	363	109	333	365	109	0	30-130	50
Benzo (a) pyrene	ND	333	360	108	333	363	109	1	30-130	50
Benzo (b) fluoranthene	ND	333	387	116	333	393	118	2	40-130	50
Benzo (k) fluoranthene	ND	333	367	110	333	363	109	1	30-140	50
Benzo (g, h, i) perylene	ND	333	379	114	333	386	116	2	30-140	50
Chrysene	ND	333	356	107	333	355	107	0	30-140	50
Dibenzo (a, h) anthracene	ND	333	392	118	333	398	119	2	40-140	50
Fluoranthene	ND	333	361	108	333	364	109	1	30-130	50
Fluorene	ND	333	341	102	333	352	106	3	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	392	118	333	399	120	2	20-160	50
Naphthalene	ND	333	299	90	333	314	94	5	10-130	50
Phenanthrene	ND	333	310	93	333	320	96	3	20-130	50
2-Methylnaphthalene	ND	333	318	96	333	336	101	5	30-150	50
1-Methylnaphthalene	ND	333	321	96	333	338	101	5	30-150	50
N-Nitrosodimethylamine	ND	333	278	83	333	290	87	4	30-150	50
Pyrene	ND	333	352	106	333	354	106	0	20-150	50
Azobenzene	ND	333	274	82	333	288	86	5	30-150	50
Benzo (e) pyrene	ND	333	325	98	333	321	96	1	30-150	50
Biphenyl	ND	333	248	74	333	256	77	3	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	1000	782	78	1000	793	79	40-130
2-Fluorobiphenyl	1000	780	78	1000	792	79	45-130
Terphenyl-d14	1000	952	95	1000	913	91	45-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 06/28/12
Project      : SSFL PHASE 3                     Date Received: 06/28/12
Batch No.    : 12F232                           Date Extracted: 07/06/12 03:06
Sample ID    : EB-062812                        Date Analyzed: 07/06/12 03:06
Lab Samp ID  : F232-01                          Dilution Factor: 1
Lab File ID  : EG05025A                         Matrix          : WATER
Ext Btch ID  : VG39G03                          % Moisture      : NA
Calib. Ref.  : EG05015A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	17J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	35.5	40.00	88.8 60-140

RL : Reporting Limit  
 Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 07/05/12
Batch No.    : 12F232                             Date Extracted: 07/05/12 11:43
Sample ID    : MBLK1W                             Date Analyzed: 07/05/12 11:43
Lab Samp ID  : VG39G03B                           Dilution Factor: 1
Lab File ID  : EG05004A                           Matrix          : WATER
Ext Btch ID  : VG39G03                             % Moisture     : NA
Calib. Ref.  : EG05003A                           Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	30.7	40.00	76.7 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F232  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39G03B VG39G03L VG39G03C  
LAB FILE ID: EG05004A EG05005A EG05006A  
DATE EXTRACTED: 07/05/1211:43 07/05/1212:26 07/05/1213:09 DATE COLLECTED: NA  
DATE ANALYZED: 07/05/1211:43 07/05/1212:26 07/05/1213:09 DATE RECEIVED: 07/05/12  
PREP. BATCH: VG39G03 VG39G03 VG39G03  
CALIB. REF: EG05003A EG05003A EG05003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	452	90	500	429	86	5	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	43.2	108	40.0	42.0	105	60-130

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 06/28/12
Project      : SSFL PHASE 3                     Date Received: 06/28/12
Batch No.    : 12F232                           Date Extracted: 07/02/12 13:15
Sample ID    : EB-062812                       Date Analyzed: 07/04/12 09:15
Lab Samp ID  : F232-01                         Dilution Factor: 0.99
Lab File ID  : LG03063A                       Matrix          : WATER
Ext Btch ID  : DSG004W                        % Moisture     : NA
Calib. Ref.  : LG03061A                       Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.099	0.050
EFH(C12-C14)	ND	0.099	0.050
EFH(C15-C20)	ND	0.099	0.050
EFH(C21-C30)	ND	0.099	0.050
EFH(C30-C40)	ND	0.099	0.050
TOTAL EFH(C8-C40)	ND	0.099	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.767	0.9900	77.5	40-130
HEXACOSANE	0.264	0.2475	107	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/02/12
Batch No.    : 12F232                           Date Extracted: 07/02/12 13:15
Sample ID    : MBLK1W                           Date Analyzed: 07/04/12 04:09
Lab Samp ID  : DSG004WB                         Dilution Factor: 1
Lab File ID  : LG03045A                         Matrix          : WATER
Ext Btch ID  : DSG004W                          % Moisture      : NA
Calib. Ref.  : LG03037A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.776	1.000	77.6	40-130
HEXACOSANE	0.270	0.2500	108	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F232  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSG004WB DSG004WL DSG004WC  
LAB FILE ID: LG03045A LG03043A LG03044A  
DATE EXTRACTED: 07/02/1213:15 07/02/1213:15 07/02/1213:15 DATE COLLECTED: NA  
DATE ANALYZED: 07/04/1204:09 07/04/1203:35 07/04/1203:52 DATE RECEIVED: 07/02/12  
PREP. BATCH: DSG004W DSG004W DSG004W  
CALIB. REF: LG03037A LG03037A LG03037A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.84	97	5.00	4.77	95	1	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.810	81	1.00	0.851	85	40-130
Hexacosane	0.250	0.263	105	0.250	0.279	112	40-150

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/28/12
Project      : SSFL PHASE 3                     Date Received: 06/28/12
Batch No.    : 12F232                           Date Extracted: 07/02/12 11:30
Sample ID    : EB-062812                        Date Analyzed: 07/10/12 20:29
Lab Samp ID  : F232-01                          Dilution Factor: 0.98
Lab File ID  : SG10021A                         Matrix          : WATER
Ext Btch ID  : CPG005W                          % Moisture     : NA
Calib. Ref.  : SG10015A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	0.98	0.49   0.49
AROCLOR 1221	(ND)   ND	0.98	0.49   0.49
AROCLOR 1232	(ND)   ND	0.98	0.49   0.49
AROCLOR 1242	(ND)   ND	0.98	0.49   0.49
AROCLOR 1248	(ND)   ND	0.98	0.49   0.49
AROCLOR 1254	(ND)   ND	0.98	0.49   0.49
AROCLOR 1260	(ND)   ND	0.98	0.49   0.49
AROCLOR 1262	(ND)   ND	0.98	0.49   0.49
AROCLOR 1268	(ND)   ND	0.98	0.49   0.49
AROCLOR 5432	(ND)   ND	2.0	0.98   0.98
AROCLOR 5442	(ND)   ND	2.0	0.98   0.98
AROCLOR 5460	(ND)   ND	2.0	0.98   0.98

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.4988)   0.6043	0.3920	(127*)   154*	45-120
TETRACHLORO-M-XYLENE	(0.4279)   0.4434	0.3920	(109)   113	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 07/02/12
Batch No.    : 12F232                             Date Extracted: 07/02/12 11:30
Sample ID    : MBLK1W                             Date Analyzed: 07/10/12 18:43
Lab Samp ID  : 60G005WB                           Dilution Factor: 1
Lab File ID  : SG10018A                           Matrix          : WATER
Ext Btch ID  : CPG005W                             % Moisture     : NA
Calib. Ref.  : SG10015A                           Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.4766)   0.5681	0.4000	(119)   142*	45-120
TETRACHLORO-M-XYLENE	(0.4070)   0.4200	0.4000	(102)   105	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F232  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: 60G005WB 60G005WL 60G005WC  
LAB FILE ID: SG10018A SG10019A SG10020A  
DATE EXTRACTED: 07/02/1211:30 07/02/1211:30 07/02/1211:30 DATE COLLECTED: NA  
DATE ANALYZED: 07/10/1218:43 07/10/1219:19 07/10/1219:54 DATE RECEIVED: 07/02/12  
PREP. BATCH: CPG005W CPG005W CPG005W  
CALIB. REF: SG10015A SG10015A SG10015A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	(5.08)   5.45	(102)   109	5.00	(4.30)   4.67	(86)   93	(17)   15	50-130	30
Aroclor 1260	(ND)   ND	5.00	(6.07)   7.14	(121)   143	5.00	(5.19)   6.08	(104)   122	(16)   16	60-150	30
Aroclor 5460	(ND)   ND	2.50	(2.94)   3.27	(118)   131	2.50	(2.84)   3.14	(114)   126	(3)   4	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	(0.5021)   0.6002	(126*)   150*	0.4000	(0.4549)   0.5426	(114)   136*	45-120
Tetrachloro-m-xylene	0.4000	(0.4609)   0.4574	(115)   114	0.4000	(0.4119)   0.4089	(103)   102	30-140

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/28/12
Project      : SSFL PHASE 3                     Date Received: 06/28/12
Batch No.    : 12F232                           Date Extracted: 07/06/12 15:21
Sample ID:   SL-501-SA5C-SB-4.0-5.0           Date Analyzed: 07/10/12 21:04
Lab Samp ID: F232-02                           Dilution Factor: 1
Lab File ID: SG10022A                          Matrix          : SOIL
Ext Btch ID: CPG012S                           % Moisture     : 10.6
Calib. Ref.: SG10015A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.64)   17.79	14.91	(98.2)   119	45-120
TETRACHLORO-M-XYLENE	(12.98)   13.08	14.91	(87.1)   87.7	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 06/28/12
Project      : SSFL PHASE 3                     Date Received: 06/28/12
Batch No.    : 12F232                           Date Extracted: 07/06/12 15:21
Sample ID:   SL-502-SA5C-SB-4.5-5.5            Date Analyzed: 07/10/12 21:40
Lab Samp ID: F232-03                            Dilution Factor: 1
Lab File ID: SG10023A                          Matrix          : SOIL
Ext Btch ID: CPG012S                            % Moisture     : 10.0
Calib. Ref.: SG10015A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(17.14)   19.90	14.81	(116)   134*	45-120
TETRACHLORO-M-XYLENE	(15.14)   15.58	14.81	(102)   105	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/06/12
Batch No.    : 12F232                           Date Extracted: 07/06/12 15:21
Sample ID    : MBLK1S                           Date Analyzed: 07/10/12 11:19
Lab Samp ID  : 60G012SB                         Dilution Factor: 1
Lab File ID  : SG10005A                         Matrix          : SOIL
Ext Btch ID  : CPG012S                          % Moisture     : NA
Calib. Ref.  : SG10002A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	11.66   (13.41)	13.33	87.5   (101)	45-120
TETRACHLORO-M-XYLENE	11.39   (11.68)	13.33	85.4   (87.6)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F232  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60G012SB 60G012SL 60G012SC  
LAB FILE ID: SG10005A SG10006A SG10007A  
DATE EXTRACTED: 07/06/1215:21 07/06/1215:21 07/06/1215:21 DATE COLLECTED: NA  
DATE ANALYZED: 07/10/1211:19 07/10/1211:54 07/10/1212:29 DATE RECEIVED: 07/06/12  
PREP. BATCH: CPG012S CPG012S CPG012S  
CALIB. REF: SG10002A SG10002A SG10002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	155   (165)	93   (99)	167	144   (157)	86   (94)	7   (5)	50-130	50
Aroclor 1260	(ND)   ND	167	185   (208)	111   (125)	167	183   (205)	110   (123)	1   (1)	60-150	50
Aroclor 5460	(ND)   ND	83.3	93.0   (101)	112   (121)	83.3	88.2   (96.7)	106   (116)	5   (4)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	13.87   (16.03)	104   (120)	13.33	13.56   (15.76)	102   (118)	45-120
Tetrachloro-m-xylene	13.33	(12.88)   12.64	(96.6)   94.8	13.33	(11.38)   11.13	(85.4)   83.5	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/28/12
Project    : SSFL PHASE 3                     Date Received: 06/28/12
SDG NO.    : 12F232                           Date Extracted: 07/03/12 11:30
Sample ID  : EB-062812                        Date Analyzed: 07/06/12 21:15
Lab Samp ID: F232-01                          Dilution Factor: 1
Lab File ID: 98G02061                         Matrix          : WATER
Ext Btch ID: IMG003W                          % Moisture     : NA
Calib. Ref.: 98G02056                         Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00600J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 07/03/12
SDG NO.    : 12F232                           Date Extracted: 07/03/12 11:30
Sample ID   : MBLK1W                           Date Analyzed: 07/06/12 21:01
Lab Samp ID: IMG003WB                           Dilution Factor: 1
Lab File ID: 98G02058                           Matrix          : WATER
Ext Btch ID: IMG003W                             % Moisture      : NA
Calib. Ref.: 98G02056                           Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F232  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMG003WB IMG003WL IMG003WC  
LAB FILE ID: 98G02058 98G02059 98G02060  
DATIME EXTRACTD: 07/03/1211:30 07/03/1211:30 07/03/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 07/06/1221:01 07/06/1221:06 07/06/1221:10 DATE RECEIVED: 07/03/12  
PREP. BATCH: IMG003W IMG003W IMG003W  
CALIB. REF: 98G02056 98G02056 98G02056

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.53	101	2.50	2.51	101	1	80-120	20
Antimony	ND	0.0250	0.0256	103	0.0250	0.0250	100	2	80-120	20
Arsenic	ND	0.0250	0.0244	98	0.0250	0.0247	99	1	80-120	20
Barium	ND	0.0250	0.0253	101	0.0250	0.0244	98	4	80-120	20
Beryllium	ND	0.0250	0.0262	105	0.0250	0.0254	102	3	80-120	20
Boron	ND	0.0250	0.0275	110	0.0250	0.0271	108	1	80-120	20
Cadmium	ND	0.0250	0.0250	100	0.0250	0.0245	98	2	80-120	20
Calcium	ND	2.50	2.67	107	2.50	2.64	106	1	80-120	20
Chromium	ND	0.0250	0.0242	97	0.0250	0.0247	99	2	80-120	20
Cobalt	ND	0.0250	0.0248	99	0.0250	0.0245	98	1	80-120	20
Copper	ND	0.0250	0.0245	98	0.0250	0.0245	98	0	80-120	20
Iron	ND	2.50	2.59	104	2.50	2.61	104	1	80-120	20
Lead	ND	0.0250	0.0251	100	0.0250	0.0248	99	1	80-120	20
Magnesium	ND	2.50	2.55	102	2.50	2.51	100	2	80-120	20
Manganese	ND	0.0250	0.0251	100	0.0250	0.0253	101	1	80-120	20
Molybdenum	ND	0.0250	0.0245	98	0.0250	0.0244	98	0	80-120	20
Nickel	ND	0.0250	0.0243	97	0.0250	0.0242	97	0	80-120	20
Potassium	ND	2.50	2.51	100	2.50	2.47	99	2	80-120	20
Selenium	ND	0.0250	0.0242	97	0.0250	0.0245	98	1	80-120	20
Silver	ND	0.0250	0.0255	102	0.0250	0.0254	102	0	80-120	20
Sodium	ND	2.50	2.54	102	2.50	2.56	103	1	80-120	20
Strontium	ND	0.0250	0.0250	100	0.0250	0.0249	100	0	80-120	20
Thallium	ND	0.0250	0.0245	98	0.0250	0.0241	96	2	80-120	20
Tin	ND	0.0250	0.0254	102	0.0250	0.0251	100	1	80-120	20
Titanium	ND	0.0250	0.0250	100	0.0250	0.0249	100	0	80-120	20
Vanadium	ND	0.0250	0.0240	96	0.0250	0.0240	96	0	80-120	20
Zinc	ND	0.0500	0.0515	103	0.0500	0.0508	102	1	80-120	20
Lithium	ND	0.0250	0.0246	99	0.0250	0.0240	96	2	80-120	20
Phosphorus	ND	0.250	0.235	94	0.250	0.231	92	2	80-120	20
Zirconium	ND	0.0250	0.0256	103	0.0250	0.0250	100	2	80-120	20

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 06/28/12
Project     : SSFL PHASE 3                     Date Received: 06/28/12
SDG NO.    : 12F232                           Date Extracted: 07/03/12 11:30
Sample ID:  SL-501-SA5C-SB-4.0-5.0           Date Analyzed: 07/06/12 20:24
Lab Samp ID: F232-02                          Dilution Factor: 0.971
Lab File ID: 98G02050                         Matrix          : SOIL
Ext Btch ID: IMG004S                           % Moisture     : 10.6
Calib. Ref.: 98G02046                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20600	109	13.0
Antimony	0.219J	0.543	0.109
Arsenic	7.29	0.543	0.217
Barium	129	0.543	0.217
Beryllium	0.996	0.543	0.0543
Boron	3.05J	5.43	2.72
Cadmium	0.233J	0.543	0.0543
Calcium	3450	21.7	10.9
Chromium	26.8	0.543	0.217
Cobalt	7.90	0.543	0.0543
Copper	11.8	0.543	0.217
Iron	27300	109	10.9
Lead	9.31	0.543	0.109
Magnesium	4940	10.9	5.43
Manganese	339	0.543	0.272
Molybdenum	0.404J	0.543	0.0543
Nickel	15.9	0.543	0.217
Potassium	2580	109	32.6
Selenium	ND	0.543	0.217
Silver	0.154J	0.543	0.0543
Sodium	147	109	54.3
Strontium	28.3	0.543	0.272
Thallium	0.292J	0.434	0.0543
Tin	ND	10.9	5.43
Titanium	910	1.09	0.543
Vanadium	49.3	0.543	0.0543
Zinc	57.6	5.43	1.63
Lithium	28.6	2.17	1.09
Phosphorus	166	13.0	6.52
Zirconium	ND	5.43	2.72

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 06/28/12
Project      : SSFL PHASE 3                     Date Received: 06/28/12
SDG NO.     : 12F232                           Date Extracted: 07/03/12 11:30
Sample ID   : SL-502-SA5C-SB-4.5-5.5          Date Analyzed: 07/06/12 20:29
Lab Samp ID : F232-03                           Dilution Factor: 1.00
Lab File ID : 98G02051                         Matrix          : SOIL
Ext Btch ID : IMG004S                          % Moisture     : 10.0
Calib. Ref. : 98G02046                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17200	111	13.3
Antimony	0.263J	0.556	0.111
Arsenic	5.98	0.556	0.222
Barium	102	0.556	0.222
Beryllium	0.844	0.556	0.0556
Boron	3.23J	5.56	2.78
Cadmium	0.235J	0.556	0.0556
Calcium	35700	22.2	11.1
Chromium	22.8	0.556	0.222
Cobalt	5.98	0.556	0.0556
Copper	9.02	0.556	0.222
Iron	22700	111	11.1
Lead	7.07	0.556	0.111
Magnesium	4480	11.1	5.56
Manganese	187	0.556	0.278
Molybdenum	0.231J	0.556	0.0556
Nickel	13.0	0.556	0.222
Potassium	1890	111	33.3
Selenium	ND	0.556	0.222
Silver	0.0887J	0.556	0.0556
Sodium	524	111	55.6
Strontium	52.1	0.556	0.278
Thallium	0.232J	0.444	0.0556
Tin	ND	11.1	5.56
Titanium	705	1.11	0.556
Vanadium	42.0	0.556	0.0556
Zinc	45.2	5.56	1.67
Lithium	22.3	2.22	1.11
Phosphorus	108	13.3	6.67
Zirconium	ND	5.56	2.78

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 07/03/12
SDG NO.    : 12F232                           Date Extracted: 07/03/12 11:30
Sample ID  : MBLK1S                            Date Analyzed: 07/06/12 19:20
Lab Samp ID: IMG004SB                         Dilution Factor: 1
Lab File ID: 98G02036                        Matrix          : SOIL
Ext Btch ID: IMG004S                          % Moisture     : NA
Calib. Ref.: 98G02034                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F232  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMG004SB IMG004SL IMG004SC  
LAB FILE ID: 98G02036 98G02037 98G02038  
DATIME EXTRACTD: 07/03/1211:30 07/03/1211:30 07/03/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 07/06/1219:20 07/06/1219:25 07/06/1219:29 DATE RECEIVED: 07/03/12  
PREP. BATCH: IMG004S IMG004S IMG004S  
CALIB. REF: 98G02034 98G02034 98G02034

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2460	98	2500	2260	90	8	80-120	20
Antimony	ND	25.0	24.6	98	25.0	23.2	93	6	80-120	20
Arsenic	ND	25.0	23.7	95	25.0	22.1	88	7	80-120	20
Barium	ND	25.0	24.1	96	25.0	22.6	90	6	80-120	20
Beryllium	ND	25.0	24.6	99	25.0	22.9	91	8	80-120	20
Boron	ND	25.0	25.5	102	25.0	25.0	100	2	80-120	20
Cadmium	ND	25.0	24.3	97	25.0	23.5	94	3	80-120	20
Calcium	ND	2500	2540	102	2500	2370	95	7	80-120	20
Chromium	ND	25.0	23.7	95	25.0	21.9	88	8	80-120	20
Cobalt	ND	25.0	24.4	97	25.0	22.4	89	9	80-120	20
Copper	ND	25.0	23.5	94	25.0	21.9	88	7	80-120	20
Iron	ND	2500	2490	99	2500	2330	93	7	80-120	20
Lead	ND	25.0	24.4	98	25.0	23.5	94	4	80-120	20
Magnesium	ND	2500	2450	98	2500	2290	92	7	80-120	20
Manganese	ND	25.0	24.9	99	25.0	22.8	91	9	80-120	20
Molybdenum	ND	25.0	23.6	95	25.0	22.4	90	5	80-120	20
Nickel	ND	25.0	23.4	94	25.0	21.5	86	8	80-120	20
Potassium	ND	2500	2420	97	2500	2240	90	8	80-120	20
Selenium	ND	25.0	23.1	92	25.0	21.8	87	6	80-120	20
Silver	ND	25.0	24.4	97	25.0	24.4	98	0	80-120	20
Sodium	ND	2500	2520	101	2500	2340	94	7	80-120	20
Strontium	ND	25.0	23.9	96	25.0	22.3	89	7	80-120	20
Thallium	ND	25.0	23.9	96	25.0	23.6	94	1	80-120	20
Tin	ND	25.0	26.5	106	25.0	25.3	101	5	80-120	20
Titanium	ND	25.0	24.2	97	25.0	22.3	89	8	80-120	20
Vanadium	ND	25.0	23.6	94	25.0	21.9	88	8	80-120	20
Zinc	ND	50.0	47.3	95	50.0	45.2	90	5	80-120	20
Lithium	ND	25.0	24.2	97	25.0	22.6	90	7	80-120	20
Phosphorus	ND	250	224	90	250	212	85	6	80-120	20
Zirconium	ND	25.0	24.3	97	25.0	22.6	90	8	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F232  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILTN FACTR: 0.985 0.985  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
CONTROL NO.: F197-01 F197-01A  
LAB FILE ID: 98G03033 98G03032  
DATIME EXTRACTD: 07/03/1211:30 07/03/1211:30 DATE COLLECTED: 06/26/12  
DATIME ANALYZD: 07/11/1215:38 07/11/1215:33 DATE RECEIVED: 06/26/12  
PREP. BATCH: IMG004S IMG004S  
CALIB. REF: 98G03028 98G03028

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	17000	2780	19300	82	75-125
Antimony	0.181J	27.8	26.9	96	75-125
Arsenic	3.74	27.8	29.4	92	75-125
Barium	136	27.8	166	108	75-125
Beryllium	0.761	27.8	30.9	108	75-125
Boron	3.74J	27.8	32.8	104	75-125
Cadmium	0.301J	27.8	26.0	92	75-125
Calcium	97400	2780	98600	42*	75-125
Chromium	20.3	27.8	44.1	85	75-125
Cobalt	5.32	27.8	29.4	87	75-125
Copper	6.19	27.8	28.6	81	75-125
Iron	19700	2780	22200	90	75-125
Lead	5.56	27.8	31.6	94	75-125
Magnesium	4350	2780	6730	85	75-125
Manganese	195	27.8	217	79	75-125
Molybdenum	0.138J	27.8	27.2	97	75-125
Nickel	11.9	27.8	34.4	81	75-125
Potassium	1270	2780	4050	100	75-125
Selenium	ND	27.8	25.5	92	75-125
Silver	0.0705J	27.8	25.6	92	75-125
Sodium	510	2780	3050	91	75-125
Strontium	137	27.8	162	91	75-125
Thallium	0.185J	27.8	26.8	96	75-125
Tin	ND	27.8	29.7	107	75-125
Titanium	670	27.8	685	54*	75-125
Vanadium	33.9	27.8	58.2	87	75-125
Zinc	41.4	55.6	90.3	88	75-125
Lithium	23.1	27.8	51.3	101	75-125
Phosphorus	83.3	278	317	84	75-125
Zirconium	ND	27.8	29.5	106	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F232  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILUTION FACTOR: 0.985 4.93  
SAMPLE ID: SL-581-SA5C-SB SL-581-SA5C-SB  
EMAX SAMP ID: F197-01 F197-01J  
LAB FILE ID: 98G03033 98G03034  
DATE EXTRACTED: 07/03/1211:30 07/03/1211:30 DATE COLLECTED: 06/26/12  
DATE ANALYZED: 07/11/1215:38 07/11/1215:43 DATE RECEIVED: 06/26/12  
PREP. BATCH: IMG004S IMG004S  
CALIB. REF: 98G03028 98G03028

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	17000	18200	7	10
Antimony	0.181J	ND	NA	10
Arsenic	3.74	3.82	2	10
Barium	136	131	4	10
Beryllium	0.761	0.702J	NA	10
Boron	3.74J	ND	NA	10
Cadmium	0.301J	0.320J	NA	10
Calcium	97400	102000	5	10
Chromium	20.3	21.5	6	10
Cobalt	5.32	5.76	8	10
Copper	6.19	6.91	12*	10
Iron	19700	21000	6	10
Lead	5.56	5.65	2	10
Magnesium	4350	4700	8	10
Manganese	195	212	9	10
Molybdenum	0.138J	ND	NA	10
Nickel	11.9	12.9	9	10
Potassium	1270	1360	7	10
Selenium	ND	ND	0	10
Silver	0.0705J	ND	NA	10
Sodium	510	542J	NA	10
Strontium	137	136	0	10
Thallium	0.185J	ND	NA	10
Tin	ND	ND	0	10
Titanium	670	670	0	10
Vanadium	33.9	35.3	4	10
Zinc	41.4	44.1	6	10
Lithium	23.1	21.5	7	10
Phosphorus	83.3	87.1	5	10
Zirconium	ND	ND	0	10

METHOD 7470A  
 MERCURY BY COLD VAPOR

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F232  
 =====

Matrix : WATER  
 Instrument ID : TI047  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGG003WB	ND	1	NA	0.000500	0.000100	07/03/1215:27	07/03/1211:30	M47G002010	M47G002008	HGG003W	NA	07/03/12
LCS1W	HGG003WL	0.00498	1	NA	0.000500	0.000100	07/03/1215:29	07/03/1211:30	M47G002011	M47G002008	HGG003W	NA	07/03/12
LCD1W	HGG003WC	0.00499	1	NA	0.000500	0.000100	07/03/1215:32	07/03/1211:30	M47G002012	M47G002008	HGG003W	NA	07/03/12
EB-062812	F232-01	ND	1	NA	0.000500	0.000100	07/03/1216:25	07/03/1211:30	M47G002036	M47G002032	HGG003W	06/28/12	06/28/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F232  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGG003WB HGG003WL HGG003WC  
LAB FILE ID: M47G002010 M47G002011 M47G002012  
DATIME EXTRCTD: 07/03/1211:30 07/03/1211:30 07/03/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 07/03/1215:27 07/03/1215:29 07/03/1215:32 DATE RECEIVED: 07/03/12  
PREP. BATCH: HGG003W HGG003W HGG003W  
CALIB. REF: M47G002008 M47G002008 M47G002008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00498	100	.005	.00499	100	0	90-115	20

METHOD 7471A  
 MERCURY BY COLD VAPOR

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F232  
 =====

Matrix : SOIL  
 Instrument ID : TI047  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGG005SB	ND	1	NA	0.100	0.0500	07/05/1217:58	07/05/1213:00	M47G004010	M47G004008	HGG005S	NA	07/05/12
LCS1S	HGG005SL	0.865	1	NA	0.100	0.0500	07/05/1218:00	07/05/1213:00	M47G004011	M47G004008	HGG005S	NA	07/05/12
LCD1S	HGG005SC	0.862	1	NA	0.100	0.0500	07/05/1218:02	07/05/1213:00	M47G004012	M47G004008	HGG005S	NA	07/05/12
SL-501-SA5C-SB-4.0-5.0	F232-02	ND	0.990	10.6	0.111	0.0554	07/05/1218:57	07/05/1213:00	M47G004038	M47G004032	HGG005S	06/28/12	06/28/12
SL-502-SA5C-SB-4.5-5.5	F232-03	ND	0.993	10.0	0.110	0.0552	07/05/1218:59	07/05/1213:00	M47G004039	M47G004032	HGG005S	06/28/12	06/28/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F232  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGG005SB HGG005SL HGG005SC  
LAB FILE ID: M47G004010 M47G004011 M47G004012  
DATIME EXTRCTD: 07/05/1213:00 07/05/1213:00 07/05/1213:00 DATE COLLECTED: NA  
DATIME ANALYZD: 07/05/1217:58 07/05/1218:00 07/05/1218:02 DATE RECEIVED: 07/05/12  
PREP. BATCH: HGG005S HGG005S HGG005S  
CALIB. REF: M47G004008 M47G004008 M47G004008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.865	104	.833	.862	103	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12F232  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 11.5  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: SL-581-SA5C-SB-4.0-5.0  
CONTROL NO.: F197-01 F197-01A  
LAB FILE ID: M47G004024 M47G004023  
DATIME EXTRCTD: 07/05/1213:00 07/05/1213:00 DATE COLLECTED: 06/26/12  
DATIME ANALYZD: 07/05/1218:28 07/05/1218:26 DATE RECEIVED: 06/26/12  
PREP. BATCH: HGG005S HGG005S  
CALIB. REF: M47G004020 M47G004020

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.939	1	107	65-135

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12F232  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 11.5  
 DILUTION FACTOR: 0.998 4.99  
 SAMPLE ID: SL-581-SA5C-SB-4.0- SL-581-SA5C-SB-4.0-  
 EMAX SAMP ID: F197-01 F197-01J  
 LAB FILE ID: M47G004024 M47G004025  
 DATE EXTRACTED: 07/05/1213:00 07/05/1213:00 DATE COLLECTED: 06/26/12  
 DATE ANALYZED: 07/05/1218:28 07/05/1218:30 DATE RECEIVED: 06/26/12  
 PREP. BATCH: HGG005S HGG005S  
 CALIB. REF: M47G004020 M47G004020

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F232  
 =====

Matrix : WATER  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLG001WB	ND	1	NA	0.200	0.100	07/05/1215:17	NA	MG05004	MG05003	PLG001W	NA	NA
LCS1W	PLG001WL	0.975	1	NA	0.200	0.100	07/05/1215:31	NA	MG05005	MG05003	PLG001W	NA	NA
LCD1W	PLG001WC	0.960	1	NA	0.200	0.100	07/05/1215:45	NA	MG05006	MG05003	PLG001W	NA	NA
EB-062812	F232-01	ND	1	NA	0.200	0.100	07/05/1216:43	NA	MG05010	MG05003	PLG001W	06/28/1215:15	06/28/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F232  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLG001WB PLG001WL PLG001WC  
LAB FILE ID: MG05004 MG05005 MG05006  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 07/05/1215:17 07/05/1215:31 07/05/1215:45 DATE RECEIVED: NA  
PREP. BATCH: PLG001W PLG001W PLG001W  
CALIB. REF: MG05003 MG05003 MG05003

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	0.975	98	1.00	0.960	96	2	85-115	20

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F232  
 =====

Matrix : SOIL  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLG001SB	ND	1	NA	5.00	2.50	07/05/1218:08	07/05/1211:34	MG05016	MG05014	PLG001S	NA	07/05/12
LCS1S	PLG001SL	23.3	1	NA	5.00	2.50	07/05/1218:22	07/05/1211:34	MG05017	MG05014	PLG001S	NA	07/05/12
LCD1S	PLG001SC	23.8	1	NA	5.00	2.50	07/05/1218:36	07/05/1211:34	MG05018	MG05014	PLG001S	NA	07/05/12
SL-501-SA5C-SB-4.0-5.0	F232-02	ND	1	10.6	5.59	2.80	07/05/1220:58	07/05/1211:34	MG05028	MG05025	PLG001S	06/28/1209:00	06/28/12
SL-502-SA5C-SB-4.5-5.5	F232-03	ND	1	10.0	5.56	2.78	07/05/1221:12	07/05/1211:34	MG05029	MG05025	PLG001S	06/28/1210:30	06/28/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F232  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLG001SB PLG001SL PLG001SC  
LAB FILE ID: MG05016 MG05017 MG05018  
DATE EXTRACTED: 07/05/1211:34 07/05/1211:34 07/05/1211:34 DATE COLLECTED: NA  
DATE ANALYZED: 07/05/1218:08 07/05/1218:22 07/05/1218:36 DATE RECEIVED: 07/05/12  
PREP. BATCH: PLG001S PLG001S PLG001S  
CALIB. REF: MG05014 MG05014 MG05014

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	23.3	93	25.0	23.8	95	2	85-115	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12F232  
 =====

Matrix : WATER  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCF027WB	ND	1	NA	0.200	0.100	06/29/1210:38	NA	IF29003	IF29001	HCF027W	NA	NA
EB-062812	F232-01	ND	1	NA	0.200	0.100	06/29/1210:59	NA	IF29005	IF29001	HCF027W	06/28/1215:15	06/28/12
LCS1W	HCF027WL	1.80	1	NA	0.200	0.100	06/29/1211:20	NA	IF29007	IF29001	HCF027W	NA	NA
LCD1W	HCF027WC	1.92	1	NA	0.200	0.100	06/29/1212:12	NA	IF29009	IF29001	HCF027W	NA	NA

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12F232  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCF027WB HCF027WL HCF027WC  
LAB FILE ID: IF29003 IF29007 IF29009  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/29/1210:38 06/29/1211:20 06/29/1212:12 DATE RECEIVED: NA  
PREP. BATCH: HCF027W HCF027W HCF027W  
CALIB. REF: IF29001 IF29001 IF29001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.80	90	2.00	1.92	96	6	80-120	20

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F232  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB-062812	F232-01	5.76	1	NA	NA	NA 06/28/1217:56	NA	12PHF029W01	12PHF029	PHF029W	06/28/1215:15	06/28/12
EB-062812DUP	F232-01D	5.77	1	NA	NA	NA 06/28/1217:57	NA	12PHF029W02	12PHF029	PHF029W	06/28/1215:15	06/28/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.:	12F232	DATE RECEIVED:	06/28/12
SAMPLE ID:	EB-062812DUP	DATE EXTRACTED:	NA
CONTROL NO.:	F232-01D	DATE ANALYZED:	06/28/12 17:57

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	5.76	5.77	-0.01	+/-0.10

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12F232  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-501-SA5C-SB-4.0-5.0	F232-02	6.77	1	NA	NA	NA	06/29/1212:54	06/29/1211:58	12PHF030S01	12PHF030	PHF030S	06/28/1209:00	06/28/12
SL-501-SA5C-SB-4.0-5.0	DUPF232-02D	6.75	1	NA	NA	NA	06/29/1212:57	06/29/1211:58	12PHF030S02	12PHF030	PHF030S	06/28/1209:00	06/28/12
SL-502-SA5C-SB-4.5-5.5	F232-03	8.18	1	NA	NA	NA	06/29/1212:58	06/29/1211:58	12PHF030S03	12PHF030	PHF030S	06/28/1210:30	06/28/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.: 12F232                      DATE RECEIVED: 06/28/12  
SAMPLE ID: SL-501-SA5C-SB-4.0-5.0DUP      DATE EXTRACTED: 06/29/12 11:58  
CONTROL NO.: F232-02D                      DATE ANALYZED: 06/29/12 12:57

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	6.77	6.75	0.02	+/-0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-530-SA5C-SB-4.0-5.0           Date Analyzed: 07/16/12 11:20
Lab Samp ID: G030-01                           Dilution Factor: 1
Lab File ID: RGH319                             Matrix          : SOIL
Ext Btch ID: SVG021S                            % Moisture     : 10.9
Calib. Ref.: RPH072                             Instrument ID  : T-OE7
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	227	374.1	60.7	40-130
2-FLUOROBIPHENYL	220	374.1	58.8	45-130
TERPHENYL-D14	282	374.1	75.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-530-SA5C-SB-9.0-10.0           Date Analyzed: 07/16/12 11:39
Lab Samp ID: G030-02                           Dilution Factor: 1
Lab File ID: RGH320                             Matrix          : SOIL
Ext Btch ID: SVG021S                            % Moisture     : 4.7
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.6
ACENAPHTHYLENE	ND	10	2.6
ANTHRACENE	ND	10	2.6
BENZO (A) ANTHRACENE	ND	10	2.6
BENZO (A) PYRENE	ND	10	2.6
BENZO (B) FLUORANTHENE	ND	10	2.6
BENZO (K) FLUORANTHENE	ND	10	2.6
BENZO (G, H, I) PERYLENE	ND	10	2.6
CHRYSENE	ND	10	2.6
DIBENZO (A, H) ANTHRACENE	ND	10	2.6
FLUORANTHENE	ND	10	2.6
FLUORENE	ND	10	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.6
NAPHTHALENE	ND	10	2.6
PHENANTHRENE	ND	10	2.6
2-METHYLNAPHTHALENE	ND	10	2.6
1-METHYLNAPHTHALENE	ND	10	2.6
N-NITROSODIMETHYLAMINE	ND	10	2.6
PYRENE	ND	10	2.6
AZOBENZENE	ND	5.2	2.6
BENZO (E) PYRENE	ND	5.2	2.6
BIPHENYL	ND	5.2	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	183	349.7	52.2	40-130
2-FLUOROBIPHENYL	186	349.7	53.1	45-130
TERPHENYL-D14	332	349.7	95.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-522-SA5C-SB-4.0-5.0           Date Analyzed: 07/17/12 13:26
Lab Samp ID: G030-03                           Dilution Factor: 1
Lab File ID: RGH344                             Matrix          : SOIL
Ext Btch ID: SVG021S                            % Moisture     : 7.7
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	146	361.1	40.3	40-130
2-FLUOROBIPHENYL	132	361.1	36.6*	45-130
TERPHENYL-D14	177	361.1	48.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID    : SL-522-SA5C-SB-9.0-10.0         Date Analyzed: 07/16/12 12:17
Lab Samp ID  : G030-04                           Dilution Factor: 1
Lab File ID  : RGH322                             Matrix          : SOIL
Ext Btch ID  : SVG021S                            % Moisture      : 7.2
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	189	359.2	52.5	40-130
2-FLUOROBIPHENYL	177	359.2	49.3	45-130
TERPHENYL-D14	272	359.2	75.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-822-SA5C-SB-4.0-5.0           Date Analyzed: 07/16/12 12:36
Lab Samp ID: G030-05                           Dilution Factor: 1
Lab File ID: RGH323                             Matrix          : SOIL
Ext Btch ID: SVG021S                            % Moisture     : 9.4
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	218	367.9	59.3	40-130
2-FLUOROBIPHENYL	201	367.9	54.7	45-130
TERPHENYL-D14	280	367.9	76.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                       Date Received: 07/09/12
Batch No.    : 12G030                             Date Extracted: 07/13/1216:59
Sample ID:   SL-531-SA5C-SB-4.0-5.0              Date Analyzed: 07/16/12 12:55
Lab Samp ID: G030-06                             Dilution Factor: 1
Lab File ID: RGH324                               Matrix          : SOIL
Ext Btch ID: SVG021S                             % Moisture     : 9.6
Calib. Ref.: RPH072                              Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	224	368.7	60.7	40-130
2-FLUOROBIPHENYL	204	368.7	55.4	45-130
TERPHENYL-D14	327	368.7	88.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-531-SA5C-SB-9.0-10.0           Date Analyzed: 07/17/12 13:45
Lab Samp ID: G030-07                            Dilution Factor: 1
Lab File ID: RGH345                              Matrix          : SOIL
Ext Btch ID: SVG021S                             % Moisture     : 9.5
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	176	368.3	47.7	40-130
2-FLUOROBIPHENYL	184	368.3	49.9	45-130
TERPHENYL-D14	366	368.3	99.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-623-SA5C-SB-4.0-5.0           Date Analyzed: 07/16/12 13:32
Lab Samp ID: G030-08                           Dilution Factor: 1
Lab File ID: RGH326                             Matrix          : SOIL
Ext Btch ID: SVG021S                            % Moisture     : 9.1
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	208	366.7	56.7	40-130
2-FLUOROBIPHENYL	197	366.7	53.8	45-130
TERPHENYL-D14	323	366.7	88.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID    : SL-623-SA5C-SB-9.0-10.0         Date Analyzed: 07/16/12 13:51
Lab Samp ID  : G030-09                           Dilution Factor: 1
Lab File ID  : RGH327                             Matrix          : SOIL
Ext Btch ID  : SVG021S                            % Moisture     : 4.8
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.6
ACENAPHTHYLENE	ND	11	2.6
ANTHRACENE	ND	11	2.6
BENZO (A) ANTHRACENE	ND	11	2.6
BENZO (A) PYRENE	ND	11	2.6
BENZO (B) FLUORANTHENE	ND	11	2.6
BENZO (K) FLUORANTHENE	ND	11	2.6
BENZO (G, H, I) PERYLENE	ND	11	2.6
CHRYSENE	ND	11	2.6
DIBENZO (A, H) ANTHRACENE	ND	11	2.6
FLUORANTHENE	ND	11	2.6
FLUORENE	ND	11	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.6
NAPHTHALENE	ND	11	2.6
PHENANTHRENE	ND	11	2.6
2-METHYLNAPHTHALENE	ND	11	2.6
1-METHYLNAPHTHALENE	ND	11	2.6
N-NITROSODIMETHYLAMINE	ND	11	2.6
PYRENE	ND	11	2.6
AZOBENZENE	ND	5.3	2.6
BENZO (E) PYRENE	ND	5.3	2.6
BIPHENYL	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	183	350.1	52.3	40-130
2-FLUOROBIPHENYL	180	350.1	51.4	45-130
TERPHENYL-D14	233	350.1	66.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-523-SA5C-SB-4.0-5.0           Date Analyzed: 07/16/12 14:10
Lab Samp ID: G030-10                           Dilution Factor: 2
Lab File ID: RGH328                             Matrix          : SOIL
Ext Btch ID: SVG021S                            % Moisture     : 5.7
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.3
ACENAPHTHYLENE	ND	21	5.3
ANTHRACENE	ND	21	5.3
BENZO (A) ANTHRACENE	ND	21	5.3
BENZO (A) PYRENE	ND	21	5.3
BENZO (B) FLUORANTHENE	ND	21	5.3
BENZO (K) FLUORANTHENE	ND	21	5.3
BENZO (G, H, I) PERYLENE	ND	21	5.3
CHRYSENE	ND	21	5.3
DIBENZO (A, H) ANTHRACENE	ND	21	5.3
FLUORANTHENE	ND	21	5.3
FLUORENE	ND	21	5.3
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.3
NAPHTHALENE	ND	21	5.3
PHENANTHRENE	ND	21	5.3
2-METHYLNAPHTHALENE	ND	21	5.3
1-METHYLNAPHTHALENE	ND	21	5.3
N-NITROSODIMETHYLAMINE	ND	21	5.3
PYRENE	ND	21	5.3
AZOBENZENE	ND	11	5.3
BENZO (E) PYRENE	ND	11	5.3
BIPHENYL	ND	11	5.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	194	353.4	54.9	40-130
2-FLUOROBIPHENYL	204	353.4	57.8	45-130
TERPHENYL-D14	272	353.4	77.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-523-SA5C-SB-9.0-10.0          Date Analyzed: 07/16/12 14:29
Lab Samp ID: G030-11                           Dilution Factor: 2
Lab File ID: RGH329                             Matrix          : SOIL
Ext Btch ID: SVG021S                            % Moisture     : 9.0
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	ND	22	5.5
BENZO (A) ANTHRACENE	ND	22	5.5
BENZO (A) PYRENE	ND	22	5.5
BENZO (B) FLUORANTHENE	ND	22	5.5
BENZO (K) FLUORANTHENE	ND	22	5.5
BENZO (G, H, I) PERYLENE	ND	22	5.5
CHRYSENE	ND	22	5.5
DIBENZO (A, H) ANTHRACENE	ND	22	5.5
FLUORANTHENE	ND	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	ND	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	ND	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	ND	11	5.5
BIPHENYL	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	178	366.3	48.7	40-130
2-FLUOROBIPHENYL	194	366.3	53.0	45-130
TERPHENYL-D14	283	366.3	77.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-533-SA5C-SB-4.0-5.0           Date Analyzed: 07/16/12 14:48
Lab Samp ID: G030-12                           Dilution Factor: 1
Lab File ID: RGH330                             Matrix          : SOIL
Ext Btch ID: SVG021S                            % Moisture     : 9.0
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	187	366.3	51.2	40-130
2-FLUOROBIPHENYL	204	366.3	55.6	45-130
TERPHENYL-D14	292	366.3	79.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-533-SA5C-SB-9.0-10.0           Date Analyzed: 07/16/12 15:07
Lab Samp ID: G030-13                           Dilution Factor: 2
Lab File ID: RGH331                            Matrix          : SOIL
Ext Btch ID: SVG021S                           % Moisture     : 9.6
Calib. Ref.: RPH072                            Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	ND	22	5.5
BENZO (A) ANTHRACENE	ND	22	5.5
BENZO (A) PYRENE	ND	22	5.5
BENZO (B) FLUORANTHENE	ND	22	5.5
BENZO (K) FLUORANTHENE	ND	22	5.5
BENZO (G, H, I) PERYLENE	ND	22	5.5
CHRYSENE	ND	22	5.5
DIBENZO (A, H) ANTHRACENE	ND	22	5.5
FLUORANTHENE	ND	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	ND	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	ND	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	ND	11	5.5
BIPHENYL	ND	11	5.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	216	368.7	58.6	40-130
2-FLUOROBIPHENYL	225	368.7	61.1	45-130
TERPHENYL-D14	284	368.7	76.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-754-SA5C-SB-0.0-0.5           Date Analyzed: 07/16/12 15:26
Lab Samp ID: G030-14                           Dilution Factor: 1
Lab File ID: RGH332                            Matrix          : SOIL
Ext Btch ID: SVG021S                          % Moisture     : 5.0
Calib. Ref.: RPH072                            Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.6
ACENAPHTHYLENE	ND	11	2.6
ANTHRACENE	ND	11	2.6
BENZO (A) ANTHRACENE	ND	11	2.6
BENZO (A) PYRENE	ND	11	2.6
BENZO (B) FLUORANTHENE	ND	11	2.6
BENZO (K) FLUORANTHENE	ND	11	2.6
BENZO (G, H, I) PERYLENE	ND	11	2.6
CHRYSENE	ND	11	2.6
DIBENZO (A, H) ANTHRACENE	ND	11	2.6
FLUORANTHENE	ND	11	2.6
FLUORENE	ND	11	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.6
NAPHTHALENE	ND	11	2.6
PHENANTHRENE	ND	11	2.6
2-METHYLNAPHTHALENE	ND	11	2.6
1-METHYLNAPHTHALENE	ND	11	2.6
N-NITROSODIMETHYLAMINE	ND	11	2.6
PYRENE	ND	11	2.6
AZOBENZENE	ND	5.3	2.6
BENZO (E) PYRENE	ND	5.3	2.6
BIPHENYL	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	179	350.8	51.0	40-130
2-FLUOROBIPHENYL	211	350.8	60.1	45-130
TERPHENYL-D14	317	350.8	90.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-754-SA5C-SB-4.0-5.0           Date Analyzed: 07/16/12 15:45
Lab Samp ID: G030-15                           Dilution Factor: 1
Lab File ID: RGH333                             Matrix          : SOIL
Ext Btch ID: SVG021S                           % Moisture     : 10.1
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	174	370.7	46.9	40-130
2-FLUOROBIPHENYL	190	370.7	51.2	45-130
TERPHENYL-D14	304	370.7	82.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/13/1216:59
Sample ID:   SL-754-SA5C-SB-6.5-7.5           Date Analyzed: 07/16/12 16:04
Lab Samp ID: G030-16                           Dilution Factor: 1
Lab File ID: RGH334                             Matrix          : SOIL
Ext Btch ID: SVG021S                            % Moisture     : 5.2
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.6
ACENAPHTHYLENE	ND	11	2.6
ANTHRACENE	ND	11	2.6
BENZO (A) ANTHRACENE	ND	11	2.6
BENZO (A) PYRENE	ND	11	2.6
BENZO (B) FLUORANTHENE	ND	11	2.6
BENZO (K) FLUORANTHENE	ND	11	2.6
BENZO (G, H, I) PERYLENE	ND	11	2.6
CHRYSENE	ND	11	2.6
DIBENZO (A, H) ANTHRACENE	ND	11	2.6
FLUORANTHENE	ND	11	2.6
FLUORENE	ND	11	2.6
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.6
NAPHTHALENE	ND	11	2.6
PHENANTHRENE	ND	11	2.6
2-METHYLNAPHTHALENE	ND	11	2.6
1-METHYLNAPHTHALENE	ND	11	2.6
N-NITROSODIMETHYLAMINE	ND	11	2.6
PYRENE	ND	11	2.6
AZOBENZENE	ND	5.3	2.6
BENZO (E) PYRENE	ND	5.3	2.6
BIPHENYL	ND	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	160	351.6	45.4	40-130
2-FLUOROBIPHENYL	175	351.6	49.7	45-130
TERPHENYL-D14	304	351.6	86.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 07/13/12
Batch No.    : 12G030                             Date Extracted: 07/13/12 16:59
Sample ID    : MBLK1S                             Date Analyzed: 07/16/12 09:46
Lab Samp ID  : SVG021SB                           Dilution Factor: 1
Lab File ID  : RGH314                             Matrix          : SOIL
Ext Btch ID  : SVG021S                             % Moisture      : NA
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	202	333.3	60.6	40-130
2-FLUOROBIPHENYL	205	333.3	61.4	45-130
TERPHENYL-D14	272	333.3	81.6	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G030  
METHOD: METHOD 3550B/8270C SIM

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MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVG021SB SVG021SL SVG021SC  
LAB FILE ID: RGH314 RGH315 RGH316  
DATE EXTRACTED: 07/13/1216:59 07/13/1216:59 07/13/1216:59 DATE COLLECTED: NA  
DATE ANALYZED: 07/16/1209:46 07/16/1210:05 07/16/1210:24 DATE RECEIVED: 07/13/12  
PREP. BATCH: SVG021S SVG021S SVG021S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	296	89	333	287	86	3	10-130	50
Acenaphthylene	ND	333	310	93	333	300	90	3	20-130	50
Anthracene	ND	333	275	83	333	274	82	1	20-130	50
Benzo (a) anthracene	ND	333	302	91	333	307	92	2	30-130	50
Benzo (a) pyrene	ND	333	312	94	333	317	95	2	30-130	50
Benzo (b) fluoranthene	ND	333	332	100	333	335	101	1	40-130	50
Benzo (k) fluoranthene	ND	333	305	92	333	311	93	2	30-140	50
Benzo (g, h, i) perylene	ND	333	314	94	333	320	96	2	30-140	50
Chrysene	ND	333	290	87	333	295	88	2	30-140	50
Dibenzo (a, h) anthracene	ND	333	334	100	333	340	102	2	40-140	50
Fluoranthene	ND	333	307	92	333	309	93	0	30-130	50
Fluorene	ND	333	309	93	333	303	91	2	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	333	100	333	339	102	2	20-160	50
Naphthalene	ND	333	267	80	333	258	77	4	10-130	50
Phenanthrene	ND	333	278	84	333	275	83	1	20-130	50
2-Methylnaphthalene	ND	333	286	86	333	274	82	4	30-150	50
1-Methylnaphthalene	ND	333	291	87	333	278	83	5	30-150	50
N-Nitrosodimethylamine	ND	333	227	68	333	222	66	2	30-150	50
Pyrene	ND	333	300	90	333	302	91	1	20-150	50
Azobenzene	ND	333	281	84	333	277	83	2	30-150	50
Benzo (e) pyrene	ND	333	340	102	333	372	112	9	30-150	50
Biphenyl	ND	333	274	82	333	289	87	5	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	238	71	333	239	72	40-130
2-Fluorobiphenyl	333	249	75	333	248	74	45-130
Terphenyl-d14	333	300	90	333	310	93	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G030  
METHOD: METHOD 3550B/8270C SIM

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MATRIX: SOIL % MOISTURE: 7.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-522-SA5C-SB-4.0-5.0  
LAB SAMP ID: G030-03 G030-03M G030-03S  
LAB FILE ID: RGH344 RGH317 RGH343  
DATE EXTRACTED: 07/13/1216:59 07/13/1216:59 07/13/1216:59 DATE COLLECTED: 07/09/12  
DATE ANALYZED: 07/17/1213:26 07/16/1210:42 07/17/1213:06 DATE RECEIVED: 07/09/12  
PREP. BATCH: SVG021S SVG021S SVG021S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	361	222	62	361	222	62	0	10-130	50
Acenaphthylene	ND	361	232	64	361	232	64	0	20-130	50
Anthracene	ND	361	231	64	361	303	84	27	20-130	50
Benzo (a) anthracene	ND	361	251	69	361	370	102	38	30-130	50
Benzo (a) pyrene	ND	361	253	70	361	373	103	38	30-130	50
Benzo (b) fluoranthene	ND	361	277	77	361	391	108	34	30-130	50
Benzo (k) fluoranthene	ND	361	246	68	361	376	104	42	30-130	50
Benzo (g, h, i) perylene	ND	361	256	71	361	383	106	40	30-140	50
Chrysene	ND	361	243	67	361	355	98	37	20-130	50
Dibenzo (a, h) anthracene	ND	361	272	75	361	403	112	39	30-130	50
Fluoranthene	ND	361	257	71	361	371	103	36	30-150	50
Fluorene	ND	361	241	67	361	255	71	5	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	361	271	75	361	402	111	39	20-160	50
Naphthalene	ND	361	182	50	361	183	51	1	10-130	50
Phenanthrene	ND	361	236	65	361	307	85	26	20-130	50
2-Methylnaphthalene	ND	361	201	56	361	197	55	2	30-150	50
1-Methylnaphthalene	ND	361	206	57	361	201	56	2	30-150	50
N-Nitrosodimethylamine	ND	361	159	44	361	160	44	0	20-150	50
Pyrene	ND	361	251	70	361	364	101	37	10-160	50
Azobenzene	ND	361	226	63	361	259	72	13	30-150	50
Benzo (e) pyrene	ND	361	285	79	361	406	113	35	30-150	50
Biphenyl	ND	361	203	56	361	191	53	6	30-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	361	154	43	361	150	42	40-130
2-Fluorobiphenyl	361	167	46	361	163	45	45-130
Terphenyl-d14	361	234	65	361	347	96	45-135

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID    : SL-530-SA5C-SB-4.0-5.0          Date Analyzed: 07/20/12 17:49
Lab Samp ID  : G030-01                           Dilution Factor: 1
Lab File ID  : SG20008A                         Matrix          : SOIL
Ext Btch ID  : CPG028S                          % Moisture     : 10.9
Calib. Ref.  : SG20002A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(17.30)   16.39	14.96	(116)   110	45-120
TETRACHLORO-M-XYLENE	13.85   (14.43)	14.96	92.6   (96.4)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 07/09/12
Project    : SSFL PHASE 3                       Date Received: 07/09/12
Batch No.  : 12G030                             Date Extracted: 07/16/12 14:01
Sample ID: SL-530-SA5C-SB-9.0-10.0             Date Analyzed: 07/20/12 18:23
Lab Samp ID: G030-02                            Dilution Factor: 1
Lab File ID: SG20009A                           Matrix          : SOIL
Ext Btch ID: CPG028S                             % Moisture     : 4.7
Calib. Ref.: SG20002A                           Instrument ID  : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	10   10	
AROCLOR 1221	(ND)   ND	21	10   10	
AROCLOR 1232	(ND)   ND	21	10   10	
AROCLOR 1242	(ND)   ND	21	10   10	
AROCLOR 1248	(ND)   ND	21	10   10	
AROCLOR 1254	(ND)   ND	21	10   10	
AROCLOR 1260	(ND)   ND	21	10   10	
AROCLOR 1262	(ND)   ND	21	10   10	
AROCLOR 1268	(ND)   ND	21	10   10	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(16.12)   15.49	13.99	(115)   111	45-120
TETRACHLORO-M-XYLENE	14.00   (14.75)	13.99	100   (105)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                       Date Received: 07/09/12
Batch No.    : 12G030                             Date Extracted: 07/16/12 14:01
Sample ID    : SL-522-SA5C-SB-4.0-5.0           Date Analyzed: 07/20/12 18:57
Lab Samp ID  : G030-03                           Dilution Factor: 1
Lab File ID  : SG20010A                          Matrix          : SOIL
Ext Btch ID  : CPG028S                            % Moisture     : 7.7
Calib. Ref.  : SG20002A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(17.17)   16.25	14.44	(119)   112	45-120
TETRACHLORO-M-XYLENE	12.92   (13.58)	14.44	89.5   (94.0)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID    : SL-522-SA5C-SB-9.0-10.0         Date Analyzed: 07/20/12 20:40
Lab Samp ID  : G030-04                           Dilution Factor: 1
Lab File ID  : SG20013A                         Matrix          : SOIL
Ext Btch ID  : CPG028S                          % Moisture     : 7.2
Calib. Ref.  : SG20002A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	17.93   (17.03)	14.36	125*   (119)	45-120
TETRACHLORO-M-XYLENE	12.29   (13.02)	14.36	85.6   (90.6)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID    : SL-822-SA5C-SB-4.0-5.0          Date Analyzed: 07/20/12 21:14
Lab Samp ID  : G030-05                           Dilution Factor: 1
Lab File ID  : SG20014A                         Matrix          : SOIL
Ext Btch ID  : CPG028S                          % Moisture     : 9.4
Calib. Ref.  : SG20002A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(16.99)   16.12	14.71	(115)   110	45-120
TETRACHLORO-M-XYLENE	12.94   (13.65)	14.71	88.0   (92.8)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID    : SL-531-SA5C-SB-4.0-5.0          Date Analyzed: 07/20/12 21:48
Lab Samp ID  : G030-06                         Dilution Factor: 1
Lab File ID  : SG20015A                       Matrix          : SOIL
Ext Btch ID  : CPG028S                        % Moisture     : 9.6
Calib. Ref.  : SG20002A                       Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(16.90)   15.97	14.75	(115)   108	45-120
TETRACHLORO-M-XYLENE	13.71   (14.27)	14.75	93.0   (96.8)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID    : SL-531-SA5C-SB-9.0-10.0         Date Analyzed: 07/21/12 00:39
Lab Samp ID  : G030-07                           Dilution Factor: 1
Lab File ID  : SG20020A                          Matrix          : SOIL
Ext Btch ID  : CPG028S                            % Moisture     : 9.5
Calib. Ref.  : SG20017A                          Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(17.55)   17.07	14.73	(119)   116	45-120
TETRACHLORO-M-XYLENE	14.28   (15.34)	14.73	97.0   (104)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID    : SL-623-SA5C-SB-4.0-5.0          Date Analyzed: 07/21/12 01:14
Lab Samp ID  : G030-08                           Dilution Factor: 1
Lab File ID  : SG20021A                         Matrix          : SOIL
Ext Btch ID  : CPG028S                          % Moisture     : 9.1
Calib. Ref.  : SG20017A                         Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(17.30)   17.97	14.66	(118)   123*	45-120
TETRACHLORO-M-XYLENE	16.15   (17.17)	14.66	110   (117)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID    : SL-623-SA5C-SB-9.0-10.0         Date Analyzed: 07/21/12 01:48
Lab Samp ID  : G030-09                           Dilution Factor: 1
Lab File ID  : SG20022A                         Matrix          : SOIL
Ext Btch ID  : CPG028S                          % Moisture     : 4.8
Calib. Ref.  : SG20017A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.82)   14.68	14.00	(106)   105	45-120
TETRACHLORO-M-XYLENE	14.24   (15.31)	14.00	102   (109)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID:   SL-523-SA5C-SB-4.0-5.0           Date Analyzed: 07/21/12 02:22
Lab Samp ID: G030-10                           Dilution Factor: 1
Lab File ID: SG20023A                          Matrix          : SOIL
Ext Btch ID: CPG028S                            % Moisture     : 5.7
Calib. Ref.: SG20017A                          Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.80)   14.63	14.14	(105)   103	45-120
TETRACHLORO-M-XYLENE	14.71   (15.69)	14.14	104   (111)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID    : SL-523-SA5C-SB-9.0-10.0         Date Analyzed: 07/21/12 02:56
Lab Samp ID  : G030-11                          Dilution Factor: 1
Lab File ID  : SG20024A                        Matrix          : SOIL
Ext Btch ID  : CPG028S                         % Moisture     : 9.0
Calib. Ref.  : SG20017A                       Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.66)   15.51	14.65	(107)   106	45-120
TETRACHLORO-M-XYLENE	15.20   (16.40)	14.65	104   (112)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 07/09/12
Project    : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.  : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID: SL-533-SA5C-SB-4.0-5.0           Date Analyzed: 07/21/12 03:30
Lab Samp ID: G030-12                         Dilution Factor: 1
Lab File ID: SG20025A                       Matrix          : SOIL
Ext Btch ID: CPG028S                        % Moisture     : 9.0
Calib. Ref.: SG20017A                       Instrument ID  : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.15)   15.79	14.65	(110)   108	45-120
TETRACHLORO-M-XYLENE	14.90   (15.99)	14.65	102   (109)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID    : SL-533-SA5C-SB-9.0-10.0         Date Analyzed: 07/21/12 04:05
Lab Samp ID  : G030-13                          Dilution Factor: 1
Lab File ID  : SG20026A                         Matrix          : SOIL
Ext Btch ID  : CPG028S                          % Moisture     : 9.6
Calib. Ref.  : SG20017A                         Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.60)   15.50	14.75	(106)   105	45-120
TETRACHLORO-M-XYLENE	15.33   (16.50)	14.75	104   (112)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID:   SL-754-SA5C-SB-0.0-0.5            Date Analyzed: 07/21/12 04:39
Lab Samp ID: G030-14                            Dilution Factor: 1
Lab File ID: SG20027A                          Matrix          : SOIL
Ext Btch ID: CPG028S                           % Moisture     : 5.0
Calib. Ref.: SG20017A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.90)   15.65	14.03	(113)   112	45-120
TETRACHLORO-M-XYLENE	14.76   (15.91)	14.03	105   (113)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID:   SL-754-SA5C-SB-4.0-5.0           Date Analyzed: 07/21/12 05:13
Lab Samp ID: G030-15                           Dilution Factor: 1
Lab File ID: SG20028A                          Matrix          : SOIL
Ext Btch ID: CPG028S                            % Moisture     : 10.1
Calib. Ref.: SG20017A                          Instrument ID  : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(17.78)   17.19	14.83	(120)   116	45-120
TETRACHLORO-M-XYLENE	14.48   (15.54)	14.83	97.7   (105)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
Batch No.    : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID    : SL-754-SA5C-SB-6.5-7.5          Date Analyzed: 07/21/12 05:47
Lab Samp ID  : G030-16                           Dilution Factor: 1
Lab File ID  : SG20029A                         Matrix          : SOIL
Ext Btch ID  : CPG028S                          % Moisture     : 5.2
Calib. Ref.  : SG20017A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	(16.44)   16.02	14.06	(117)   114	45-120
TETRACHLORO-M-XYLENE	13.51   (14.47)	14.06	96.1   (103)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 07/16/12
Batch No.   : 12G030                           Date Extracted: 07/16/12 14:01
Sample ID   : MBLK1S                           Date Analyzed: 07/20/12 16:06
Lab Samp ID: 60G028SB                          Dilution Factor: 1
Lab File ID: SG20005A                          Matrix          : SOIL
Ext Btch ID: CPG028S                           % Moisture     : NA
Calib. Ref.: SG20002A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.15)   14.24	13.33	(114)   107	45-120
TETRACHLORO-M-XYLENE	11.15   (11.83)	13.33	83.7   (88.8)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G030  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60G028SB 60G028SL 60G028SC  
LAB FILE ID: SG20005A SG20006A SG20007A  
DATE EXTRACTED: 07/16/1214:01 07/16/1214:01 07/16/1214:01 DATE COLLECTED: NA  
DATE ANALYZED: 07/20/1216:06 07/20/1216:40 07/20/1217:14 DATE RECEIVED: 07/16/12  
PREP. BATCH: CPG028S CPG028S CPG028S  
CALIB. REF: SG20002A SG20002A SG20002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(173)   160	(104)   96	167	(176)   164	(106)   98	(2)   2	50-130	50
Aroclor 1260	(ND)   ND	167	(196)   183	(118)   110	167	(194)   183	(116)   110	(1)   0	60-150	50
Aroclor 5460	(ND)   ND	83.3	(109)   96.3	(131)   116	83.3	(91.3)   82.5	(110)   99	(18)   15	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	16.39   (15.38)	123*   (115)	13.33	(15.83)   15.02	(119)   113	45-120
Tetrachloro-m-xylene	13.33	12.62   (12.91)	94.7   (96.8)	13.33	12.63   (13.00)	94.7   (97.5)	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G030  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: 7.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-522-SA5C-SB-4.0-5.0  
LAB SAMP ID: G030-03 G030-03M G030-03S  
LAB FILE ID: SG20010A SG20011A SG20012A  
DATE EXTRACTED: 07/16/1214:01 07/16/1214:01 07/16/1214:01 DATE COLLECTED: 07/09/12  
DATE ANALYZED: 07/20/1218:57 07/20/1219:31 07/20/1220:06 DATE RECEIVED: 07/09/12  
PREP. BATCH: CPG028S CPG028S CPG028S  
CALIB. REF: SG20002A SG20002A SG20002A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	181	(191)   176	(106)   97	181	(187)   171	(104)   95	(2)   3	20-160	50
Aroclor 1260	(ND)   ND	181	(214)   198	(118)   110	181	(210)   195	(116)   108	(2)   2	20-160	50
Aroclor 5460	(ND)   ND	90.3	(106)   91.0	(117)   101	90.3	(113)   112	(125)   124	(6)   21	20-160	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.44	18.29   (17.00)	127*   (118)	14.44	(17.15)   16.35	(119)   113	45-120
Tetrachloro-m-xylene	14.44	14.13   (14.40)	97.8   (99.7)	14.44	13.38   (13.59)	92.7   (94.1)	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/09/12
Project    : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.    : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID  : SL-530-SA5C-SB-4.0-5.0          Date Analyzed: 07/23/12 14:01
Lab Samp ID: G030-01                           Dilution Factor: 0.952
Lab File ID: 98G06027                           Matrix          : SOIL
Ext Btch ID: IMG019S                             % Moisture      : 10.9
Calib. Ref.: 98G06017                           Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18500	107	12.8
Antimony	0.223J	0.534	0.107
Arsenic	5.20	0.534	0.214
Barium	130	0.534	0.214
Beryllium	0.809	0.534	0.0534
Boron	ND	5.34	2.67
Cadmium	0.147J	0.534	0.0534
Calcium	2630	21.4	10.7
Chromium	21.1	0.534	0.214
Cobalt	6.17	0.534	0.0534
Copper	7.88	0.534	0.214
Iron	22400	107	10.7
Lead	6.56	0.534	0.107
Magnesium	4380	10.7	5.34
Manganese	231	0.534	0.267
Molybdenum	0.643	0.534	0.0534
Nickel	11.0	0.534	0.214
Potassium	1470	107	32.1
Selenium	ND	0.534	0.214
Silver	ND	0.534	0.0534
Sodium	111	107	53.4
Strontium	29.0	0.534	0.267
Thallium	0.247J	0.427	0.0534
Tin	ND	10.7	5.34
Titanium	957	1.07	0.534
Vanadium	41.9	0.534	0.0534
Zinc	43.4	5.34	1.60
Lithium	16.5	2.14	1.07
Phosphorus	101	12.8	6.41
Zirconium	ND	5.34	2.67

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/09/12
Project     : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.    : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID:  SL-530-SA5C-SB-9.0-10.0          Date Analyzed: 07/23/12 14:20
Lab Samp ID: G030-02                          Dilution Factor: 0.985
Lab File ID: 98G06031                         Matrix          : SOIL
Ext Btch ID: IMG019S                           % Moisture     : 4.7
Calib. Ref.: 98G06029                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8850	103	12.4
Antimony	0.107J	0.517	0.103
Arsenic	3.63	0.517	0.207
Barium	83.8	0.517	0.207
Beryllium	0.367J	0.517	0.0517
Boron	ND	5.17	2.58
Cadmium	0.126J	0.517	0.0517
Calcium	2530	20.7	10.3
Chromium	13.1	0.517	0.207
Cobalt	4.52	0.517	0.0517
Copper	5.58	0.517	0.207
Iron	18200	103	10.3
Lead	3.35	0.517	0.103
Magnesium	4480	10.3	5.17
Manganese	226	0.517	0.258
Molybdenum	0.227J	0.517	0.0517
Nickel	9.66	0.517	0.207
Potassium	1560	103	31.0
Selenium	ND	0.517	0.207
Silver	ND	0.517	0.0517
Sodium	103	103	51.7
Strontium	19.4	0.517	0.258
Thallium	0.191J	0.413	0.0517
Tin	ND	10.3	5.17
Titanium	887	1.03	0.517
Vanadium	25.6	0.517	0.0517
Zinc	51.1	5.17	1.55
Lithium	27.3	2.07	1.03
Phosphorus	302	12.4	6.20
Zirconium	ND	5.17	2.58

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.     : 12G030                            Date Extracted: 07/16/12 11:30
Sample ID   : SL-522-SA5C-SB-4.0-5.0          Date Analyzed: 07/23/12 13:52
Lab Samp ID : G030-03                           Dilution Factor: 0.990
Lab File ID : 98G06025                          Matrix          : SOIL
Ext Btch ID : IMG019S                            % Moisture     : 7.7
Calib. Ref. : 98G06017                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15800	107	12.9
Antimony	0.200J	0.536	0.107
Arsenic	4.72	0.536	0.215
Barium	136	0.536	0.215
Beryllium	0.749	0.536	0.0536
Boron	ND	5.36	2.68
Cadmium	0.246J	0.536	0.0536
Calcium	2750	21.5	10.7
Chromium	21.3	0.536	0.215
Cobalt	5.72	0.536	0.0536
Copper	9.69	0.536	0.215
Iron	22200	107	10.7
Lead	6.30	0.536	0.107
Magnesium	4580	10.7	5.36
Manganese	255	0.536	0.268
Molybdenum	0.512J	0.536	0.0536
Nickel	13.4	0.536	0.215
Potassium	1900	107	32.2
Selenium	ND	0.536	0.215
Silver	0.0616J	0.536	0.0536
Sodium	139	107	53.6
Strontium	29.6	0.536	0.268
Thallium	0.260J	0.429	0.0536
Tin	ND	10.7	5.36
Titanium	843	1.07	0.536
Vanadium	38.9	0.536	0.0536
Zinc	51.9	5.36	1.61
Lithium	21.1	2.15	1.07
Phosphorus	155	12.9	6.44
Zirconium	ND	5.36	2.68

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.     : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID   : SL-522-SA5C-SB-9.0-10.0         Date Analyzed: 07/23/12 14:24
Lab Samp ID : G030-04                           Dilution Factor: 0.976
Lab File ID : 98G06032                         Matrix          : SOIL
Ext Btch ID : IMG019S                          % Moisture     : 7.2
Calib. Ref. : 98G06029                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9130	105	12.6
Antimony	0.117J	0.526	0.105
Arsenic	4.22	0.526	0.210
Barium	63.3	0.526	0.210
Beryllium	0.404J	0.526	0.0526
Boron	ND	5.26	2.63
Cadmium	0.165J	0.526	0.0526
Calcium	2450	21.0	10.5
Chromium	13.6	0.526	0.210
Cobalt	4.64	0.526	0.0526
Copper	6.41	0.526	0.210
Iron	17300	105	10.5
Lead	3.39	0.526	0.105
Magnesium	3900	10.5	5.26
Manganese	264	0.526	0.263
Molybdenum	0.393J	0.526	0.0526
Nickel	9.44	0.526	0.210
Potassium	1840	105	31.6
Selenium	ND	0.526	0.210
Silver	ND	0.526	0.0526
Sodium	92.3J	105	52.6
Strontium	15.1	0.526	0.263
Thallium	0.189J	0.421	0.0526
Tin	ND	10.5	5.26
Titanium	811	1.05	0.526
Vanadium	26.6	0.526	0.0526
Zinc	47.1	5.26	1.58
Lithium	20.9	2.10	1.05
Phosphorus	283	12.6	6.31
Zirconium	ND	5.26	2.63

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/09/12
Project     : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.    : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID:  SL-822-SA5C-SB-4.0-5.0           Date Analyzed: 07/23/12 14:29
Lab Samp ID: G030-05                         Dilution Factor: 0.962
Lab File ID: 98G06033                        Matrix          : SOIL
Ext Btch ID: IMG019S                         % Moisture     : 9.4
Calib. Ref.: 98G06029                        Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17800	106	12.7
Antimony	0.167J	0.531	0.106
Arsenic	5.53	0.531	0.212
Barium	141	0.531	0.212
Beryllium	0.791	0.531	0.0531
Boron	ND	5.31	2.65
Cadmium	0.267J	0.531	0.0531
Calcium	2920	21.2	10.6
Chromium	22.0	0.531	0.212
Cobalt	6.50	0.531	0.0531
Copper	9.76	0.531	0.212
Iron	23600	106	10.6
Lead	6.50	0.531	0.106
Magnesium	5050	10.6	5.31
Manganese	332	0.531	0.265
Molybdenum	0.447J	0.531	0.0531
Nickel	14.9	0.531	0.212
Potassium	1930	106	31.9
Selenium	ND	0.531	0.212
Silver	0.0620J	0.531	0.0531
Sodium	154	106	53.1
Strontium	30.6	0.531	0.265
Thallium	0.277J	0.425	0.0531
Tin	ND	10.6	5.31
Titanium	965	1.06	0.531
Vanadium	41.4	0.531	0.0531
Zinc	55.1	5.31	1.59
Lithium	25.9	2.12	1.06
Phosphorus	179	12.7	6.37
Zirconium	ND	5.31	2.65

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/09/12
Project    : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.    : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID  : SL-531-SA5C-SB-4.0-5.0          Date Analyzed: 07/23/12 14:33
Lab Samp ID: G030-06                           Dilution Factor: 0.980
Lab File ID: 98G06034                           Matrix          : SOIL
Ext Btch ID: IMG019S                             % Moisture     : 9.6
Calib. Ref.: 98G06029                           Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17500	108	13.0
Antimony	0.181J	0.542	0.108
Arsenic	5.15	0.542	0.217
Barium	119	0.542	0.217
Beryllium	0.896	0.542	0.0542
Boron	ND	5.42	2.71
Cadmium	0.231J	0.542	0.0542
Calcium	5860	21.7	10.8
Chromium	22.3	0.542	0.217
Cobalt	9.23	0.542	0.0542
Copper	8.74	0.542	0.217
Iron	23900	108	10.8
Lead	8.16	0.542	0.108
Magnesium	4640	10.8	5.42
Manganese	427	0.542	0.271
Molybdenum	0.196J	0.542	0.0542
Nickel	17.4	0.542	0.217
Potassium	1270	108	32.5
Selenium	ND	0.542	0.217
Silver	0.0804J	0.542	0.0542
Sodium	264	108	54.2
Strontium	34.3	0.542	0.271
Thallium	0.239J	0.434	0.0542
Tin	ND	10.8	5.42
Titanium	697	1.08	0.542
Vanadium	39.9	0.542	0.0542
Zinc	43.2	5.42	1.63
Lithium	24.2	2.17	1.08
Phosphorus	67.5	13.0	6.50
Zirconium	ND	5.42	2.71

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/09/12
Project    : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.    : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID: SL-531-SA5C-SB-9.0-10.0          Date Analyzed: 07/23/12 14:38
Lab Samp ID: G030-07                         Dilution Factor: 0.980
Lab File ID: 98G06035                        Matrix          : SOIL
Ext Btch ID: IMG019S                         % Moisture     : 9.5
Calib. Ref.: 98G06029                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13900	108	13.0
Antimony	0.149J	0.541	0.108
Arsenic	4.84	0.541	0.217
Barium	84.4	0.541	0.217
Beryllium	0.587	0.541	0.0541
Boron	ND	5.41	2.71
Cadmium	0.251J	0.541	0.0541
Calcium	3830	21.7	10.8
Chromium	18.8	0.541	0.217
Cobalt	5.47	0.541	0.0541
Copper	8.96	0.541	0.217
Iron	20000	108	10.8
Lead	5.10	0.541	0.108
Magnesium	4030	10.8	5.41
Manganese	310	0.541	0.271
Molybdenum	0.655	0.541	0.0541
Nickel	14.1	0.541	0.217
Potassium	2320	108	32.5
Selenium	ND	0.541	0.217
Silver	0.0569J	0.541	0.0541
Sodium	167	108	54.1
Strontium	25.7	0.541	0.271
Thallium	0.252J	0.433	0.0541
Tin	ND	10.8	5.41
Titanium	871	1.08	0.541
Vanadium	33.8	0.541	0.0541
Zinc	49.3	5.41	1.62
Lithium	22.0	2.17	1.08
Phosphorus	207	13.0	6.50
Zirconium	ND	5.41	2.71

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/09/12
Project    : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.    : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID: SL-623-SA5C-SB-4.0-5.0           Date Analyzed: 07/23/12 14:42
Lab Samp ID: G030-08                          Dilution Factor: 0.976
Lab File ID: 98G06036                         Matrix          : SOIL
Ext Btch ID: IMG019S                           % Moisture     : 9.1
Calib. Ref.: 98G06029                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19000	107	12.9
Antimony	0.186J	0.537	0.107
Arsenic	4.64	0.537	0.215
Barium	129	0.537	0.215
Beryllium	0.792	0.537	0.0537
Boron	ND	5.37	2.68
Cadmium	0.153J	0.537	0.0537
Calcium	3130	21.5	10.7
Chromium	19.9	0.537	0.215
Cobalt	5.56	0.537	0.0537
Copper	6.09	0.537	0.215
Iron	21300	107	10.7
Lead	6.22	0.537	0.107
Magnesium	4060	10.7	5.37
Manganese	198	0.537	0.268
Molybdenum	0.358J	0.537	0.0537
Nickel	10.6	0.537	0.215
Potassium	1380	107	32.2
Selenium	ND	0.537	0.215
Silver	0.0551J	0.537	0.0537
Sodium	229	107	53.7
Strontium	33.7	0.537	0.268
Thallium	0.234J	0.429	0.0537
Tin	ND	10.7	5.37
Titanium	753	1.07	0.537
Vanadium	38.1	0.537	0.0537
Zinc	38.2	5.37	1.61
Lithium	16.6	2.15	1.07
Phosphorus	74.7	12.9	6.44
Zirconium	ND	5.37	2.68

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/09/12
Project    : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.    : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID: SL-623-SA5C-SB-9.0-10.0          Date Analyzed: 07/23/12 14:47
Lab Samp ID: G030-09                         Dilution Factor: 0.985
Lab File ID: 98G06037                       Matrix          : SOIL
Ext Btch ID: IMG019S                        % Moisture     : 4.8
Calib. Ref.: 98G06029                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12400	103	12.4
Antimony	0.144J	0.517	0.103
Arsenic	5.00	0.517	0.207
Barium	78.1	0.517	0.207
Beryllium	0.451J	0.517	0.0517
Boron	ND	5.17	2.59
Cadmium	0.147J	0.517	0.0517
Calcium	2950	20.7	10.3
Chromium	15.7	0.517	0.207
Cobalt	4.38	0.517	0.0517
Copper	8.12	0.517	0.207
Iron	17700	103	10.3
Lead	4.51	0.517	0.103
Magnesium	3690	10.3	5.17
Manganese	197	0.517	0.259
Molybdenum	0.439J	0.517	0.0517
Nickel	9.11	0.517	0.207
Potassium	1730	103	31.0
Selenium	ND	0.517	0.207
Silver	ND	0.517	0.0517
Sodium	263	103	51.7
Strontium	22.5	0.517	0.259
Thallium	0.190J	0.414	0.0517
Tin	ND	10.3	5.17
Titanium	732	1.03	0.517
Vanadium	29.6	0.517	0.0517
Zinc	43.9	5.17	1.55
Lithium	19.4	2.07	1.03
Phosphorus	207	12.4	6.21
Zirconium	ND	5.17	2.59

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.     : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID   : SL-523-SA5C-SB-4.0-5.0          Date Analyzed: 07/23/12 14:51
Lab Samp ID : G030-10                          Dilution Factor: 0.971
Lab File ID : 98G06038                        Matrix         : SOIL
Ext Btch ID : IMG019S                         % Moisture    : 5.7
Calib. Ref. : 98G06029                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16300	103	12.4
Antimony	0.171J	0.515	0.103
Arsenic	3.58	0.515	0.206
Barium	141	0.515	0.206
Beryllium	0.701	0.515	0.0515
Boron	5.50	5.15	2.57
Cadmium	0.226J	0.515	0.0515
Calcium	8460	20.6	10.3
Chromium	20.1	0.515	0.206
Cobalt	7.51	0.515	0.0515
Copper	6.84	0.515	0.206
Iron	20500	103	10.3
Lead	7.39	0.515	0.103
Magnesium	4180	10.3	5.15
Manganese	403	0.515	0.257
Molybdenum	0.350J	0.515	0.0515
Nickel	12.5	0.515	0.206
Potassium	1520	103	30.9
Selenium	ND	0.515	0.206
Silver	0.0584J	0.515	0.0515
Sodium	119	103	51.5
Strontium	33.4	0.515	0.257
Thallium	0.227J	0.412	0.0515
Tin	ND	10.3	5.15
Titanium	697	1.03	0.515
Vanadium	34.6	0.515	0.0515
Zinc	40.5	5.15	1.54
Lithium	21.0	2.06	1.03
Phosphorus	128	12.4	6.18
Zirconium	ND	5.15	2.57

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/09/12
Project    : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.    : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID  : SL-523-SA5C-SB-9.0-10.0         Date Analyzed: 07/23/12 14:56
Lab Samp ID: G030-11                          Dilution Factor: 0.995
Lab File ID: 98G06039                         Matrix          : SOIL
Ext Btch ID: IMG019S                          % Moisture     : 9.0
Calib. Ref.: 98G06029                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12000	109	13.1
Antimony	0.132J	0.547	0.109
Arsenic	4.22	0.547	0.219
Barium	77.3	0.547	0.219
Beryllium	0.580	0.547	0.0547
Boron	ND	5.47	2.73
Cadmium	0.192J	0.547	0.0547
Calcium	10300	21.9	10.9
Chromium	16.8	0.547	0.219
Cobalt	5.22	0.547	0.0547
Copper	7.36	0.547	0.219
Iron	17800	109	10.9
Lead	4.90	0.547	0.109
Magnesium	3690	10.9	5.47
Manganese	244	0.547	0.273
Molybdenum	0.710	0.547	0.0547
Nickel	10.1	0.547	0.219
Potassium	1950	109	32.8
Selenium	ND	0.547	0.219
Silver	ND	0.547	0.0547
Sodium	125	109	54.7
Strontium	34.1	0.547	0.273
Thallium	0.212J	0.437	0.0547
Tin	ND	10.9	5.47
Titanium	832	1.09	0.547
Vanadium	30.9	0.547	0.0547
Zinc	39.8	5.47	1.64
Lithium	17.5	2.19	1.09
Phosphorus	177	13.1	6.56
Zirconium	ND	5.47	2.73

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/09/12
Project    : SSFL PHASE 3                       Date Received: 07/09/12
SDG NO.    : 12G030                             Date Extracted: 07/16/12 11:30
Sample ID: SL-533-SA5C-SB-4.0-5.0             Date Analyzed: 07/23/12 15:14
Lab Samp ID: G030-12                           Dilution Factor: 0.985
Lab File ID: 98G06043                           Matrix          : SOIL
Ext Btch ID: IMG019S                            % Moisture      : 9.0
Calib. Ref.: 98G06041                           Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18800	108	13.0
Antimony	0.189J	0.541	0.108
Arsenic	5.66	0.541	0.216
Barium	164	0.541	0.216
Beryllium	0.895	0.541	0.0541
Boron	ND	5.41	2.71
Cadmium	0.217J	0.541	0.0541
Calcium	24000	21.6	10.8
Chromium	21.1	0.541	0.216
Cobalt	13.6	0.541	0.0541
Copper	7.21	0.541	0.216
Iron	21900	108	10.8
Lead	7.73	0.541	0.108
Magnesium	4400	10.8	5.41
Manganese	432	0.541	0.271
Molybdenum	0.311J	0.541	0.0541
Nickel	15.9	0.541	0.216
Potassium	1180	108	32.5
Selenium	ND	0.541	0.216
Silver	0.0599J	0.541	0.0541
Sodium	242	108	54.1
Strontium	57.9	0.541	0.271
Thallium	0.204J	0.433	0.0541
Tin	ND	10.8	5.41
Titanium	654	1.08	0.541
Vanadium	40.4	0.541	0.0541
Zinc	40.7	5.41	1.62
Lithium	29.2	2.16	1.08
Phosphorus	79.7	13.0	6.49
Zirconium	ND	5.41	2.71

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/09/12
Project     : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.    : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID:  SL-533-SA5C-SB-9.0-10.0          Date Analyzed: 07/23/12 15:19
Lab Samp ID: G030-13                          Dilution Factor: 0.990
Lab File ID: 98G06044                         Matrix          : SOIL
Ext Btch ID: IMG019S                          % Moisture     : 9.6
Calib. Ref.: 98G06041                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13900	110	13.1
Antimony	0.209J	0.548	0.110
Arsenic	5.40	0.548	0.219
Barium	137	0.548	0.219
Beryllium	0.663	0.548	0.0548
Boron	ND	5.48	2.74
Cadmium	0.626	0.548	0.0548
Calcium	10300	21.9	11.0
Chromium	19.7	0.548	0.219
Cobalt	11.0	0.548	0.0548
Copper	10.1	0.548	0.219
Iron	22300	110	11.0
Lead	7.47	0.548	0.110
Magnesium	4460	11.0	5.48
Manganese	1050	0.548	0.274
Molybdenum	0.702	0.548	0.0548
Nickel	33.8	0.548	0.219
Potassium	2060	110	32.9
Selenium	ND	0.548	0.219
Silver	ND	0.548	0.0548
Sodium	171	110	54.8
Strontium	40.5	0.548	0.274
Thallium	0.258J	0.438	0.0548
Tin	ND	11.0	5.48
Titanium	866	1.10	0.548
Vanadium	38.0	0.548	0.0548
Zinc	52.3	5.48	1.64
Lithium	22.4	2.19	1.10
Phosphorus	230	13.1	6.57
Zirconium	ND	5.48	2.74

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/09/12
Project      : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.     : 12G030                            Date Extracted: 07/16/12 11:30
Sample ID   : SL-754-SA5C-SB-0.0-0.5          Date Analyzed: 07/23/12 15:23
Lab Samp ID : G030-14                           Dilution Factor: 0.980
Lab File ID : 98G06045                          Matrix          : SOIL
Ext Btch ID : IMG019S                            % Moisture     : 5.0
Calib. Ref. : 98G06041                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17600	103	12.4
Antimony	0.137J	0.516	0.103
Arsenic	4.27	0.516	0.206
Barium	134	0.516	0.206
Beryllium	0.744	0.516	0.0516
Boron	3.42J	5.16	2.58
Cadmium	0.222J	0.516	0.0516
Calcium	2630	20.6	10.3
Chromium	20.8	0.516	0.206
Cobalt	5.99	0.516	0.0516
Copper	8.40	0.516	0.206
Iron	20800	103	10.3
Lead	6.37	0.516	0.103
Magnesium	4150	10.3	5.16
Manganese	288	0.516	0.258
Molybdenum	0.498J	0.516	0.0516
Nickel	12.7	0.516	0.206
Potassium	2110	103	30.9
Selenium	ND	0.516	0.206
Silver	0.0560J	0.516	0.0516
Sodium	90.1J	103	51.6
Strontium	26.0	0.516	0.258
Thallium	0.253J	0.413	0.0516
Tin	ND	10.3	5.16
Titanium	832	1.03	0.516
Vanadium	37.3	0.516	0.0516
Zinc	48.4	5.16	1.55
Lithium	19.5	2.06	1.03
Phosphorus	177	12.4	6.19
Zirconium	ND	5.16	2.58

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/09/12
Project     : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.    : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID   : SL-754-SA5C-SB-4.0-5.0         Date Analyzed: 07/23/12 15:28
Lab Samp ID: G030-15                          Dilution Factor: 0.980
Lab File ID: 98G06046                        Matrix          : SOIL
Ext Btch ID: IMG019S                         % Moisture     : 10.1
Calib. Ref.: 98G06041                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16800	109	13.1
Antimony	0.195J	0.545	0.109
Arsenic	5.42	0.545	0.218
Barium	111	0.545	0.218
Beryllium	0.724	0.545	0.0545
Boron	ND	5.45	2.73
Cadmium	0.222J	0.545	0.0545
Calcium	3460	21.8	10.9
Chromium	23.1	0.545	0.218
Cobalt	7.79	0.545	0.0545
Copper	10.1	0.545	0.218
Iron	23700	109	10.9
Lead	6.97	0.545	0.109
Magnesium	5410	10.9	5.45
Manganese	350	0.545	0.273
Molybdenum	0.576	0.545	0.0545
Nickel	14.2	0.545	0.218
Potassium	1590	109	32.7
Selenium	ND	0.545	0.218
Silver	0.0768J	0.545	0.0545
Sodium	138	109	54.5
Strontium	31.0	0.545	0.273
Thallium	0.265J	0.436	0.0545
Tin	ND	10.9	5.45
Titanium	930	1.09	0.545
Vanadium	40.4	0.545	0.0545
Zinc	53.0	5.45	1.64
Lithium	27.1	2.18	1.09
Phosphorus	186	13.1	6.54
Zirconium	ND	5.45	2.73

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/09/12
Project     : SSFL PHASE 3                     Date Received: 07/09/12
SDG NO.    : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID:  SL-754-SA5C-SB-6.5-7.5           Date Analyzed: 07/23/12 15:33
Lab Samp ID: G030-16                          Dilution Factor: 0.957
Lab File ID: 98G06047                         Matrix          : SOIL
Ext Btch ID: IMG019S                          % Moisture     : 5.2
Calib. Ref.: 98G06041                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	8120	101	12.1
Antimony	0.109J	0.505	0.101
Arsenic	3.99	0.505	0.202
Barium	56.1	0.505	0.202
Beryllium	0.322J	0.505	0.0505
Boron	ND	5.05	2.52
Cadmium	0.104J	0.505	0.0505
Calcium	1980	20.2	10.1
Chromium	11.8	0.505	0.202
Cobalt	3.75	0.505	0.0505
Copper	5.67	0.505	0.202
Iron	14900	101	10.1
Lead	3.36	0.505	0.101
Magnesium	3360	10.1	5.05
Manganese	200	0.505	0.252
Molybdenum	0.246J	0.505	0.0505
Nickel	7.52	0.505	0.202
Potassium	1490	101	30.3
Selenium	ND	0.505	0.202
Silver	ND	0.505	0.0505
Sodium	92.9J	101	50.5
Strontium	15.1	0.505	0.252
Thallium	0.181J	0.404	0.0505
Tin	ND	10.1	5.05
Titanium	734	1.01	0.505
Vanadium	23.7	0.505	0.0505
Zinc	39.4	5.05	1.51
Lithium	18.0	2.02	1.01
Phosphorus	239	12.1	6.06
Zirconium	ND	5.05	2.52

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/16/12
SDG NO.     : 12G030                           Date Extracted: 07/16/12 11:30
Sample ID   : MBLK1S                            Date Analyzed: 07/23/12 13:25
Lab Samp ID : IMG019SB                         Dilution Factor: 1
Lab File ID : 98G06019                        Matrix          : SOIL
Ext Btch ID : IMG019S                          % Moisture     : NA
Calib. Ref. : 98G06017                        Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G030  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMG019SB IMG019SL IMG019SC  
LAB FILE ID: 98G06019 98G06020 98G06021  
DATIME EXTRACTD: 07/16/1211:30 07/16/1211:30 07/16/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 07/23/1213:25 07/23/1213:30 07/23/1213:34 DATE RECEIVED: 07/16/12  
PREP. BATCH: IMG019S IMG019S IMG019S  
CALIB. REF: 98G06017 98G06017 98G06017

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2460	98	2500	2420	97	1	80-120	20
Antimony	ND	25.0	24.7	99	25.0	24.4	97	1	80-120	20
Arsenic	ND	25.0	23.8	95	25.0	23.7	95	0	80-120	20
Barium	ND	25.0	25.1	100	25.0	24.7	99	2	80-120	20
Beryllium	ND	25.0	25.3	101	25.0	24.6	99	3	80-120	20
Boron	ND	25.0	25.8	103	25.0	25.4	101	2	80-120	20
Cadmium	ND	25.0	24.5	98	25.0	24.3	97	1	80-120	20
Calcium	ND	2500	2570	103	2500	2490	100	3	80-120	20
Chromium	ND	25.0	24.2	97	25.0	23.9	96	1	80-120	20
Cobalt	ND	25.0	24.3	97	25.0	24.3	97	0	80-120	20
Copper	ND	25.0	24.1	96	25.0	23.7	95	2	80-120	20
Iron	ND	2500	2540	102	2500	2520	101	1	80-120	20
Lead	ND	25.0	24.7	99	25.0	24.1	97	2	80-120	20
Magnesium	ND	2500	2490	99	2500	2420	97	3	80-120	20
Manganese	ND	25.0	24.8	99	25.0	24.5	98	1	80-120	20
Molybdenum	ND	25.0	24.3	97	25.0	24.0	96	1	80-120	20
Nickel	ND	25.0	24.0	96	25.0	23.7	95	1	80-120	20
Potassium	ND	2500	2520	101	2500	2500	100	1	80-120	20
Selenium	ND	25.0	23.5	94	25.0	23.0	92	2	80-120	20
Silver	ND	25.0	24.3	97	25.0	24.3	97	0	80-120	20
Sodium	ND	2500	2450	98	2500	2410	96	2	80-120	20
Strontium	ND	25.0	24.7	99	25.0	24.5	98	1	80-120	20
Thallium	ND	25.0	24.3	97	25.0	23.9	96	2	80-120	20
Tin	ND	25.0	26.5	106	25.0	26.3	105	1	80-120	20
Titanium	ND	25.0	24.6	99	25.0	24.5	98	1	80-120	20
Vanadium	ND	25.0	24.0	96	25.0	23.7	95	1	80-120	20
Zinc	ND	50.0	47.0	94	50.0	46.5	93	1	80-120	20
Lithium	ND	25.0	25.1	101	25.0	24.5	98	3	80-120	20
Phosphorus	ND	250	228	91	250	226	91	1	80-120	20
Zirconium	ND	25.0	25.3	101	25.0	25.2	101	0	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G030  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 7.7  
DILTN FACTR: 0.990 0.990 0.966  
SAMPLE ID: SL-522-SA5C-SB-4.0-5.0  
CONTROL NO.: G030-03 G030-03M G030-03S  
LAB FILE ID: 98G06025 98G06022 98G06023  
DATIME EXTRACTD: 07/16/1211:30 07/16/1211:30 07/16/1211:30 DATE COLLECTED: 07/09/12  
DATIME ANALYZD: 07/23/1213:52 07/23/1213:39 07/23/1213:43 DATE RECEIVED: 07/09/12  
PREP. BATCH: IMG019S IMG019S IMG019S  
CALIB. REF: 98G06017 98G06017 98G06017

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	15800	2680	19500	138*	2620	19900	156*	2	75-125	20
Antimony	0.200J	26.8	21.3	79	26.2	21.0	80	1	75-125	20
Arsenic	4.72	26.8	28.2	87	26.2	28.3	90	0	75-125	20
Barium	136	26.8	167	118	26.2	162	101	3	75-125	20
Beryllium	0.749	26.8	27.2	99	26.2	26.9	100	1	75-125	20
Boron	ND	26.8	27.0	101	26.2	26.2	100	3	75-125	20
Cadmium	0.246J	26.8	25.7	95	26.2	25.3	96	1	75-125	20
Calcium	2750	2680	5220	92	2620	5270	96	1	75-125	20
Chromium	21.3	26.8	44.3	86	26.2	44.8	90	1	75-125	20
Cobalt	5.72	26.8	29.2	87	26.2	30.8	96	5	75-125	20
Copper	9.69	26.8	31.6	82	26.2	32.1	86	2	75-125	20
Iron	22200	2680	24700	95	2620	26100	150*	5	75-125	20
Lead	6.30	26.8	31.9	96	26.2	32.9	102	3	75-125	20
Magnesium	4580	2680	6930	88	2620	7210	101	4	75-125	20
Manganese	255	26.8	299	165*	26.2	364	419*	20	75-125	20
Molybdenum	0.512J	26.8	25.6	94	26.2	25.4	95	1	75-125	20
Nickel	13.4	26.8	35.8	84	26.2	36.5	88	2	75-125	20
Potassium	1900	2680	4460	96	2620	4290	92	4	75-125	20
Selenium	ND	26.8	23.7	88	26.2	23.1	88	2	75-125	20
Silver	0.0616J	26.8	25.6	95	26.2	25.4	97	1	75-125	20
Sodium	139	2680	2470	87	2620	2430	88	2	75-125	20
Strontium	29.6	26.8	54.0	91	26.2	55.7	100	3	75-125	20
Thallium	0.260J	26.8	25.4	94	26.2	25.1	95	1	75-125	20
Tin	ND	26.8	29.2	109	26.2	29.3	112	0	75-125	20
Titanium	843	26.8	928	318*	26.2	876	128*	6	75-125	20
Vanadium	38.9	26.8	62.5	88	26.2	64.7	98	3	75-125	20
Zinc	51.9	53.6	99.9	90	52.3	101	94	1	75-125	20
Lithium	21.1	26.8	49.2	104	26.2	50.9	114	3	75-125	20
Phosphorus	155	268	369	80	262	360	79	2	75-125	20
Zirconium	ND	26.8	21.4	80	26.2	22.4	86	5	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G030  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 7.7  
DILTN FACTR: 0.990 0.990  
SAMPLE ID: SL-522-SA5C-SB-4.0-5.0  
CONTROL NO.: G030-03 G030-03A  
LAB FILE ID: 98G06025 98G06024  
DATIME EXTRACTD: 07/16/1211:30 07/16/1211:30 DATE COLLECTED: 07/09/12  
DATIME ANALYZD: 07/23/1213:52 07/23/1213:48 DATE RECEIVED: 07/09/12  
PREP. BATCH: IMG019S IMG019S  
CALIB. REF: 98G06017 98G06017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	15800	2680	18600	104	75-125
Antimony	0.200J	26.8	26.1	97	75-125
Arsenic	4.72	26.8	28.6	89	75-125
Barium	136	26.8	162	97	75-125
Beryllium	0.749	26.8	26.4	96	75-125
Boron	ND	26.8	27.5	103	75-125
Cadmium	0.246J	26.8	25.6	95	75-125
Calcium	2750	2680	5400	98	75-125
Chromium	21.3	26.8	44.1	85	75-125
Cobalt	5.72	26.8	28.7	86	75-125
Copper	9.69	26.8	31.8	83	75-125
Iron	22200	2680	24300	77	75-125
Lead	6.30	26.8	31.4	93	75-125
Magnesium	4580	2680	7230	99	75-125
Manganese	255	26.8	279	89	75-125
Molybdenum	0.512J	26.8	26.3	96	75-125
Nickel	13.4	26.8	35.7	83	75-125
Potassium	1900	2680	4610	101	75-125
Selenium	ND	26.8	24.0	90	75-125
Silver	0.0616J	26.8	25.2	94	75-125
Sodium	139	2680	2610	92	75-125
Strontium	29.6	26.8	54.1	91	75-125
Thallium	0.260J	26.8	25.4	94	75-125
Tin	ND	26.8	29.1	109	75-125
Titanium	843	26.8	871	108	75-125
Vanadium	38.9	26.8	62.0	86	75-125
Zinc	51.9	53.6	99.6	89	75-125
Lithium	21.1	26.8	46.9	96	75-125
Phosphorus	155	268	392	89	75-125
Zirconium	ND	26.8	27.4	102	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G030  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 7.7  
DILUTION FACTOR: 0.990 4.95  
SAMPLE ID: SL-522-SA5C-SB SL-522-SA5C-SB  
EMAX SAMP ID: G030-03 G030-03J  
LAB FILE ID: 98G06025 98G06026  
DATE EXTRACTED: 07/16/1211:30 07/16/1211:30 DATE COLLECTED: 07/09/12  
DATE ANALYZED: 07/23/1213:52 07/23/1213:57 DATE RECEIVED: 07/09/12  
PREP. BATCH: IMG019S IMG019S  
CALIB. REF: 98G06017 98G06017

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	15800	17000	7	10
Antimony	0.200J	ND	NA	10
Arsenic	4.72	4.98	6	10
Barium	136	130	4	10
Beryllium	0.749	0.749J	NA	10
Boron	ND	ND	0	10
Cadmium	0.246J	ND	NA	10
Calcium	2750	2980	8	10
Chromium	21.3	22.8	7	10
Cobalt	5.72	6.34	11*	10
Copper	9.69	11.3	16*	10
Iron	22200	24000	8	10
Lead	6.30	6.36	1	10
Magnesium	4580	4910	7	10
Manganese	255	280	10	10
Molybdenum	0.512J	0.494J	3	10
Nickel	13.4	14.7	10	10
Potassium	1900	2030	7	10
Selenium	ND	ND	0	10
Silver	0.0616J	ND	NA	10
Sodium	139	ND	NA	10
Strontium	29.6	28.9	3	10
Thallium	0.260J	ND	NA	10
Tin	ND	ND	0	10
Titanium	843	865	3	10
Vanadium	38.9	41.2	6	10
Zinc	51.9	54.1	4	10
Lithium	21.1	20.1	5	10
Phosphorus	155	169	9	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G030

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGG017SB	ND	1	NA	0.100	0.0500	07/17/1216:18	07/17/1213:15	M47G015030	M47G015020	HGG017S	NA	07/17/12
LCS1S	HGG017SL	0.862	1	NA	0.100	0.0500	07/17/1216:20	07/17/1213:15	M47G015031	M47G015020	HGG017S	NA	07/17/12
LCD1S	HGG017SC	0.860	1	NA	0.100	0.0500	07/17/1216:26	07/17/1213:15	M47G015034	M47G015032	HGG017S	NA	07/17/12
SL-522-SA5C-SB-4.0-5.0AS	G030-03A	0.948	1.00	7.7	0.108	0.0542	07/17/1216:29	07/17/1213:15	M47G015035	M47G015032	HGG017S	07/09/12	07/09/12
SL-522-SA5C-SB-4.0-5.0	G030-03	ND	1.00	7.7	0.108	0.0542	07/17/1216:32	07/17/1213:15	M47G015036	M47G015032	HGG017S	07/09/12	07/09/12
SL-522-SA5C-SB-4.0-5.0DL	G030-03J	ND	5.01	7.7	0.543	0.271	07/17/1216:34	07/17/1213:15	M47G015037	M47G015032	HGG017S	07/09/12	07/09/12
SL-522-SA5C-SB-4.0-5.0MS	G030-03M	0.940	0.997	7.7	0.108	0.0540	07/17/1216:36	07/17/1213:15	M47G015038	M47G015032	HGG017S	07/09/12	07/09/12
SL-522-SA5C-SB-4.0-5.0MSDG	G030-03S	0.941	1.00	7.7	0.108	0.0542	07/17/1216:38	07/17/1213:15	M47G015039	M47G015032	HGG017S	07/09/12	07/09/12
SL-530-SA5C-SB-4.0-5.0	G030-01	ND	0.995	10.9	0.112	0.0558	07/17/1216:41	07/17/1213:15	M47G015040	M47G015032	HGG017S	07/09/12	07/09/12
SL-530-SA5C-SB-9.0-10.0	G030-02	ND	0.993	4.7	0.104	0.0521	07/17/1216:43	07/17/1213:15	M47G015041	M47G015032	HGG017S	07/09/12	07/09/12
SL-522-SA5C-SB-9.0-10.0	G030-04	ND	0.995	7.2	0.107	0.0536	07/17/1216:45	07/17/1213:15	M47G015042	M47G015032	HGG017S	07/09/12	07/09/12
SL-822-SA5C-SB-4.0-5.0	G030-05	ND	0.990	9.4	0.109	0.0546	07/17/1216:47	07/17/1213:15	M47G015043	M47G015032	HGG017S	07/09/12	07/09/12
SL-531-SA5C-SB-4.0-5.0	G030-06	ND	0.987	9.6	0.109	0.0546	07/17/1216:54	07/17/1213:15	M47G015046	M47G015044	HGG017S	07/09/12	07/09/12
SL-531-SA5C-SB-9.0-10.0	G030-07	ND	0.990	9.5	0.109	0.0547	07/17/1216:56	07/17/1213:15	M47G015047	M47G015044	HGG017S	07/09/12	07/09/12
SL-623-SA5C-SB-4.0-5.0	G030-08	ND	1.00	9.1	0.110	0.0550	07/17/1216:58	07/17/1213:15	M47G015048	M47G015044	HGG017S	07/09/12	07/09/12
SL-623-SA5C-SB-9.0-10.0	G030-09	ND	0.997	4.8	0.105	0.0524	07/17/1217:00	07/17/1213:15	M47G015049	M47G015044	HGG017S	07/09/12	07/09/12
SL-523-SA5C-SB-4.0-5.0	G030-10	ND	0.998	5.7	0.106	0.0529	07/17/1217:02	07/17/1213:15	M47G015050	M47G015044	HGG017S	07/09/12	07/09/12
SL-523-SA5C-SB-9.0-10.0	G030-11	ND	0.990	9.0	0.109	0.0544	07/17/1217:04	07/17/1213:15	M47G015051	M47G015044	HGG017S	07/09/12	07/09/12
SL-533-SA5C-SB-4.0-5.0	G030-12	ND	0.998	9.0	0.110	0.0548	07/17/1217:06	07/17/1213:15	M47G015052	M47G015044	HGG017S	07/09/12	07/09/12
SL-533-SA5C-SB-9.0-10.0	G030-13	ND	0.997	9.6	0.110	0.0551	07/17/1217:08	07/17/1213:15	M47G015053	M47G015044	HGG017S	07/09/12	07/09/12
SL-754-SA5C-SB-0.0-0.5	G030-14	ND	1.00	5.0	0.105	0.0526	07/17/1217:11	07/17/1213:15	M47G015054	M47G015044	HGG017S	07/09/12	07/09/12
SL-754-SA5C-SB-4.0-5.0	G030-15	ND	0.992	10.1	0.110	0.0552	07/17/1217:14	07/17/1213:15	M47G015055	M47G015044	HGG017S	07/09/12	07/09/12
SL-754-SA5C-SB-6.5-7.5	G030-16	ND	0.988	5.2	0.104	0.0521	07/17/1217:20	07/17/1213:15	M47G015058	M47G015056	HGG017S	07/09/12	07/09/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G030  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGG017SB HGG017SL HGG017SC  
LAB FILE ID: M47G015030 M47G015031 M47G015034  
DATIME EXTRCTD: 07/17/1213:15 07/17/1213:15 07/17/1213:15 DATE COLLECTED: NA  
DATIME ANALYZD: 07/17/1216:18 07/17/1216:20 07/17/1216:26 DATE RECEIVED: 07/17/12  
PREP. BATCH: HGG017S HGG017S HGG017S  
CALIB. REF: M47G015020 M47G015020 M47G015032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.862	103	.833	.86	103	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G030  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 7.7  
DILTN FACTR: 1.00 0.997 1.00  
SAMPLE ID: SL-522-SA5C-SB-4.0-5.0  
CONTROL NO.: G030-03 G030-03M G030-03S  
LAB FILE ID: M47G015036 M47G015038 M47G015039  
DATIME EXTRCTD: 07/17/1213:15 07/17/1213:15 07/17/1213:15 DATE COLLECTED: 07/09/12  
DATIME ANALYZD: 07/17/1216:32 07/17/1216:36 07/17/1216:38 DATE RECEIVED: 07/09/12  
PREP. BATCH: HGG017S HGG017S HGG017S  
CALIB. REF: M47G015032 M47G015032 M47G015032

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.9	.94	104	.902	.941	104	0	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G030  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 7.7  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-522-SA5C-SB-4.0-5.0  
CONTROL NO.: G030-03 G030-03A  
LAB FILE ID: M47G015036 M47G015035  
DATIME EXTRCTD: 07/17/1213:15 07/17/1213:15 DATE COLLECTED: 07/09/12  
DATIME ANALYZD: 07/17/1216:32 07/17/1216:29 DATE RECEIVED: 07/09/12  
PREP. BATCH: HGG017S HGG017S  
CALIB. REF: M47G015032 M47G015032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.902	.948	105	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12G030  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 7.7  
 DILUTION FACTOR: 1.00 5.01  
 SAMPLE ID: SL-522-SA5C-SB-4.0- SL-522-SA5C-SB-4.0-  
 EMAX SAMP ID: G030-03 G030-03J  
 LAB FILE ID: M47G015036 M47G015037  
 DATE EXTRACTED: 07/17/1213:15 07/17/1213:15 DATE COLLECTED: 07/09/12  
 DATE ANALYZED: 07/17/1216:32 07/17/1216:34 DATE RECEIVED: 07/09/12  
 PREP. BATCH: HGG017S HGG017S  
 CALIB. REF: M47G015032 M47G015032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 6850  
PERCHLORATE

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G030

Matrix : SOIL  
Instrument ID : G0

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLG003SB	ND	1	NA	5.00	2.50	07/11/1213:28	07/11/1211:38	MG11010	MG11003	PLG003S	NA	07/11/12
LCS1S	PLG003SL	26.8	1	NA	5.00	2.50	07/11/1213:42	07/11/1211:38	MG11011	MG11003	PLG003S	NA	07/11/12
LCD1S	PLG003SC	26.5	1	NA	5.00	2.50	07/11/1213:56	07/11/1211:38	MG11012	MG11003	PLG003S	NA	07/11/12
SL-530-SA5C-SB-4.0-5.0	G030-01	ND	1	10.9	5.61	2.81	07/11/1215:23	07/11/1211:38	MG11018	MG11014	PLG003S	07/09/1209:05	07/09/12
SL-530-SA5C-SB-9.0-10.0	G030-02	ND	1	4.7	5.25	2.62	07/11/1215:37	07/11/1211:38	MG11019	MG11014	PLG003S	07/09/1209:20	07/09/12
SL-522-SA5C-SB-4.0-5.0	G030-03	ND	1	7.7	5.42	2.71	07/11/1215:51	07/11/1211:38	MG11020	MG11014	PLG003S	07/09/1210:05	07/09/12
SL-522-SA5C-SB-4.0-5.0MS	G030-03M	27.5	1	7.7	5.42	2.71	07/11/1216:05	07/11/1211:38	MG11021	MG11014	PLG003S	07/09/1210:05	07/09/12
SL-522-SA5C-SB-4.0-5.0MSD	G030-03S	26.7	1	7.7	5.42	2.71	07/11/1216:50	07/11/1211:38	MG11023	MG11014	PLG003S	07/09/1210:05	07/09/12
SL-522-SA5C-SB-9.0-10.0	G030-04	ND	1	7.2	5.39	2.69	07/11/1217:06	07/11/1211:38	MG11024	MG11014	PLG003S	07/09/1210:15	07/09/12
SL-822-SA5C-SB-4.0-5.0	G030-05	ND	1	9.4	5.52	2.76	07/11/1217:34	07/11/1211:38	MG11026	MG11025	PLG003S	07/09/1210:30	07/09/12
SL-531-SA5C-SB-4.0-5.0	G030-06	ND	1	9.6	5.53	2.77	07/11/1217:49	07/11/1211:38	MG11027	MG11025	PLG003S	07/09/1211:30	07/09/12
SL-531-SA5C-SB-9.0-10.0	G030-07	ND	1	9.5	5.52	2.76	07/11/1218:03	07/11/1211:38	MG11028	MG11025	PLG003S	07/09/1211:35	07/09/12
SL-623-SA5C-SB-4.0-5.0	G030-08	ND	1	9.1	5.50	2.75	07/11/1218:17	07/11/1211:38	MG11029	MG11025	PLG003S	07/09/1210:55	07/09/12
SL-623-SA5C-SB-9.0-10.0	G030-09	ND	1	4.8	5.25	2.63	07/11/1218:31	07/11/1211:38	MG11030	MG11025	PLG003S	07/09/1211:00	07/09/12
SL-523-SA5C-SB-4.0-5.0	G030-10	ND	1	5.7	5.30	2.65	07/11/1218:45	07/11/1211:38	MG11031	MG11025	PLG003S	07/09/1213:20	07/09/12
SL-523-SA5C-SB-9.0-10.0	G030-11	ND	1	9.0	5.49	2.75	07/11/1218:59	07/11/1211:38	MG11032	MG11025	PLG003S	07/09/1213:25	07/09/12
SL-533-SA5C-SB-4.0-5.0	G030-12	ND	1	9.0	5.49	2.75	07/11/1219:14	07/11/1211:38	MG11033	MG11025	PLG003S	07/09/1213:55	07/09/12
SL-533-SA5C-SB-9.0-10.0	G030-13	ND	1	9.6	5.53	2.77	07/11/1219:28	07/11/1211:38	MG11034	MG11025	PLG003S	07/09/1214:00	07/09/12
SL-754-SA5C-SB-0.0-0.5	G030-14	ND	1	5.0	5.26	2.63	07/11/1219:42	07/11/1211:38	MG11035	MG11025	PLG003S	07/09/1214:40	07/09/12
SL-754-SA5C-SB-4.0-5.0	G030-15	ND	1	10.1	5.56	2.78	07/11/1220:10	07/11/1211:38	MG11037	MG11036	PLG003S	07/09/1214:45	07/09/12
SL-754-SA5C-SB-6.5-7.5	G030-16	ND	1	5.2	5.27	2.64	07/11/1220:25	07/11/1211:38	MG11038	MG11036	PLG003S	07/09/1214:50	07/09/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G030  
METHOD: METHOD 6850

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MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLG003SB PLG003SL PLG003SC  
LAB FILE ID: MG11010 MG11011 MG11012  
DATE EXTRACTED: 07/11/1211:38 07/11/1211:38 07/11/1211:38 DATE COLLECTED: NA  
DATE ANALYZED: 07/11/1213:28 07/11/1213:42 07/11/1213:56 DATE RECEIVED: 07/11/12  
PREP. BATCH: PLG003S PLG003S PLG003S  
CALIB. REF: MG11003 MG11003 MG11003

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	26.8	107	25.0	26.5	106	1	85-115	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G030  
METHOD: METHOD 6850

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MATRIX: SOIL % MOISTURE: 7.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-522-SA5C-SB-4.0-5.0  
LAB SAMP ID: G030-03 G030-03M G030-03S  
LAB FILE ID: MG11020 MG11021 MG11023  
DATE EXTRACTED: 07/11/1211:38 07/11/1211:38 07/11/1211:38 DATE COLLECTED: 07/09/12 10:05  
DATE ANALYZED: 07/11/1215:51 07/11/1216:05 07/11/1216:50 DATE RECEIVED: 07/09/12  
PREP. BATCH: PLG003S PLG003S PLG003S  
CALIB. REF: MG11014 MG11014 MG11014

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	27.1	27.5	102	27.1	26.7	99	3	80-120	20

METHOD 9045D  
PH

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G030

Matrix : SOIL  
Instrument ID : 53

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-530-SA5C-SB-4.0-5.0	G030-01	6.69	1 NA	NA	NA	07/10/1218:41	07/10/1215:34	12PHG007S01	12PHG007	PHG007S	07/09/1209:05	07/09/12
SL-530-SA5C-SB-9.0-10.0	G030-02	7.65	1 NA	NA	NA	07/10/1218:42	07/10/1215:34	12PHG007S02	12PHG007	PHG007S	07/09/1209:20	07/09/12
SL-522-SA5C-SB-4.0-5.0	G030-03	7.20	1 NA	NA	NA	07/10/1218:44	07/10/1215:34	12PHG007S03	12PHG007	PHG007S	07/09/1210:05	07/09/12
SL-522-SA5C-SB-4.0-5.0DUP	G030-03D	7.17	1 NA	NA	NA	07/10/1218:45	07/10/1215:34	12PHG007S04	12PHG007	PHG007S	07/09/1210:05	07/09/12
SL-522-SA5C-SB-9.0-10.0	G030-04	8.02	1 NA	NA	NA	07/10/1218:47	07/10/1215:34	12PHG007S05	12PHG007	PHG007S	07/09/1210:15	07/09/12
SL-822-SA5C-SB-4.0-5.0	G030-05	7.37	1 NA	NA	NA	07/10/1218:48	07/10/1215:34	12PHG007S06	12PHG007	PHG007S	07/09/1210:30	07/09/12
SL-531-SA5C-SB-4.0-5.0	G030-06	8.07	1 NA	NA	NA	07/10/1218:49	07/10/1215:34	12PHG007S07	12PHG007	PHG007S	07/09/1211:30	07/09/12
SL-531-SA5C-SB-9.0-10.0	G030-07	8.30	1 NA	NA	NA	07/10/1218:50	07/10/1215:34	12PHG007S08	12PHG007	PHG007S	07/09/1211:35	07/09/12
SL-623-SA5C-SB-4.0-5.0	G030-08	8.20	1 NA	NA	NA	07/10/1218:51	07/10/1215:34	12PHG007S09	12PHG007	PHG007S	07/09/1210:55	07/09/12
SL-623-SA5C-SB-9.0-10.0	G030-09	9.02	1 NA	NA	NA	07/10/1218:54	07/10/1215:34	12PHG007S10	12PHG007	PHG007S	07/09/1211:00	07/09/12
SL-523-SA5C-SB-4.0-5.0	G030-10	7.99	1 NA	NA	NA	07/10/1218:55	07/10/1215:34	12PHG007S11	12PHG007	PHG007S	07/09/1213:20	07/09/12
SL-523-SA5C-SB-9.0-10.0	G030-11	8.22	1 NA	NA	NA	07/10/1218:56	07/10/1215:34	12PHG007S12	12PHG007	PHG007S	07/09/1213:25	07/09/12
SL-533-SA5C-SB-4.0-5.0	G030-12	8.17	1 NA	NA	NA	07/10/1218:57	07/10/1215:34	12PHG007S13	12PHG007	PHG007S	07/09/1213:55	07/09/12
SL-533-SA5C-SB-9.0-10.0	G030-13	8.24	1 NA	NA	NA	07/10/1218:58	07/10/1215:34	12PHG007S14	12PHG007	PHG007S	07/09/1214:00	07/09/12
SL-754-SA5C-SB-0.0-0.5	G030-14	7.28	1 NA	NA	NA	07/10/1218:59	07/10/1215:34	12PHG007S15	12PHG007	PHG007S	07/09/1214:40	07/09/12
SL-754-SA5C-SB-4.0-5.0	G030-15	6.95	1 NA	NA	NA	07/10/1219:01	07/10/1215:34	12PHG007S16	12PHG007	PHG007S	07/09/1214:45	07/09/12
SL-754-SA5C-SB-6.5-7.5	G030-16	7.58	1 NA	NA	NA	07/10/1219:02	07/10/1215:34	12PHG007S17	12PHG007	PHG007S	07/09/1214:50	07/09/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

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BATCH NO.: 12G030                      DATE RECEIVED: 07/09/12  
SAMPLE ID: SL-522-SA5C-SB-4.0-5.0DUP    DATE EXTRACTED: 07/10/12 15:34  
CONTROL NO.: G030-03D                  DATE ANALYZED: 07/10/12 18:45

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
-----				
pH	7.20	7.17	0.03	+/-0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 15:39
Sample ID    : SL-755-SA5C-SB-0.0-0.5          Date Analyzed: 07/18/12 21:05
Lab Samp ID  : G048-01                          Dilution Factor: 2
Lab File ID  : RG414                             Matrix          : SOIL
Ext Btch ID  : SVG026S                           % Moisture     : 6.1
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	21	5.3
ACENAPHTHYLENE	ND	21	5.3
ANTHRACENE	ND	21	5.3
BENZO (A) ANTHRACENE	8.4J	21	5.3
BENZO (A) PYRENE	ND	21	5.3
BENZO (B) FLUORANTHENE	ND	21	5.3
BENZO (K) FLUORANTHENE	ND	21	5.3
BENZO (G, H, I) PERYLENE	ND	21	5.3
CHRYSENE	ND	21	5.3
DIBENZO (A, H) ANTHRACENE	ND	21	5.3
FLUORANTHENE	ND	21	5.3
FLUORENE	ND	21	5.3
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.3
NAPHTHALENE	ND	21	5.3
PHENANTHRENE	ND	21	5.3
2-METHYLNAPHTHALENE	ND	21	5.3
1-METHYLNAPHTHALENE	ND	21	5.3
N-NITROSODIMETHYLAMINE	ND	21	5.3
PYRENE	ND	21	5.3
AZOBENZENE	ND	11	5.3
BENZO (E) PYRENE	9.0J	11	5.3
BIPHENYL	ND	11	5.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	159	355.0	44.7	40-130
2-FLUOROBIPHENYL	175	355.0	49.4	45-130
TERPHENYL-D14	295	355.0	83.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 15:39
Sample ID:   SL-755-SA5C-SB-4.0-5.0           Date Analyzed: 07/18/12 16:40
Lab Samp ID: G048-02                           Dilution Factor: 1
Lab File ID: RGH400                             Matrix          : SOIL
Ext Btch ID: SVG026S                           % Moisture      : 10.0
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	4.5J	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	4.0J	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	5.1J	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	4.5J	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	4.5J	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	175	370.3	47.3	40-130
2-FLUOROBIPHENYL	171	370.3	46.2	45-130
TERPHENYL-D14	247	370.3	66.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/19/12 15:16
Sample ID:   SL-755-SA5C-SB-5.5-6.5           Date Analyzed: 07/19/12 22:24
Lab Samp ID: G048-04R                           Dilution Factor: 1
Lab File ID: RGJ210                             Matrix          : SOIL
Ext Btch ID: SVG030S                            % Moisture     : 8.3
Calib. Ref.: RGJ007                             Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	182	363.5	50.1	40-130
2-FLUOROBIPHENYL	170	363.5	46.7	45-130
TERPHENYL-D14	302	363.5	83.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 15:39
Sample ID:   SL-640-SA5C-SB-5.0-6.0           Date Analyzed: 07/18/12 17:18
Lab Samp ID: G048-06                           Dilution Factor: 1
Lab File ID: RG402                             Matrix          : SOIL
Ext Btch ID: SVG026S                           % Moisture     : 11.0
Calib. Ref.: RPH072                           Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	195	374.5	52.0	40-130
2-FLUOROBIPHENYL	190	374.5	50.7	45-130
TERPHENYL-D14	375	374.5	100	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 15:39
Sample ID:   SL-640-SA5C-SB-10.0-11.0         Date Analyzed: 07/18/12 17:37
Lab Samp ID: G048-07                           Dilution Factor: 1
Lab File ID: RGH403                             Matrix          : SOIL
Ext Btch ID: SVG026S                           % Moisture     : 11.1
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	168	374.9	44.9	40-130
2-FLUOROBIPHENYL	164	374.9	43.8*	45-130
TERPHENYL-D14	246	374.9	65.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 15:39
Sample ID    : SL-640-SA5C-SB-15.0-16.0        Date Analyzed: 07/18/12 17:56
Lab Samp ID  : G048-08                          Dilution Factor: 1
Lab File ID  : RG404                             Matrix          : SOIL
Ext Btch ID  : SVG026S                           % Moisture     : 15.4
Calib. Ref.  : RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	3.0
ACENAPHTHYLENE	ND	12	3.0
ANTHRACENE	ND	12	3.0
BENZO (A) ANTHRACENE	ND	12	3.0
BENZO (A) PYRENE	ND	12	3.0
BENZO (B) FLUORANTHENE	ND	12	3.0
BENZO (K) FLUORANTHENE	ND	12	3.0
BENZO (G, H, I) PERYLENE	ND	12	3.0
CHRYSENE	ND	12	3.0
DIBENZO (A, H) ANTHRACENE	ND	12	3.0
FLUORANTHENE	ND	12	3.0
FLUORENE	ND	12	3.0
INDENO (1, 2, 3-CD) PYRENE	ND	12	3.0
NAPHTHALENE	ND	12	3.0
PHENANTHRENE	ND	12	3.0
2-METHYLNAPHTHALENE	ND	12	3.0
1-METHYLNAPHTHALENE	ND	12	3.0
N-NITROSODIMETHYLAMINE	ND	12	3.0
PYRENE	ND	12	3.0
AZOBENZENE	ND	5.9	3.0
BENZO (E) PYRENE	ND	5.9	3.0
BIPHENYL	ND	5.9	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	168	394.0	42.6	40-130
2-FLUOROBIPHENYL	139	394.0	35.3*	45-130
TERPHENYL-D14	289	394.0	73.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 15:39
Sample ID:   SL-640-SA5C-SB-19.0-20.0          Date Analyzed: 07/18/12 18:15
Lab Samp ID: G048-09                            Dilution Factor: 1
Lab File ID: RG405                              Matrix          : SOIL
Ext Btch ID: SVG026S                            % Moisture     : 17.0
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	3.0
ACENAPHTHYLENE	ND	12	3.0
ANTHRACENE	ND	12	3.0
BENZO (A) ANTHRACENE	ND	12	3.0
BENZO (A) PYRENE	ND	12	3.0
BENZO (B) FLUORANTHENE	ND	12	3.0
BENZO (K) FLUORANTHENE	ND	12	3.0
BENZO (G, H, I) PERYLENE	ND	12	3.0
CHRYSENE	ND	12	3.0
DIBENZO (A, H) ANTHRACENE	ND	12	3.0
FLUORANTHENE	ND	12	3.0
FLUORENE	ND	12	3.0
INDENO (1, 2, 3-CD) PYRENE	ND	12	3.0
NAPHTHALENE	ND	12	3.0
PHENANTHRENE	ND	12	3.0
2-METHYLNAPHTHALENE	ND	12	3.0
1-METHYLNAPHTHALENE	ND	12	3.0
N-NITROSODIMETHYLAMINE	ND	12	3.0
PYRENE	ND	12	3.0
AZOBENZENE	ND	6.0	3.0
BENZO (E) PYRENE	ND	6.0	3.0
BIPHENYL	ND	6.0	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	179	401.6	44.5	40-130
2-FLUOROBIPHENYL	175	401.6	43.6*	45-130
TERPHENYL-D14	364	401.6	90.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                       Date Received: 07/10/12
Batch No.    : 12G048                             Date Extracted: 07/17/12 15:39
Sample ID:   SL-641-SA5C-SB-4.0-5.0              Date Analyzed: 07/18/12 18:34
Lab Samp ID: G048-10                             Dilution Factor: 1
Lab File ID: RGH406                               Matrix          : SOIL
Ext Btch ID: SVG026S                             % Moisture     : 11.1
Calib. Ref.: RPH072                              Instrument ID   : T-OE7
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	214	374.9	57.0	40-130
2-FLUOROBIPHENYL	192	374.9	51.2	45-130
TERPHENYL-D14	337	374.9	89.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/19/12 15:16
Sample ID:   SL-641-SA5C-SB-9.0-10.0          Date Analyzed: 07/19/12 23:43
Lab Samp ID: G048-11R                          Dilution Factor: 1
Lab File ID: RGJ214                             Matrix          : SOIL
Ext Btch ID: SVG030S                            % Moisture     : 8.6
Calib. Ref.: RGJ007                             Instrument ID  : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	216	364.7	59.2	40-130
2-FLUOROBIPHENYL	198	364.7	54.4	45-130
TERPHENYL-D14	309	364.7	84.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 15:39
Sample ID    : SL-641-SA5C-SB-14.0-15.0        Date Analyzed: 07/18/12 19:11
Lab Samp ID  : G048-12                          Dilution Factor: 1
Lab File ID  : RGH408                            Matrix          : SOIL
Ext Btch ID  : SVG026S                          % Moisture     : 14.5
Calib. Ref.  : RPH072                            Instrument ID   : T-OE7
=====
  
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	248	389.8	63.7	40-130
2-FLUOROBIPHENYL	204	389.8	52.4	45-130
TERPHENYL-D14	353	389.8	90.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 15:39
Sample ID:   SL-641-SA5C-SB-18.5-19.5          Date Analyzed: 07/18/12 19:30
Lab Samp ID: G048-13                            Dilution Factor: 1
Lab File ID: RG409                              Matrix          : SOIL
Ext Btch ID: SVG026S                            % Moisture     : 14.8
Calib. Ref.: RPH072                             Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.9	2.9
BENZO (E) PYRENE	ND	5.9	2.9
BIPHENYL	ND	5.9	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	243	391.2	62.2	40-130
2-FLUOROBIPHENYL	239	391.2	61.0	45-130
TERPHENYL-D14	371	391.2	94.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 15:39
Sample ID:   SL-642-SA5C-SB-4.0-5.0           Date Analyzed: 07/18/12 19:49
Lab Samp ID: G048-15                           Dilution Factor: 1
Lab File ID: RG410                             Matrix          : SOIL
Ext Btch ID: SVG026S                           % Moisture     : 10.1
Calib. Ref.: RPH072                           Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	210	370.7	56.5	40-130
2-FLUOROBIPHENYL	192	370.7	51.8	45-130
TERPHENYL-D14	324	370.7	87.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/19/12 15:16
Sample ID    : SL-642-SA5C-SB-9.0-10.0         Date Analyzed: 07/20/12 00:03
Lab Samp ID  : G048-16R                         Dilution Factor: 1
Lab File ID  : RGJ215                           Matrix          : SOIL
Ext Btch ID  : SVG030S                          % Moisture     : 11.1
Calib. Ref.  : RGJ007                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	189	374.9	50.5	40-130
2-FLUOROBIPHENYL	184	374.9	49.0	45-130
TERPHENYL-D14	293	374.9	78.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 15:39
Sample ID    : SL-642-SA5C-SB-14.0-15.0        Date Analyzed: 07/18/12 20:27
Lab Samp ID  : G048-17                          Dilution Factor: 1
Lab File ID  : RG412                             Matrix          : SOIL
Ext Btch ID  : SVG026S                          % Moisture     : 14.1
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	161	388.0	41.4	40-130
2-FLUOROBIPHENYL	139	388.0	35.9*	45-130
TERPHENYL-D14	256	388.0	66.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/19/12 15:16
Sample ID    : SL-642-SA5C-SB-17.5-18.5        Date Analyzed: 07/20/12 00:22
Lab Samp ID  : G048-18R                         Dilution Factor: 1
Lab File ID  : RGJ216                           Matrix          : SOIL
Ext Btch ID  : SVG030S                          % Moisture     : 9.8
Calib. Ref.  : RGJ007                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	203	369.5	54.8	40-130
2-FLUOROBIPHENYL	183	369.5	49.4	45-130
TERPHENYL-D14	299	369.5	80.8	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/17/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 15:39
Sample ID    : MBLK1S                           Date Analyzed: 07/18/12 14:47
Lab Samp ID  : SVG026SB                         Dilution Factor: 1
Lab File ID  : RGH394                           Matrix          : SOIL
Ext Btch ID  : SVG026S                           % Moisture      : NA
Calib. Ref.  : RPH072                           Instrument ID   : T-OE7
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	252	333.3	75.7	40-130
2-FLUOROBIPHENYL	254	333.3	76.3	45-130
TERPHENYL-D14	356	333.3	107	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G048  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVG026SB SVG026SL SVG026SC  
LAB FILE ID: RGH394 RGH395 RGH396  
DATE EXTRACTED: 07/17/1215:39 07/17/1215:39 07/17/1215:39 DATE COLLECTED: NA  
DATE ANALYZED: 07/18/1214:47 07/18/1215:06 07/18/1215:24 DATE RECEIVED: 07/17/12  
PREP. BATCH: SVG026S SVG026S SVG026S  
CALIB. REF: RFH072 RFH072 RFH072

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	284	85	333	276	83	3	10-130	50
Acenaphthylene	ND	333	298	89	333	290	87	3	20-130	50
Anthracene	ND	333	270	81	333	267	80	1	20-130	50
Benzo (a) anthracene	ND	333	307	92	333	296	89	4	30-130	50
Benzo (a) pyrene	ND	333	318	95	333	306	92	4	30-130	50
Benzo (b) fluoranthene	ND	333	340	102	333	324	97	5	40-130	50
Benzo (k) fluoranthene	ND	333	308	92	333	297	89	3	30-140	50
Benzo (g, h, i) perylene	ND	333	324	97	333	311	93	4	30-140	50
Chrysene	ND	333	294	88	333	286	86	3	30-140	50
Dibenzo (a, h) anthracene	ND	333	343	103	333	328	99	4	40-140	50
Fluoranthene	ND	333	306	92	333	298	89	3	30-130	50
Fluorene	ND	333	292	88	333	288	86	2	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	342	103	333	328	98	4	20-160	50
Naphthalene	ND	333	270	81	333	259	78	4	10-130	50
Phenanthrene	ND	333	275	82	333	271	81	1	20-130	50
2-Methylnaphthalene	ND	333	282	85	333	272	82	4	30-150	50
1-Methylnaphthalene	ND	333	285	86	333	275	82	4	30-150	50
N-Nitrosodimethylamine	ND	333	232	70	333	221	66	5	30-150	50
Pyrene	ND	333	300	90	333	292	87	3	20-150	50
Azobenzene	ND	333	275	83	333	272	81	1	30-150	50
Benzo (e) pyrene	ND	333	326	98	333	310	93	5	30-150	50
Biphenyl	ND	333	278	83	333	267	80	4	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	234	70	333	248	75	40-130
2-Fluorobiphenyl	333	234	70	333	249	75	45-130
Terphenyl-d14	333	318	95	333	332	100	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/19/12
Batch No.    : 12G048                           Date Extracted: 07/19/12 15:16
Sample ID    : MBLK2S                           Date Analyzed: 07/19/12 22:04
Lab Samp ID  : SVG030SB                         Dilution Factor: 1
Lab File ID  : RGJ209                           Matrix          : SOIL
Ext Btch ID  : SVG030S                          % Moisture     : NA
Calib. Ref.  : RGJ007                           Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	225	333.3	67.4	40-130
2-FLUOROBIPHENYL	203	333.3	60.8	45-130
TERPHENYL-D14	291	333.3	87.3	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G048  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK2S  
LAB SAMP ID: SVG030SB SVG030SL SVG030SC  
LAB FILE ID: RGJ209 RGJ207 RGJ208  
DATE EXTRACTED: 07/19/1215:16 07/19/1215:16 07/19/1215:16 DATE COLLECTED: NA  
DATE ANALYZED: 07/19/1222:04 07/19/1221:25 07/19/1221:45 DATE RECEIVED: 07/19/12  
PREP. BATCH: SVG030S SVG030S SVG030S  
CALIB. REF: RGJ007 RGJ007 RGJ007

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	208	62	333	184	55	12	10-130	50
Acenaphthylene	ND	333	227	68	333	201	60	12	20-130	50
Anthracene	ND	333	231	69	333	210	63	10	20-130	50
Benzo (a) anthracene	ND	333	284	85	333	265	80	7	30-130	50
Benzo (a) pyrene	ND	333	309	93	333	285	86	8	30-130	50
Benzo (b) fluoranthene	ND	333	330	99	333	307	92	7	40-130	50
Benzo (k) fluoranthene	ND	333	277	83	333	258	77	7	30-140	50
Benzo (g, h, i) perylene	ND	333	262	79	333	239	72	9	30-140	50
Chrysene	ND	333	276	83	333	260	78	6	30-140	50
Dibenzo (a, h) anthracene	ND	333	275	82	333	251	75	9	40-140	50
Fluoranthene	ND	333	270	81	333	249	75	8	30-130	50
Fluorene	ND	333	220	66	333	200	60	9	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	280	84	333	257	77	9	20-160	50
Naphthalene	ND	333	213	64	333	191	57	11	10-130	50
Phenanthrene	ND	333	238	71	333	216	65	10	20-130	50
2-Methylnaphthalene	ND	333	224	67	333	198	60	12	30-150	50
1-Methylnaphthalene	ND	333	220	66	333	195	59	12	30-150	50
N-Nitrosodimethylamine	ND	333	208	63	333	187	56	11	30-150	50
Pyrene	ND	333	259	78	333	242	73	7	20-150	50
Azobenzene	ND	333	274	82	333	238	71	14	30-150	50
Benzo (e) pyrene	ND	333	306	92	333	280	84	9	30-150	50
Biphenyl	ND	333	216	65	333	188	56	14	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	205	61	333	196	59	40-130
2-Fluorobiphenyl	333	179	54	333	171	51	45-130
Terphenyl-d14	333	266	80	333	271	81	45-130

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client      : CDM                               Date Collected: 07/10/12
Project     : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.   : 12G048                           Date Extracted: 07/12/12 14:58
Sample ID:  SL-755-SA5C-SB-4.5                 Date Analyzed: 07/12/12 14:58
Lab Samp ID: G048-03                           Dilution Factor: 1.12
Lab File ID: EG11039A                          Matrix          : SOIL
Ext Btch ID: GMG006S                           % Moisture     : 13.3
Calib. Ref.: EG11036A                          Instrument ID  : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.3	0.65
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.18	2.584	84.3 70-140

RL : Reporting Limit

METHANOL EXTRACTION DATE: 07/11/12 12:19

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/12/12 15:40
Sample ID:   SL-755-SA5C-SB-6.0                 Date Analyzed: 07/12/12 15:40
Lab Samp ID: G048-05                             Dilution Factor: 1.22
Lab File ID: EG11040A                            Matrix          : SOIL
Ext Btch ID: GMG006S                             % Moisture     : 8.2
Calib. Ref.: EG11036A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.3	0.66
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	2.27	2.658	85.5 70-140

RL : Reporting Limit

METHANOL EXTRACTION DATE: 07/11/12 12:19

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 07/12/12
Batch No.   : 12G048                           Date Extracted: 07/12/12 00:38
Sample ID   : MBLK1S                           Date Analyzed: 07/12/12 00:38
Lab Samp ID: GMG006SB                         Dilution Factor: 1
Lab File ID: EG11019A                        Matrix          : SOIL
Ext Btch ID: GMG006S                         % Moisture     : NA
Calib. Ref.: EG11015A                       Instrument ID   : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.79	2.000	89.7 60-130

RL : Reporting Limit

METHANOL EXTRACTION DATE: 07/11/12 12:19

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G048  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMG006SB GMG006SL GMG006SC  
LAB FILE ID: EG11019A EG11016A EG11017A  
DATE EXTRACTED: 07/12/1200:38 07/11/1222:29 07/11/1223:12 DATE COLLECTED: NA  
DATE ANALYZED: 07/12/1200:38 07/11/1222:29 07/11/1223:12 DATE RECEIVED: 07/11/12  
PREP. BATCH: GMG006S GMG006S GMG006S  
CALIB. REF: EG11015A EG11015A EG11015A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	22.1	88	25.0	22.0	88	0	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.25	113	2.00	2.24	112	60-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 07/10/12
Project     : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.   : 12G048                           Date Extracted: 07/12/12 23:34
Sample ID   : TB-071012                        Date Analyzed: 07/12/12 23:34
Lab Samp ID: G048-14                           Dilution Factor: 1
Lab File ID: EG11051A                          Matrix          : WATER
Ext Btch ID: VG39G08                           % Moisture     : NA
Calib. Ref.: EG11048A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	15J	50	10
SURROGATE PARAMETERS			
4-BROMOFLUOROBENZENE	36.4	40.00	60-140

RL : Reporting Limit

Discrete peak(s) were reported

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 07/12/12
Batch No.   : 12G048                           Date Extracted: 07/12/12 17:06
Sample ID   : MBLK1W                           Date Analyzed: 07/12/12 17:06
Lab Samp ID: VG39G08B                         Dilution Factor: 1
Lab File ID: EG11042A                         Matrix          : WATER
Ext Btch ID: VG39G08                          % Moisture     : NA
Calib. Ref.: EG11036A                         Instrument ID   : GCT039
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	34.4	40.00	85.9 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G048  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39G08B VG39G08L VG39G08C  
LAB FILE ID: EG11042A EG11043A EG11044A  
DATE EXTRACTED: 07/12/1217:06 07/12/1217:49 07/12/1218:32 DATE COLLECTED: NA  
DATE ANALYZED: 07/12/1217:06 07/12/1217:49 07/12/1218:32 DATE RECEIVED: 07/12/12  
PREP. BATCH: VG39G08 VG39G08 VG39G08  
CALIB. REF: EG11036A EG11036A EG11036A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	415	83	500	446	89	7	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	44.6	112	40.0	45.0	113	60-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/12/12 10:37
Sample ID:   SL-755-SA5C-SB-0.0-0.5           Date Analyzed: 07/12/12 20:17
Lab Samp ID: G048-01                           Dilution Factor: 1
Lab File ID: LG11021A                          Matrix          : SOIL
Ext Btch ID: DSG018S                           % Moisture     : 6.1
Calib. Ref.: LG11015A                          Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.7
EFH(C12-C14)	ND	5.3	2.7
EFH(C15-C20)	ND	5.3	2.7
EFH(C21-C30)	33	5.3	2.7
EFH(C30-C40)	71	11	5.3
TOTAL EFH(C8-C40)	104	5.3	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.3	106.5	68.8	50-150
HEXACOSANE	26.2	26.62	98.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/12/12 10:37
Sample ID    : SL-755-SA5C-SB-4.0-5.0          Date Analyzed: 07/12/12 19:43
Lab Samp ID  : G048-02                          Dilution Factor: 1
Lab File ID  : LG11019A                         Matrix          : SOIL
Ext Btch ID  : DSG018S                          % Moisture     : 10.0
Calib. Ref.  : LG11015A                         Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	4.9J	5.6	2.8
EFH(C30-C40)	12	11	5.6
TOTAL EFH(C8-C40)	17	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	77.2	111.1	69.5	50-150
HEXACOSANE	27.1	27.78	97.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/12/12 10:37
Sample ID:   SL-755-SA5C-SB-5.5-6.5           Date Analyzed: 07/12/12 19:26
Lab Samp ID: G048-04                           Dilution Factor: 1
Lab File ID: LG11018A                          Matrix          : SOIL
Ext Btch ID: DSG018S                            % Moisture     : 8.3
Calib. Ref.: LG11015A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.1	109.1	66.1	50-150
HEXACOSANE	25.1	27.26	92.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/12/12
Batch No.    : 12G048                           Date Extracted: 07/12/12 10:37
Sample ID    : MBLK1S                           Date Analyzed: 07/12/12 15:47
Lab Samp ID  : DSG018SB                         Dilution Factor: 1
Lab File ID  : LG11005A                         Matrix          : SOIL
Ext Btch ID  : DSG018S                          % Moisture     : NA
Calib. Ref.  : LG11003A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.2	100.0	71.2	50-150
HEXACOSANE	22.3	25.00	89.2	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G048  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSG018SB DSG018SL DSG018SC  
LAB FILE ID: LG11005A LG11006A LG11007A  
DATE EXTRACTED: 07/12/1210:37 07/12/1210:37 07/12/1210:37 DATE COLLECTED: NA  
DATE ANALYZED: 07/12/1215:47 07/12/1216:04 07/12/1216:20 DATE RECEIVED: 07/12/12  
PREP. BATCH: DSG018S DSG018S DSG018S  
CALIB. REF: LG11003A LG11003A LG11003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	503	101	500	508	102	1	50-140	50

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SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	80.8	81	100	76.6	77	50-150
Hexacosane	25.0	24.1	96	25.0	22.6	90	50-150

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 14:54
Sample ID    : SL-755-SA5C-SB-0.0-0.5          Date Analyzed: 07/21/12 10:21
Lab Samp ID  : G048-01                          Dilution Factor: 1
Lab File ID  : SG20037A                         Matrix          : SOIL
Ext Btch ID  : CPG031S                          % Moisture     : 6.1
Calib. Ref.  : SG20031A                         Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(28)   23	21	11   11	
AROCLOR 1260	(15J)   11J	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	43	21   21	
AROCLOR 5442	(ND)   ND	43	21   21	
AROCLOR 5460	(ND)   ND	43	21   21	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIIPHENYL	(15.03)   14.83	14.20	(106)   104	45-120
TETRACHLORO-M-XYLENE	14.37   (16.44)	14.20	101   (116)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 07/10/12
Project     : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.   : 12G048                           Date Extracted: 07/17/12 14:54
Sample ID:  SL-755-SA5C-SB-4.0-5.0           Date Analyzed: 07/21/12 10:55
Lab Samp ID: G048-02                           Dilution Factor: 1
Lab File ID: SG20038A                          Matrix          : SOIL
Ext Btch ID: CPG031S                           % Moisture     : 10.0
Calib. Ref.: SG20031A                          Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.40)   16.36	14.81	(111)   110	45-120
TETRACHLORO-M-XYLENE	13.77   (14.90)	14.81	93.0   (101)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 14:54
Sample ID:   SL-755-SA5C-SB-5.5-6.5           Date Analyzed: 07/21/12 11:29
Lab Samp ID: G048-04                           Dilution Factor: 1
Lab File ID: SG20039A                          Matrix          : SOIL
Ext Btch ID: CPG031S                            % Moisture     : 8.3
Calib. Ref.: SG20031A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	17.27   (17.35)	14.54	119   (119)	45-120
TETRACHLORO-M-XYLENE	12.05   (12.93)	14.54	82.9   (88.9)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 14:54
Sample ID:   SL-640-SA5C-SB-5.0-6.0           Date Analyzed: 07/21/12 12:03
Lab Samp ID: G048-06                           Dilution Factor: 1
Lab File ID: SG20040A                          Matrix          : SOIL
Ext Btch ID: CPG031S                           % Moisture     : 11.0
Calib. Ref.: SG20031A                          Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	18.24   (17.87)	14.98	122*   (119)	45-120
TETRACHLORO-M-XYLENE	13.91   (14.89)	14.98	92.9   (99.4)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 14:54
Sample ID:   SL-640-SA5C-SB-10.0-11.0          Date Analyzed: 07/21/12 12:37
Lab Samp ID: G048-07                           Dilution Factor: 1
Lab File ID: SG20041A                          Matrix          : SOIL
Ext Btch ID: CPG031S                           % Moisture     : 11.1
Calib. Ref.: SG20031A                          Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(17.26)   17.02	14.99	(115)   113	45-120
TETRACHLORO-M-XYLENE	14.17   (15.17)	14.99	94.5   (101)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 14:54
Sample ID    : SL-640-SA5C-SB-15.0-16.0        Date Analyzed: 07/21/12 13:12
Lab Samp ID  : G048-08                           Dilution Factor: 1
Lab File ID  : SG20042A                          Matrix          : SOIL
Ext Btch ID  : CPG031S                           % Moisture     : 15.4
Calib. Ref.  : SG20031A                          Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	47	24   24	
AROCLOR 5442	(ND)   ND	47	24   24	
AROCLOR 5460	(ND)   ND	47	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(18.47)   18.31	15.76	(117)   116	45-120
TETRACHLORO-M-XYLENE	13.46   (14.47)	15.76	85.4   (91.9)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 07/10/12
Project     : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.   : 12G048                           Date Extracted: 07/17/12 14:54
Sample ID   : SL-640-SA5C-SB-19.0-20.0        Date Analyzed: 07/21/12 13:46
Lab Samp ID: G048-09                           Dilution Factor: 1
Lab File ID: SG20043A                          Matrix          : SOIL
Ext Btch ID: CPG031S                           % Moisture     : 17.0
Calib. Ref.: SG20031A                          Instrument ID  : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	48	24   24	
AROCLOR 5442	(ND)   ND	48	24   24	
AROCLOR 5460	(ND)   ND	48	24   24	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIIPHENYL	19.38   (19.48)	16.06	121*   (121*)	45-120
TETRACHLORO-M-XYLENE	14.11   (15.10)	16.06	87.8   (94.0)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 07/10/12
Project    : SSFL PHASE 3                       Date Received: 07/10/12
Batch No.  : 12G048                             Date Extracted: 07/17/12 14:54
Sample ID: SL-641-SA5C-SB-4.0-5.0             Date Analyzed: 07/21/12 14:20
Lab Samp ID: G048-10                           Dilution Factor: 1
Lab File ID: SG20044A                           Matrix          : SOIL
Ext Btch ID: CPG031S                            % Moisture     : 11.1
Calib. Ref.: SG20031A                           Instrument ID  : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	18.98   (18.23)	14.99	126*   (122*)	45-120
TETRACHLORO-M-XYLENE	13.12   (13.98)	14.99	87.5   (93.2)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 14:54
Sample ID:   SL-641-SA5C-SB-9.0-10.0           Date Analyzed: 07/21/12 14:54
Lab Samp ID: G048-11                            Dilution Factor: 1
Lab File ID: SG20045A                           Matrix          : SOIL
Ext Btch ID: CPG031S                            % Moisture     : 8.6
Calib. Ref.: SG20031A                           Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	18.88   (18.43)	14.58	129*   (126*)	45-120
TETRACHLORO-M-XYLENE	13.59   (14.52)	14.58	93.2   (99.6)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 07/10/12
Project     : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.   : 12G048                           Date Extracted: 07/17/12 14:54
Sample ID   : SL-641-SA5C-SB-14.0-15.0        Date Analyzed: 07/21/12 15:28
Lab Samp ID : G048-12                           Dilution Factor: 1
Lab File ID : SG20046A                          Matrix          : SOIL
Ext Btch ID : CPG031S                           % Moisture     : 14.5
Calib. Ref. : SG20031A                          Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(18.60)   18.16	15.59	(119)   116	45-120
TETRACHLORO-M-XYLENE	13.81   (14.71)	15.59	88.6   (94.3)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 14:54
Sample ID:   SL-641-SA5C-SB-18.5-19.5          Date Analyzed: 07/21/12 18:19
Lab Samp ID: G048-13                             Dilution Factor: 1
Lab File ID: SG20051A                           Matrix          : SOIL
Ext Btch ID: CPG031S                             % Moisture     : 14.8
Calib. Ref.: SG20048A                           Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	20.13   (19.69)	15.65	129*   (126*)	45-120
TETRACHLORO-M-XYLENE	13.53   (14.61)	15.65	86.5   (93.4)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                       Date Received: 07/10/12
Batch No.    : 12G048                             Date Extracted: 07/17/12 14:54
Sample ID    : SL-642-SA5C-SB-4.0-5.0           Date Analyzed: 07/21/12 18:54
Lab Samp ID  : G048-15                           Dilution Factor: 1
Lab File ID  : SG20052A                          Matrix          : SOIL
Ext Btch ID  : CPG031S                           % Moisture     : 10.1
Calib. Ref.  : SG20048A                          Instrument ID   : GCT008
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```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	18.20   (17.84)	14.83	123*   (120)	45-120
TETRACHLORO-M-XYLENE	13.06   (14.02)	14.83	88.0   (94.6)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                       Date Received: 07/10/12
Batch No.    : 12G048                             Date Extracted: 07/17/12 14:54
Sample ID    : SL-642-SA5C-SB-9.0-10.0           Date Analyzed: 07/21/12 19:28
Lab Samp ID  : G048-16                             Dilution Factor: 1
Lab File ID  : SG20053A                           Matrix          : SOIL
Ext Btch ID  : CPG031S                             % Moisture     : 11.1
Calib. Ref.  : SG20048A                           Instrument ID   : GCT008
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	18.54   (18.21)	14.99	124*   (121*)	45-120
TETRACHLORO-M-XYLENE	13.54   (14.52)	14.99	90.3   (96.8)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 14:54
Sample ID:   SL-642-SA5C-SB-14.0-15.0          Date Analyzed: 07/21/12 20:02
Lab Samp ID: G048-17                             Dilution Factor: 1
Lab File ID: SG20054A                           Matrix          : SOIL
Ext Btch ID: CPG031S                             % Moisture     : 14.1
Calib. Ref.: SG20048A                           Instrument ID  : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(18.23)   17.87	15.52	(117)   115	45-120
TETRACHLORO-M-XYLENE	12.32   (13.19)	15.52	79.4   (85.0)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
Batch No.    : 12G048                           Date Extracted: 07/17/12 14:54
Sample ID    : SL-642-SA5C-SB-17.5-18.5        Date Analyzed: 07/21/12 20:36
Lab Samp ID  : G048-18                           Dilution Factor: 1
Lab File ID  : SG20055A                          Matrix          : SOIL
Ext Btch ID  : CPG031S                            % Moisture     : 9.8
Calib. Ref.  : SG20048A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	19.07   (18.55)	14.78	129*   (126*)	45-120
TETRACHLORO-M-XYLENE	12.23   (13.13)	14.78	82.8   (88.8)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 07/17/12
Batch No.    : 12G048                             Date Extracted: 07/17/12 14:54
Sample ID    : MBLK1S                             Date Analyzed: 07/21/12 08:38
Lab Samp ID  : 60G031SB                           Dilution Factor: 1
Lab File ID  : SG20034A                           Matrix          : SOIL
Ext Btch ID  : CPG031S                            % Moisture      : NA
Calib. Ref.  : SG20031A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	15.76   (16.05)	13.33	118   (120)	45-120
TETRACHLORO-M-XYLENE	12.01   (12.98)	13.33	90.1   (97.4)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G048  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60G031SB 60G031SL 60G031SC  
LAB FILE ID: SG20034A SG20035A SG20036A  
DATE EXTRACTED: 07/17/1214:54 07/17/1214:54 07/17/1214:54 DATE COLLECTED: NA  
DATE ANALYZED: 07/21/1208:38 07/21/1209:12 07/21/1209:46 DATE RECEIVED: 07/17/12  
PREP. BATCH: CPG031S CPG031S CPG031S  
CALIB. REF: SG20031A SG20031A SG20031A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(177)   166	(106)   100	167	(170)   160	(102)   96	(4)   4	50-130	50
Aroclor 1260	(ND)   ND	167	(202)   195	(121)   117	167	(203)   198	(122)   119	(0)   2	60-150	50
Aroclor 5460	(ND)   ND	83.3	(96.7)   94.8	(116)   114	83.3	(104)   102	(125)   122	(7)   7	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	15.93   (15.94)	119   (120)	13.33	15.73   (15.81)	118   (119)	45-120
Tetrachloro-m-xylene	13.33	13.12   (13.62)	98.4   (102)	13.33	12.19   (12.66)	91.4   (95.0)	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G048  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 9.8  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-642-SA5C-SB-17.5-18.5  
LAB SAMP ID: G048-18 G048-18M G048-18S  
LAB FILE ID: SG20055A SG20056A SG20057A  
DATE EXTRACTED: 07/17/1214:54 07/17/1214:54 07/17/1214:54 DATE COLLECTED: 07/10/12  
DATE ANALYZED: 07/21/1220:36 07/21/1221:10 07/21/1221:45 DATE RECEIVED: 07/10/12  
PREP. BATCH: CPG031S CPG031S CPG031S  
CALIB. REF: SG20048A SG20048A SG20048A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	185	(153)   144	(83)   78	185	(181)   172	(98)   93	(17)   18	20-160	50
Aroclor 1260	(ND)   ND	185	(189)   185	(102)   100	185	(226)   220	(122)   119	(18)   17	20-160	50
Aroclor 5460	(ND)   ND	92.4	(93.2)   93.2	(101)   101	92.4	(110)   110	(119)   119	(17)   17	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	14.78	(16.48)   16.04	(112)   109	14.78	18.46   (18.12)	125*   (123*)	45-120
Tetrachloro-m-xylene	14.78	11.04   (11.44)	74.7   (77.4)	14.78	12.42   (12.85)	84.1   (86.9)	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/10/12
Project     : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.    : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID:  SL-755-SA5C-SB-0.0-0.5           Date Analyzed: 07/23/12 16:36 # 07/23/12 18:07
Lab Samp ID: G048-01 #G048-01I              Dilution Factor: 0.995 # 4.98
Lab File ID: 98G06061 #98G06081            Matrix       : SOIL
Ext Btch ID: IMG020S                        % Moisture   : 6.1
Calib. Ref.: 98G06051 #98G06075            Instrument ID : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13500	106	12.7
Antimony	1.25	0.530	0.106
Arsenic	4.97	0.530	0.212
Barium	138	0.530	0.212
Beryllium	0.572	0.530	0.0530
Boron	2.74J	5.30	2.65
Cadmium	1.36	0.530	0.0530
Calcium	3080	21.2	10.6
Chromium	24.3	0.530	0.212
Cobalt	7.65	0.530	0.0530
Copper	64.1	0.530	0.212
Iron	39300	106	10.6
Lead	41.7	0.530	0.106
Magnesium	4000	10.6	5.30
Manganese	380	0.530	0.265
Molybdenum	1.65	0.530	0.0530
Nickel	17.8	0.530	0.212
Potassium	2560	106	31.8
Selenium	ND	0.530	0.212
Silver	0.128J	0.530	0.0530
Sodium	108	106	53.0
Strontium	28.7	0.530	0.265
Thallium	0.255J	0.424	0.0530
Tin	6.37J	10.6	5.30
Titanium	768	1.06	0.530
Vanadium	35.8	0.530	0.0530
# Zinc	3160	26.5	7.96
Lithium	15.6	2.12	1.06
Phosphorus	281	12.7	6.36
Zirconium	ND	5.30	2.65

# Members of the Associated File

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.     : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID   : SL-755-SA5C-SB-4.0-5.0          Date Analyzed: 07/23/12 16:54
Lab Samp ID : G048-02                           Dilution Factor: 0.976
Lab File ID : 98G06065                         Matrix          : SOIL
Ext Btch ID : IMG020S                          % Moisture     : 10.0
Calib. Ref. : 98G06063                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17600	108	13.0
Antimony	0.318J	0.542	0.108
Arsenic	7.29	0.542	0.217
Barium	126	0.542	0.217
Beryllium	0.743	0.542	0.0542
Boron	ND	5.42	2.71
Cadmium	0.430J	0.542	0.0542
Calcium	3900	21.7	10.8
Chromium	26.2	0.542	0.217
Cobalt	7.65	0.542	0.0542
Copper	28.9	0.542	0.217
Iron	29500	108	10.8
Lead	12.2	0.542	0.108
Magnesium	6090	10.8	5.42
Manganese	372	0.542	0.271
Molybdenum	0.611	0.542	0.0542
Nickel	18.0	0.542	0.217
Potassium	1660	108	32.5
Selenium	ND	0.542	0.217
Silver	0.121J	0.542	0.0542
Sodium	123	108	54.2
Strontium	29.1	0.542	0.271
Thallium	0.258J	0.434	0.0542
Tin	6.38J	10.8	5.42
Titanium	1040	1.08	0.542
Vanadium	44.7	0.542	0.0542
Zinc	532	5.42	1.63
Lithium	37.0	2.17	1.08
Phosphorus	250	13.0	6.51
Zirconium	2.73J	5.42	2.71

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/10/12
Project    : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.    : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID: SL-755-SA5C-SB-5.5-6.5           Date Analyzed: 07/23/12 16:59
Lab Samp ID: G048-04                         Dilution Factor: 0.966
Lab File ID: 98G06066                       Matrix          : SOIL
Ext Btch ID: IMG020S                        % Moisture     : 8.3
Calib. Ref.: 98G06063                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20700	105	12.6
Antimony	0.608	0.527	0.105
Arsenic	21.0	0.527	0.211
Barium	167	0.527	0.211
Beryllium	1.03	0.527	0.0527
Boron	ND	5.27	2.63
Cadmium	0.502J	0.527	0.0527
Calcium	6330	21.1	10.5
Chromium	38.1	0.527	0.211
Cobalt	13.0	0.527	0.0527
Copper	28.9	0.527	0.211
Iron	40700	105	10.5
Lead	16.6	0.527	0.105
Magnesium	9950	10.5	5.27
Manganese	576	0.527	0.263
Molybdenum	0.902	0.527	0.0527
Nickel	29.8	0.527	0.211
Potassium	3030	105	31.6
Selenium	ND	0.527	0.211
Silver	0.177J	0.527	0.0527
Sodium	265	105	52.7
Strontium	35.7	0.527	0.263
Thallium	0.442	0.421	0.0527
Tin	ND	10.5	5.27
Titanium	1140	1.05	0.527
Vanadium	59.6	0.527	0.0527
Zinc	116	5.27	1.58
Lithium	60.4	2.11	1.05
Phosphorus	770	12.6	6.32
Zirconium	2.98J	5.27	2.63

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/10/12
Project    : SSFL PHASE 3                       Date Received: 07/10/12
SDG NO.    : 12G048                             Date Extracted: 07/17/12 14:00
Sample ID: SL-640-SA5C-SB-5.0-6.0             Date Analyzed: 07/23/12 17:03
Lab Samp ID: G048-06                           Dilution Factor: 0.995
Lab File ID: 98G06067                          Matrix          : SOIL
Ext Btch ID: IMG020S                            % Moisture     : 11.0
Calib. Ref.: 98G06063                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	21200	112	13.4
Antimony	0.194J	0.559	0.112
Arsenic	5.55	0.559	0.224
Barium	133	0.559	0.224
Beryllium	0.835	0.559	0.0559
Boron	ND	5.59	2.79
Cadmium	0.172J	0.559	0.0559
Calcium	17900	22.4	11.2
Chromium	24.6	0.559	0.224
Cobalt	6.88	0.559	0.0559
Copper	9.51	0.559	0.224
Iron	25300	112	11.2
Lead	7.93	0.559	0.112
Magnesium	5350	11.2	5.59
Manganese	226	0.559	0.279
Molybdenum	0.328J	0.559	0.0559
Nickel	12.6	0.559	0.224
Potassium	2500	112	33.5
Selenium	ND	0.559	0.224
Silver	ND	0.559	0.0559
Sodium	338	112	55.9
Strontium	62.2	0.559	0.279
Thallium	0.298J	0.447	0.0559
Tin	ND	11.2	5.59
Titanium	908	1.12	0.559
Vanadium	44.8	0.559	0.0559
Zinc	50.9	5.59	1.68
Lithium	20.5	2.24	1.12
Phosphorus	132	13.4	6.71
Zirconium	ND	5.59	2.79

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/10/12
Project     : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.    : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID:  SL-640-SA5C-SB-10.0-11.0         Date Analyzed: 07/23/12 17:08
Lab Samp ID: G048-07                          Dilution Factor: 0.971
Lab File ID: 98G06068                         Matrix          : SOIL
Ext Btch ID: IMG020S                          % Moisture     : 11.1
Calib. Ref.: 98G06063                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16200	109	13.1
Antimony	0.191J	0.546	0.109
Arsenic	6.11	0.546	0.218
Barium	113	0.546	0.218
Beryllium	0.676	0.546	0.0546
Boron	ND	5.46	2.73
Cadmium	0.319J	0.546	0.0546
Calcium	3680	21.8	10.9
Chromium	21.1	0.546	0.218
Cobalt	7.44	0.546	0.0546
Copper	10.6	0.546	0.218
Iron	23600	109	10.9
Lead	7.69	0.546	0.109
Magnesium	5400	10.9	5.46
Manganese	437	0.546	0.273
Molybdenum	0.568	0.546	0.0546
Nickel	16.9	0.546	0.218
Potassium	3260	109	32.8
Selenium	ND	0.546	0.218
Silver	ND	0.546	0.0546
Sodium	369	109	54.6
Strontium	37.1	0.546	0.273
Thallium	0.314J	0.437	0.0546
Tin	ND	10.9	5.46
Titanium	1020	1.09	0.546
Vanadium	42.0	0.546	0.0546
Zinc	60.4	5.46	1.64
Lithium	22.6	2.18	1.09
Phosphorus	273	13.1	6.55
Zirconium	ND	5.46	2.73

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/10/12
Project     : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.    : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID:  SL-640-SA5C-SB-15.0-16.0         Date Analyzed: 07/23/12 17:13
Lab Samp ID: G048-08                          Dilution Factor: 0.985
Lab File ID: 98G06069                        Matrix          : SOIL
Ext Btch ID: IMG020S                         % Moisture     : 15.4
Calib. Ref.: 98G06063                        Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15800	116	14.0
Antimony	0.220J	0.582	0.116
Arsenic	4.60	0.582	0.233
Barium	85.2	0.582	0.233
Beryllium	0.631	0.582	0.0582
Boron	ND	5.82	2.91
Cadmium	0.322J	0.582	0.0582
Calcium	7010	23.3	11.6
Chromium	21.7	0.582	0.233
Cobalt	6.93	0.582	0.0582
Copper	11.4	0.582	0.233
Iron	23800	116	11.6
Lead	6.37	0.582	0.116
Magnesium	5510	11.6	5.82
Manganese	325	0.582	0.291
Molybdenum	0.330J	0.582	0.0582
Nickel	18.8	0.582	0.233
Potassium	3060	116	34.9
Selenium	ND	0.582	0.233
Silver	ND	0.582	0.0582
Sodium	269	116	58.2
Strontium	42.5	0.582	0.291
Thallium	0.262J	0.466	0.0582
Tin	ND	11.6	5.82
Titanium	895	1.16	0.582
Vanadium	37.6	0.582	0.0582
Zinc	56.5	5.82	1.75
Lithium	19.9	2.33	1.16
Phosphorus	324	14.0	6.99
Zirconium	3.39J	5.82	2.91

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/10/12
Project    : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.    : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID: SL-640-SA5C-SB-19.0-20.0         Date Analyzed: 07/23/12 17:17
Lab Samp ID: G048-09                          Dilution Factor: 1.00
Lab File ID: 98G06070                         Matrix          : SOIL
Ext Btch ID: IMG020S                           % Moisture     : 17.0
Calib. Ref.: 98G06063                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14700	120	14.5
Antimony	0.192J	0.602	0.120
Arsenic	5.49	0.602	0.241
Barium	98.1	0.602	0.241
Beryllium	0.615	0.602	0.0602
Boron	ND	6.02	3.01
Cadmium	0.566J	0.602	0.0602
Calcium	12000	24.1	12.0
Chromium	20.9	0.602	0.241
Cobalt	9.65	0.602	0.0602
Copper	10.2	0.602	0.241
Iron	23200	120	12.0
Lead	6.78	0.602	0.120
Magnesium	5240	12.0	6.02
Manganese	585	0.602	0.301
Molybdenum	0.513J	0.602	0.0602
Nickel	24.1	0.602	0.241
Potassium	2880	120	36.1
Selenium	ND	0.602	0.241
Silver	ND	0.602	0.0602
Sodium	205	120	60.2
Strontium	38.8	0.602	0.301
Thallium	0.275J	0.482	0.0602
Tin	ND	12.0	6.02
Titanium	995	1.20	0.602
Vanadium	38.5	0.602	0.0602
Zinc	60.3	6.02	1.81
Lithium	25.0	2.41	1.20
Phosphorus	361	14.5	7.23
Zirconium	3.11J	6.02	3.01

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.     : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID   : SL-641-SA5C-SB-4.0-5.0          Date Analyzed: 07/23/12 17:22
Lab Samp ID : G048-10                           Dilution Factor: 0.985
Lab File ID : 98G06071                         Matrix          : SOIL
Ext Btch ID : IMG020S                          % Moisture     : 11.1
Calib. Ref. : 98G06063                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	21900	111	13.3
Antimony	0.161J	0.554	0.111
Arsenic	5.39	0.554	0.222
Barium	154	0.554	0.222
Beryllium	0.863	0.554	0.0554
Boron	ND	5.54	2.77
Cadmium	0.190J	0.554	0.0554
Calcium	28100	22.2	11.1
Chromium	23.6	0.554	0.222
Cobalt	5.37	0.554	0.0554
Copper	7.76	0.554	0.222
Iron	24100	111	11.1
Lead	7.22	0.554	0.111
Magnesium	5370	11.1	5.54
Manganese	150	0.554	0.277
Molybdenum	0.227J	0.554	0.0554
Nickel	12.0	0.554	0.222
Potassium	1970	111	33.2
Selenium	ND	0.554	0.222
Silver	0.0576J	0.554	0.0554
Sodium	337	111	55.4
Strontium	73.6	0.554	0.277
Thallium	0.285J	0.443	0.0554
Tin	ND	11.1	5.54
Titanium	859	1.11	0.554
Vanadium	43.4	0.554	0.0554
Zinc	46.9	5.54	1.66
Lithium	26.9	2.22	1.11
Phosphorus	77.7	13.3	6.65
Zirconium	ND	5.54	2.77

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/10/12
Project    : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.    : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID: SL-641-SA5C-SB-9.0-10.0          Date Analyzed: 07/23/12 17:26
Lab Samp ID: G048-11                         Dilution Factor: 0.985
Lab File ID: 98G06072                       Matrix          : SOIL
Ext Btch ID: IMG020S                        % Moisture     : 8.6
Calib. Ref.: 98G06063                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12000	108	12.9
Antimony	0.157J	0.539	0.108
Arsenic	5.45	0.539	0.216
Barium	86.1	0.539	0.216
Beryllium	0.493J	0.539	0.0539
Boron	ND	5.39	2.69
Cadmium	0.393J	0.539	0.0539
Calcium	2720	21.6	10.8
Chromium	15.9	0.539	0.216
Cobalt	6.73	0.539	0.0539
Copper	8.06	0.539	0.216
Iron	18200	108	10.8
Lead	4.31	0.539	0.108
Magnesium	3900	10.8	5.39
Manganese	478	0.539	0.269
Molybdenum	0.342J	0.539	0.0539
Nickel	17.1	0.539	0.216
Potassium	2350	108	32.3
Selenium	ND	0.539	0.216
Silver	ND	0.539	0.0539
Sodium	228	108	53.9
Strontium	25.2	0.539	0.269
Thallium	0.228J	0.431	0.0539
Tin	ND	10.8	5.39
Titanium	916	1.08	0.539
Vanadium	34.5	0.539	0.0539
Zinc	44.2	5.39	1.62
Lithium	20.7	2.16	1.08
Phosphorus	252	12.9	6.47
Zirconium	ND	5.39	2.69

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.     : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID   : SL-641-SA5C-SB-14.0-15.0        Date Analyzed: 07/23/12 17:31
Lab Samp ID : G048-12                          Dilution Factor: 0.976
Lab File ID : 98G06073                        Matrix         : SOIL
Ext Btch ID : IMG020S                         % Moisture    : 14.5
Calib. Ref. : 98G06063                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16300	114	13.7
Antimony	0.204J	0.571	0.114
Arsenic	2.85	0.571	0.228
Barium	84.7	0.571	0.228
Beryllium	0.636	0.571	0.0571
Boron	2.97J	5.71	2.85
Cadmium	0.215J	0.571	0.0571
Calcium	22800	22.8	11.4
Chromium	24.0	0.571	0.228
Cobalt	4.42	0.571	0.0571
Copper	9.75	0.571	0.228
Iron	22000	114	11.4
Lead	5.13	0.571	0.114
Magnesium	5310	11.4	5.71
Manganese	156	0.571	0.285
Molybdenum	0.188J	0.571	0.0571
Nickel	11.3	0.571	0.228
Potassium	2620	114	34.2
Selenium	ND	0.571	0.228
Silver	ND	0.571	0.0571
Sodium	241	114	57.1
Strontium	63.2	0.571	0.285
Thallium	0.264J	0.457	0.0571
Tin	ND	11.4	5.71
Titanium	947	1.14	0.571
Vanadium	33.6	0.571	0.0571
Zinc	55.2	5.71	1.71
Lithium	21.3	2.28	1.14
Phosphorus	293	13.7	6.85
Zirconium	3.48J	5.71	2.85

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.     : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID   : SL-641-SA5C-SB-18.5-19.5        Date Analyzed: 07/23/12 17:49
Lab Samp ID : G048-13                          Dilution Factor: 0.966
Lab File ID : 98G06077                        Matrix         : SOIL
Ext Btch ID : IMG020S                         % Moisture    : 14.8
Calib. Ref. : 98G06075                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9090	113	13.6
Antimony	0.167J	0.567	0.113
Arsenic	4.55	0.567	0.227
Barium	68.1	0.567	0.227
Beryllium	0.416J	0.567	0.0567
Boron	ND	5.67	2.83
Cadmium	0.346J	0.567	0.0567
Calcium	2380	22.7	11.3
Chromium	12.0	0.567	0.227
Cobalt	7.53	0.567	0.0567
Copper	6.21	0.567	0.227
Iron	17300	113	11.3
Lead	5.53	0.567	0.113
Magnesium	3490	11.3	5.67
Manganese	439	0.567	0.283
Molybdenum	0.407J	0.567	0.0567
Nickel	14.5	0.567	0.227
Potassium	2170	113	34.0
Selenium	ND	0.567	0.227
Silver	ND	0.567	0.0567
Sodium	126	113	56.7
Strontium	18.5	0.567	0.283
Thallium	0.183J	0.454	0.0567
Tin	ND	11.3	5.67
Titanium	821	1.13	0.567
Vanadium	28.0	0.567	0.0567
Zinc	40.8	5.67	1.70
Lithium	18.8	2.27	1.13
Phosphorus	268	13.6	6.80
Zirconium	ND	5.67	2.83

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/10/12
Project     : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.    : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID:  SL-642-SA5C-SB-4.0-5.0           Date Analyzed: 07/23/12 17:54 # 07/25/12 14:25
Lab Samp ID: G048-15 #G048-15I              Dilution Factor: 0.995 # 4.98
Lab File ID: 98G06078 #98G07045             Matrix          : SOIL
Ext Btch ID: IMG020S                         % Moisture      : 10.1
Calib. Ref.: 98G06075 #98G07037             Instrument ID   : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20700	111	13.3
Antimony	0.162J	0.553	0.111
Arsenic	5.01	0.553	0.221
Barium	147	0.553	0.221
# Beryllium	0.866J	2.77	0.277
# Boron	ND	27.7	13.8
Cadmium	0.232J	0.553	0.0553
Calcium	41500	22.1	11.1
Chromium	25.4	0.553	0.221
Cobalt	8.18	0.553	0.0553
Copper	9.15	0.553	0.221
Iron	24700	111	11.1
Lead	7.02	0.553	0.111
Magnesium	5200	11.1	5.53
Manganese	182	0.553	0.277
Molybdenum	0.222J	0.553	0.0553
Nickel	13.0	0.553	0.221
Potassium	2150	111	33.2
Selenium	ND	0.553	0.221
Silver	ND	0.553	0.0553
Sodium	396	111	55.3
Strontium	91.9	0.553	0.277
Thallium	0.277J	0.443	0.0553
Tin	ND	11.1	5.53
Titanium	904	1.11	0.553
Vanadium	45.7	0.553	0.0553
Zinc	48.2	5.53	1.66
# Lithium	24.7	11.1	5.54
Phosphorus	101	13.3	6.64
Zirconium	3.05J	5.53	2.77

# Members of the Associated File

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/10/12
Project    : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.    : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID: SL-642-SA5C-SB-9.0-10.0          Date Analyzed: 07/23/12 17:58
Lab Samp ID: G048-16                         Dilution Factor: 0.985
Lab File ID: 98G06079                       Matrix          : SOIL
Ext Btch ID: IMG020S                        % Moisture     : 11.1
Calib. Ref.: 98G06075                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15000	111	13.3
Antimony	ND	0.554	0.111
Arsenic	2.16	0.554	0.222
Barium	66.6	0.554	0.222
Beryllium	0.653	0.554	0.0554
Boron	ND	5.54	2.77
Cadmium	0.174J	0.554	0.0554
Calcium	5100	22.2	11.1
Chromium	21.7	0.554	0.222
Cobalt	4.33	0.554	0.0554
Copper	8.16	0.554	0.222
Iron	21600	111	11.1
Lead	5.25	0.554	0.111
Magnesium	4610	11.1	5.54
Manganese	145	0.554	0.277
Molybdenum	0.183J	0.554	0.0554
Nickel	11.2	0.554	0.222
Potassium	2260	111	33.2
Selenium	ND	0.554	0.222
Silver	0.0670J	0.554	0.0554
Sodium	379	111	55.4
Strontium	37.7	0.554	0.277
Thallium	0.239J	0.443	0.0554
Tin	ND	11.1	5.54
Titanium	860	1.11	0.554
Vanadium	28.4	0.554	0.0554
Zinc	50.6	5.54	1.66
Lithium	18.4	2.22	1.11
Phosphorus	207	13.3	6.65
Zirconium	ND	5.54	2.77

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 07/10/12
Project      : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.     : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID   : SL-642-SA5C-SB-14.0-15.0        Date Analyzed: 07/23/12 18:02
Lab Samp ID : G048-17                          Dilution Factor: 0.976
Lab File ID : 98G06080                        Matrix          : SOIL
Ext Btch ID : IMG020S                         % Moisture     : 14.1
Calib. Ref. : 98G06075                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13800	114	13.6
Antimony	0.209J	0.568	0.114
Arsenic	4.24	0.568	0.227
Barium	82.5	0.568	0.227
Beryllium	0.534J	0.568	0.0568
Boron	ND	5.68	2.84
Cadmium	0.192J	0.568	0.0568
Calcium	6380	22.7	11.4
Chromium	20.2	0.568	0.227
Cobalt	4.42	0.568	0.0568
Copper	9.31	0.568	0.227
Iron	21400	114	11.4
Lead	5.24	0.568	0.114
Magnesium	4890	11.4	5.68
Manganese	163	0.568	0.284
Molybdenum	0.467J	0.568	0.0568
Nickel	11.6	0.568	0.227
Potassium	2810	114	34.1
Selenium	ND	0.568	0.227
Silver	ND	0.568	0.0568
Sodium	245	114	56.8
Strontium	36.8	0.568	0.284
Thallium	0.255J	0.454	0.0568
Tin	ND	11.4	5.68
Titanium	944	1.14	0.568
Vanadium	35.0	0.568	0.0568
Zinc	54.0	5.68	1.70
Lithium	20.5	2.27	1.14
Phosphorus	324	13.6	6.82
Zirconium	ND	5.68	2.84

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/10/12
Project     : SSFL PHASE 3                     Date Received: 07/10/12
SDG NO.    : 12G048                           Date Extracted: 07/17/12 14:00
Sample ID:  SL-642-SA5C-SB-17.5-18.5         Date Analyzed: 07/23/12 16:27
Lab Samp ID: G048-18                          Dilution Factor: 0.962
Lab File ID: 98G06059                         Matrix          : SOIL
Ext Btch ID: IMG020S                          % Moisture     : 9.8
Calib. Ref.: 98G06051                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10900	107	12.8
Antimony	0.138J	0.533	0.107
Arsenic	5.29	0.533	0.213
Barium	57.4	0.533	0.213
Beryllium	0.439J	0.533	0.0533
Boron	ND	5.33	2.67
Cadmium	0.151J	0.533	0.0533
Calcium	3290	21.3	10.7
Chromium	15.4	0.533	0.213
Cobalt	4.53	0.533	0.0533
Copper	6.74	0.533	0.213
Iron	20000	107	10.7
Lead	4.04	0.533	0.107
Magnesium	4410	10.7	5.33
Manganese	168	0.533	0.267
Molybdenum	0.295J	0.533	0.0533
Nickel	8.91	0.533	0.213
Potassium	2020	107	32.0
Selenium	ND	0.533	0.213
Silver	ND	0.533	0.0533
Sodium	152	107	53.3
Strontium	24.5	0.533	0.267
Thallium	0.202J	0.427	0.0533
Tin	ND	10.7	5.33
Titanium	951	1.07	0.533
Vanadium	31.9	0.533	0.0533
Zinc	45.5	5.33	1.60
Lithium	24.2	2.13	1.07
Phosphorus	256	12.8	6.40
Zirconium	ND	5.33	2.67

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 07/17/12
SDG NO.    : 12G048                            Date Extracted: 07/17/12 14:00
Sample ID: MBLK1S                               Date Analyzed: 07/23/12 16:00
Lab Samp ID: IMG020SB                           Dilution Factor: 1
Lab File ID: 98G06053                           Matrix          : SOIL
Ext Btch ID: IMG020S                             % Moisture      : NA
Calib. Ref.: 98G06051                           Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G048  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMG020SB IMG020SL IMG020SC  
LAB FILE ID: 98G06053 98G06054 98G06055  
DATIME EXTRACTD: 07/17/1214:00 07/17/1214:00 07/17/1214:00 DATE COLLECTED: NA  
DATIME ANALYZD: 07/23/1216:00 07/23/1216:05 07/23/1216:09 DATE RECEIVED: 07/17/12  
PREP. BATCH: IMG020S IMG020S IMG020S  
CALIB. REF: 98G06051 98G06051 98G06051

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2590	103	2500	2600	104	0	80-120	20
Antimony	ND	25.0	24.9	100	25.0	24.7	99	1	80-120	20
Arsenic	ND	25.0	24.1	96	25.0	24.0	96	0	80-120	20
Barium	ND	25.0	25.2	101	25.0	24.8	99	2	80-120	20
Beryllium	ND	25.0	23.8	95	25.0	23.9	96	1	80-120	20
Boron	ND	25.0	23.7	95	25.0	24.2	97	2	80-120	20
Cadmium	ND	25.0	24.5	98	25.0	24.3	97	1	80-120	20
Calcium	ND	2500	2640	106	2500	2600	104	2	80-120	20
Chromium	ND	25.0	23.9	95	25.0	24.1	97	1	80-120	20
Cobalt	ND	25.0	24.2	97	25.0	24.8	99	2	80-120	20
Copper	ND	25.0	23.3	93	25.0	23.5	94	1	80-120	20
Iron	ND	2500	2560	103	2500	2520	101	2	80-120	20
Lead	ND	25.0	24.5	98	25.0	24.4	98	0	80-120	20
Magnesium	ND	2500	2610	104	2500	2610	104	0	80-120	20
Manganese	ND	25.0	24.6	98	25.0	24.9	100	1	80-120	20
Molybdenum	ND	25.0	24.8	99	25.0	24.7	99	1	80-120	20
Nickel	ND	25.0	23.4	94	25.0	23.5	94	1	80-120	20
Potassium	ND	2500	2590	104	2500	2590	103	0	80-120	20
Selenium	ND	25.0	23.0	92	25.0	23.0	92	0	80-120	20
Silver	ND	25.0	25.0	100	25.0	24.6	98	2	80-120	20
Sodium	ND	2500	2550	102	2500	2530	101	1	80-120	20
Strontium	ND	25.0	24.7	99	25.0	24.8	99	1	80-120	20
Thallium	ND	25.0	24.4	98	25.0	24.3	97	1	80-120	20
Tin	ND	25.0	27.1	108	25.0	27.2	109	0	80-120	20
Titanium	ND	25.0	24.8	99	25.0	25.3	101	2	80-120	20
Vanadium	ND	25.0	23.7	95	25.0	23.9	96	1	80-120	20
Zinc	ND	50.0	47.3	95	50.0	47.4	95	0	80-120	20
Lithium	ND	25.0	24.3	97	25.0	25.0	100	3	80-120	20
Phosphorus	ND	250	240	96	250	242	97	0	80-120	20
Zirconium	ND	25.0	25.6	102	25.0	25.8	103	1	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G048  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 9.8  
DILTN FACTR: 0.962 0.971 0.980  
SAMPLE ID: SL-642-SA5C-SB-17.5-18.5  
CONTROL NO.: G048-18 G048-18M G048-18S  
LAB FILE ID: 98G06059 98G06056 98G06057  
DATIME EXTRACTD: 07/17/1214:00 07/17/1214:00 07/17/1214:00 DATE COLLECTED: 07/10/12  
DATIME ANALYZD: 07/23/1216:27 07/23/1216:14 07/23/1216:18 DATE RECEIVED: 07/10/12  
PREP. BATCH: IMG020S IMG020S IMG020S  
CALIB. REF: 98G06051 98G06051 98G06051

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	10900	2690	14000	112	2720	14600	134*	4	75-125	20
Antimony	0.138J	26.9	23.3	86	27.2	21.8	80	7	75-125	20
Arsenic	5.29	26.9	31.1	96	27.2	31.0	95	0	75-125	20
Barium	57.4	26.9	90.1	121	27.2	101	159*	11	75-125	20
Beryllium	0.439J	26.9	27.6	101	27.2	27.8	101	1	75-125	20
Boron	ND	26.9	27.7	103	27.2	27.8	102	0	75-125	20
Cadmium	0.151J	26.9	26.9	100	27.2	27.4	100	2	75-125	20
Calcium	3290	2690	6300	112	2720	6300	111	0	75-125	20
Chromium	15.4	26.9	40.2	92	27.2	42.0	98	4	75-125	20
Cobalt	4.53	26.9	29.7	94	27.2	29.6	92	0	75-125	20
Copper	6.74	26.9	30.7	89	27.2	30.7	88	0	75-125	20
Iron	20000	2690	23000	111	2720	23700	136*	3	75-125	20
Lead	4.04	26.9	31.0	100	27.2	31.1	100	0	75-125	20
Magnesium	4410	2690	7190	103	2720	7400	110	3	75-125	20
Manganese	168	26.9	194	95	27.2	216	177*	11	75-125	20
Molybdenum	0.295J	26.9	27.5	101	27.2	27.8	101	1	75-125	20
Nickel	8.91	26.9	33.0	90	27.2	34.2	93	3	75-125	20
Potassium	2020	2690	4820	104	2720	4850	104	1	75-125	20
Selenium	ND	26.9	25.1	93	27.2	25.1	92	0	75-125	20
Silver	ND	26.9	27.0	100	27.2	27.3	100	1	75-125	20
Sodium	152	2690	2690	94	2720	2740	95	2	75-125	20
Strontium	24.5	26.9	52.1	102	27.2	54.3	110	4	75-125	20
Thallium	0.202J	26.9	26.6	98	27.2	26.9	98	1	75-125	20
Tin	ND	26.9	32.1	119	27.2	31.0	114	4	75-125	20
Titanium	951	26.9	952	3*	27.2	978	100	3	75-125	20
Vanadium	31.9	26.9	57.8	96	27.2	59.3	101	3	75-125	20
Zinc	45.5	53.8	97.6	97	54.3	100	100	3	75-125	20
Lithium	24.2	26.9	53.4	109	27.2	55.5	115	4	75-125	20
Phosphorus	256	269	575	118	272	582	120	1	75-125	20
Zirconium	ND	26.9	29.3	109	27.2	30.5	112	4	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G048  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 9.8  
DILT% FACTR: 0.962 0.962  
SAMPLE ID: SL-642-SA5C-SB-17.5-18.5  
CONTROL NO.: G048-18 G048-18A  
LAB FILE ID: 98G06059 98G06058  
DATIME EXTRACTD: 07/17/1214:00 07/17/1214:00 DATE COLLECTED: 07/10/12  
DATIME ANALYZD: 07/23/1216:27 07/23/1216:22 DATE RECEIVED: 07/10/12  
PREP. BATCH: IMG020S IMG020S  
CALIB. REF: 98G06051 98G06051

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	10900	2670	14000	113	75-125
Antimony	0.138J	26.7	26.2	98	75-125
Arsenic	5.29	26.7	29.7	91	75-125
Barium	57.4	26.7	85.7	106	75-125
Beryllium	0.439J	26.7	25.2	93	75-125
Boron	ND	26.7	25.8	97	75-125
Cadmium	0.151J	26.7	25.7	96	75-125
Calcium	3290	2670	6000	102	75-125
Chromium	15.4	26.7	38.1	85	75-125
Cobalt	4.53	26.7	27.9	88	75-125
Copper	6.74	26.7	28.6	82	75-125
Iron	20000	2670	22200	84	75-125
Lead	4.04	26.7	28.8	93	75-125
Magnesium	4410	2670	7170	104	75-125
Manganese	168	26.7	189	76	75-125
Molybdenum	0.295J	26.7	26.4	98	75-125
Nickel	8.91	26.7	31.0	83	75-125
Potassium	2020	2670	4750	102	75-125
Selenium	ND	26.7	24.1	90	75-125
Silver	ND	26.7	25.7	96	75-125
Sodium	152	2670	2770	98	75-125
Strontium	24.5	26.7	49.4	94	75-125
Thallium	0.202J	26.7	24.9	93	75-125
Tin	ND	26.7	30.1	113	75-125
Titanium	951	26.7	977	96	75-125
Vanadium	31.9	26.7	54.9	86	75-125
Zinc	45.5	53.3	93.5	90	75-125
Lithium	24.2	26.7	50.0	97	75-125
Phosphorus	256	267	539	106	75-125
Zirconium	ND	26.7	27.7	104	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12G048  
 METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 9.8  
 DILUTION FACTOR: 0.962 4.81  
 SAMPLE ID: SL-642-SA5C-SB SL-642-SA5C-SB  
 EMAX SAMP ID: G048-18 G048-18J  
 LAB FILE ID: 98G06059 98G06060  
 DATE EXTRACTED: 07/17/1214:00 07/17/1214:00 DATE COLLECTED: 07/10/12  
 DATE ANALYZED: 07/23/1216:27 07/23/1216:31 DATE RECEIVED: 07/10/12  
 PREP. BATCH: IMG020S IMG020S  
 CALIB. REF: 98G06051 98G06051

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	10900	11600	6	10
Antimony	0.138J	ND	NA	10
Arsenic	5.29	5.58	6	10
Barium	57.4	57.1	1	10
Beryllium	0.439J	0.448J	NA	10
Boron	ND	ND	0	10
Cadmium	0.151J	ND	NA	10
Calcium	3290	3520	7	10
Chromium	15.4	16.5	8	10
Cobalt	4.53	4.90	8	10
Copper	6.74	7.39	10	10
Iron	20000	21400	7	10
Lead	4.04	4.09	1	10
Magnesium	4410	4660	6	10
Manganese	168	183	9	10
Molybdenum	0.295J	0.269J	NA	10
Nickel	8.91	9.84	11*	10
Potassium	2020	2140	6	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	152	ND	NA	10
Strontium	24.5	24.3	1	10
Thallium	0.202J	ND	NA	10
Tin	ND	ND	0	10
Titanium	951	976	3	10
Vanadium	31.9	33.5	5	10
Zinc	45.5	46.6	2	10
Lithium	24.2	22.3	8	10
Phosphorus	256	286	12*	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G048

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS			RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction			CAL REF	PREP BATCH	Collection		Received DATETIME
		(mg/kg)	DLF	MOIST				DATETIME	LFID	DATETIME			DATETIME	DATETIME	
MBLK1S	HGG020SB	ND	1	NA	0.100	0.0500	07/20/1210:06	07/19/1214:15	M47G019010	M47G019008	HGG020S	NA	07/19/12	07/19/12	
LCS1S	HGG020SL	0.843	1	NA	0.100	0.0500	07/20/1210:09	07/19/1214:15	M47G019011	M47G019008	HGG020S	NA	07/19/12	07/19/12	
LCD1S	HGG020SC	0.848	1	NA	0.100	0.0500	07/20/1210:11	07/19/1214:15	M47G019012	M47G019008	HGG020S	NA	07/19/12	07/19/12	
SL-640-SA5C-SB-15.0-16.0AS	G048-08A	1.03	1.00	15.4	0.118	0.0591	07/20/1210:13	07/19/1214:15	M47G019013	M47G019008	HGG020S	07/10/12	07/10/12	07/10/12	
SL-640-SA5C-SB-15.0-16.0	G048-08	ND	1.00	15.4	0.118	0.0591	07/20/1210:15	07/19/1214:15	M47G019014	M47G019008	HGG020S	07/10/12	07/10/12	07/10/12	
SL-640-SA5C-SB-15.0-16.0DL	G048-08J	ND	5.00	15.4	0.591	0.296	07/20/1210:17	07/19/1214:15	M47G019015	M47G019008	HGG020S	07/10/12	07/10/12	07/10/12	
SL-640-SA5C-SB-15.0-16.0MS	G048-08M	0.987	1.01	15.4	0.119	0.0597	07/20/1210:19	07/19/1214:15	M47G019016	M47G019008	HGG020S	07/10/12	07/10/12	07/10/12	
SL-640-SA5C-SB-15.0-16.0MSD	G048-08S	0.991	1.01	15.4	0.119	0.0597	07/20/1210:21	07/19/1214:15	M47G019017	M47G019008	HGG020S	07/10/12	07/10/12	07/10/12	
SL-755-SA5C-SB-0.0-0.5	G048-01	ND	0.990	6.1	0.105	0.0527	07/20/1210:23	07/19/1214:15	M47G019018	M47G019008	HGG020S	07/10/12	07/10/12	07/10/12	
SL-755-SA5C-SB-4.0-5.0	G048-02	ND	0.997	10.0	0.111	0.0554	07/20/1210:26	07/19/1214:15	M47G019019	M47G019008	HGG020S	07/10/12	07/10/12	07/10/12	
SL-755-SA5C-SB-5.5-6.5	G048-04	ND	0.997	8.3	0.109	0.0544	07/20/1210:33	07/19/1214:15	M47G019022	M47G019020	HGG020S	07/10/12	07/10/12	07/10/12	
SL-640-SA5C-SB-5.0-6.0	G048-06	ND	1.00	11.0	0.112	0.0562	07/20/1210:35	07/19/1214:15	M47G019023	M47G019020	HGG020S	07/10/12	07/10/12	07/10/12	
SL-640-SA5C-SB-10.0-11.0	G048-07	ND	1.00	11.1	0.112	0.0562	07/20/1210:37	07/19/1214:15	M47G019024	M47G019020	HGG020S	07/10/12	07/10/12	07/10/12	
SL-640-SA5C-SB-19.0-20.0	G048-09	ND	1.00	17.0	0.120	0.0602	07/20/1210:39	07/19/1214:15	M47G019025	M47G019020	HGG020S	07/10/12	07/10/12	07/10/12	
SL-641-SA5C-SB-4.0-5.0	G048-10	ND	1.00	11.1	0.112	0.0562	07/20/1210:41	07/19/1214:15	M47G019026	M47G019020	HGG020S	07/10/12	07/10/12	07/10/12	
SL-641-SA5C-SB-9.0-10.0	G048-11	ND	1.00	8.6	0.109	0.0547	07/20/1210:43	07/19/1214:15	M47G019027	M47G019020	HGG020S	07/10/12	07/10/12	07/10/12	
SL-641-SA5C-SB-14.0-15.0	G048-12	ND	1.00	14.5	0.117	0.0585	07/20/1210:45	07/19/1214:15	M47G019028	M47G019020	HGG020S	07/10/12	07/10/12	07/10/12	
SL-641-SA5C-SB-18.5-19.5	G048-13	ND	0.998	14.8	0.117	0.0586	07/20/1210:47	07/19/1214:15	M47G019029	M47G019020	HGG020S	07/10/12	07/10/12	07/10/12	
SL-642-SA5C-SB-4.0-5.0	G048-15	ND	1.00	10.1	0.111	0.0556	07/20/1210:49	07/19/1214:15	M47G019030	M47G019020	HGG020S	07/10/12	07/10/12	07/10/12	
SL-642-SA5C-SB-9.0-10.0	G048-16	ND	1.00	11.1	0.112	0.0562	07/20/1210:51	07/19/1214:15	M47G019031	M47G019020	HGG020S	07/10/12	07/10/12	07/10/12	
SL-642-SA5C-SB-14.0-15.0	G048-17	ND	1.00	14.1	0.116	0.0582	07/20/1210:58	07/19/1214:15	M47G019034	M47G019032	HGG020S	07/10/12	07/10/12	07/10/12	
SL-642-SA5C-SB-17.5-18.5	G048-18	ND	1.01	9.8	0.112	0.0560	07/20/1211:00	07/19/1214:15	M47G019035	M47G019032	HGG020S	07/10/12	07/10/12	07/10/12	

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G048  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGG020SB HGG020SL HGG020SC  
LAB FILE ID: M47G019010 M47G019011 M47G019012  
DATIME EXTRCTD: 07/19/1214:15 07/19/1214:15 07/19/1214:15 DATE COLLECTED: NA  
DATIME ANALYZD: 07/20/1210:06 07/20/1210:09 07/20/1210:11 DATE RECEIVED: 07/19/12  
PREP. BATCH: HGG020S HGG020S HGG020S  
CALIB. REF: M47G019008 M47G019008 M47G019008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.843	101	.833	.848	102	1	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G048  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 15.4  
DILTN FACTR: 1.00 1.01 1.01  
SAMPLE ID: SL-640-SA5C-SB-15.0-16.0  
CONTROL NO.: G048-08 G048-08M G048-08S  
LAB FILE ID: M47G019014 M47G019016 M47G019017  
DATIME EXTRCTD: 07/19/1214:15 07/19/1214:15 07/19/1214:15 DATE COLLECTED: 07/10/12  
DATIME ANALYZD: 07/20/1210:15 07/20/1210:19 07/20/1210:21 DATE RECEIVED: 07/10/12  
PREP. BATCH: HGG020S HGG020S HGG020S  
CALIB. REF: M47G019008 M47G019008 M47G019008

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.994	.987	99	.994	.991	100	0	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G048  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: 15.4  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-640-SA5C-SB-15.0-16.0  
CONTROL NO.: G048-08 G048-08A  
LAB FILE ID: M47G019014 M47G019013  
DATIME EXTRCTD: 07/19/1214:15 07/19/1214:15 DATE COLLECTED: 07/10/12  
DATIME ANALYZD: 07/20/1210:15 07/20/1210:13 DATE RECEIVED: 07/10/12  
PREP. BATCH: HGG020S HGG020S  
CALIB. REF: M47G019008 M47G019008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.985	1.03	105	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12G048  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	15.4
DILUTION FACTOR:	1.00	5.00		
SAMPLE ID:	SL-640-SA5C-SB-15.0	SL-640-SA5C-SB-15.0		
EMAX SAMP ID:	G048-08	G048-08J		
LAB FILE ID:	M47G019014	M47G019015		
DATE EXTRACTED:	07/19/1214:15	07/19/1214:15	DATE COLLECTED:	07/10/12
DATE ANALYZED:	07/20/1210:15	07/20/1210:17	DATE RECEIVED:	07/10/12
PREP. BATCH:	HGG020S	HGG020S		
CALIB. REF:	M47G019008	M47G019008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
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Mercury	ND	ND	0	10

METHOD 6850  
PERCHLORATE

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Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G048  
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Matrix : SOIL  
Instrument ID : G0  
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SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLG004SB	ND	1	NA	5.00	2.50	07/19/1214:46	07/16/1210:25	MG19014	MG19013	PLG004S	NA	07/16/12
LCS1S	PLG004SL	24.0	1	NA	5.00	2.50	07/19/1215:00	07/16/1210:25	MG19015	MG19013	PLG004S	NA	07/16/12
LCD1S	PLG004SC	24.2	1	NA	5.00	2.50	07/19/1215:14	07/16/1210:25	MG19016	MG19013	PLG004S	NA	07/16/12
SL-640-SA5C-SB-5.0-6.0	G048-06	ND	1	11.0	5.62	2.81	07/19/1215:29	07/16/1210:25	MG19017	MG19013	PLG004S	07/10/1208:40	07/10/12
SL-640-SA5C-SB-10.0-11.0	G048-07	ND	1	11.1	5.62	2.81	07/19/1216:30	07/16/1210:25	MG19018	MG19013	PLG004S	07/10/1208:45	07/10/12
SL-640-SA5C-SB-15.0-16.0	G048-08	ND	1	15.4	5.91	2.96	07/19/1216:44	07/16/1210:25	MG19019	MG19013	PLG004S	07/10/1208:50	07/10/12
SL-640-SA5C-SB-19.0-20.0	G048-09	ND	1	17.0	6.02	3.01	07/19/1216:58	07/16/1210:25	MG19020	MG19013	PLG004S	07/10/1208:55	07/10/12
SL-641-SA5C-SB-4.0-5.0	G048-10	ND	1	11.1	5.62	2.81	07/19/1217:12	07/16/1210:25	MG19021	MG19013	PLG004S	07/10/1210:10	07/10/12
SL-641-SA5C-SB-9.0-10.0	G048-11	ND	1	8.6	5.47	2.74	07/19/1217:26	07/16/1210:25	MG19022	MG19013	PLG004S	07/10/1210:20	07/10/12
SL-641-SA5C-SB-14.0-15.0	G048-12	ND	1	14.5	5.85	2.92	07/19/1217:41	07/16/1210:25	MG19023	MG19013	PLG004S	07/10/1210:25	07/10/12
SL-641-SA5C-SB-18.5-19.5	G048-13	ND	1	14.8	5.87	2.93	07/19/1218:09	07/16/1210:25	MG19025	MG19024	PLG004S	07/10/1210:30	07/10/12
SL-642-SA5C-SB-4.0-5.0	G048-15	ND	1	10.1	5.56	2.78	07/19/1218:23	07/16/1210:25	MG19026	MG19024	PLG004S	07/10/1212:40	07/10/12
SL-642-SA5C-SB-9.0-10.0	G048-16	ND	1	11.1	5.62	2.81	07/19/1218:37	07/16/1210:25	MG19027	MG19024	PLG004S	07/10/1212:45	07/10/12
SL-642-SA5C-SB-14.0-15.0	G048-17	ND	1	14.1	5.82	2.91	07/19/1218:51	07/16/1210:25	MG19028	MG19024	PLG004S	07/10/1212:50	07/10/12
SL-642-SA5C-SB-17.5-18.5	G048-18	ND	1	9.8	5.54	2.77	07/19/1219:05	07/16/1210:25	MG19029	MG19024	PLG004S	07/10/1212:55	07/10/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G048  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLG004SB PLG004SL PLG004SC  
LAB FILE ID: MG19014 MG19015 MG19016  
DATE EXTRACTED: 07/16/1210:25 07/16/1210:25 07/16/1210:25 DATE COLLECTED: NA  
DATE ANALYZED: 07/19/1214:46 07/19/1215:00 07/19/1215:14 DATE RECEIVED: 07/16/12  
PREP. BATCH: PLG004S PLG004S PLG004S  
CALIB. REF: MG19013 MG19013 MG19013

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	24.0	96	25.0	24.2	97	0	85-115	20

METHOD 7199  
HEXAVALENT CHROMIUM

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G048

Matrix : SOIL  
Instrument ID : 159

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Receive DATETIM
MBLK1S	HCG004SB	ND	1	NA	1.00	0.500	07/18/1212:49	07/16/1216:58	IG18003	IG18001	HCG004S	NA	07/16/1
LCS1S	CSG004SL	8.15	1	NA	1.00	0.500	07/18/1214:22	07/16/1216:58	IG18005	IG18001	HCG004S	NA	07/16/1
LCS2S	CIG004SL	183	10	NA	10.0	5.00	07/18/1214:43	07/16/1216:58	IG18007	IG18001	HCG004S	NA	07/16/1
SL-642-SA5C-SB-17.5-18.5MS	G048-18M	8.94	1	9.8	1.11	0.554	07/18/1215:35	07/16/1216:58	IG18009	IG18001	HCG004S	07/10/1212:55	07/10/1
SL-642-SA5C-SB-17.5-18.5MSD	G048-18S	9.08	1	9.8	1.11	0.554	07/18/1215:56	07/16/1216:58	IG18011	IG18001	HCG004S	07/10/1212:55	07/10/1
SL-642-SA5C-SB-17.5-18.5MS	G048-18M	304	10	9.8	11.1	5.54	07/18/1216:37	07/16/1216:58	IG18015	IG18013	HCG004S	07/10/1212:55	07/10/1
SL-642-SA5C-SB-17.5-18.5MSD	G048-18S	299	10	9.8	11.1	5.54	07/18/1216:58	07/16/1216:58	IG18017	IG18013	HCG004S	07/10/1212:55	07/10/1
SL-642-SA5C-SB-17.5-18.5	G048-18	ND	1	9.8	1.11	0.554	07/18/1217:19	07/16/1216:58	IG18019	IG18013	HCG004S	07/10/1212:55	07/10/1
SL-642-SA5C-SB-14.0-15.0	G048-17	ND	1	14.1	1.16	0.582	07/18/1217:40	07/16/1216:58	IG18021	IG18013	HCG004S	07/10/1212:50	07/10/1
SL-642-SA5C-SB-9.0-10.0	G048-16	ND	1	11.1	1.12	0.562	07/18/1218:00	07/16/1216:58	IG18023	IG18013	HCG004S	07/10/1212:45	07/10/1
SL-642-SA5C-SB-4.0-5.0	G048-15	ND	1	10.1	1.11	0.556	07/18/1218:42	07/16/1216:58	IG18027	IG18025	HCG004S	07/10/1212:40	07/10/1
SL-641-SA5C-SB-18.5-19.5	G048-13	ND	1	14.8	1.17	0.587	07/18/1219:03	07/16/1216:58	IG18029	IG18025	HCG004S	07/10/1210:30	07/10/1
SL-641-SA5C-SB-14.0-15.0	G048-12	ND	1	14.5	1.17	0.585	07/18/1219:24	07/16/1216:58	IG18031	IG18025	HCG004S	07/10/1210:25	07/10/1
SL-641-SA5C-SB-9.0-10.0	G048-11	ND	1	8.6	1.09	0.547	07/18/1219:44	07/16/1216:58	IG18033	IG18025	HCG004S	07/10/1210:20	07/10/1
SL-641-SA5C-SB-4.0-5.0	G048-10	ND	1	11.1	1.12	0.562	07/18/1220:05	07/16/1216:58	IG18035	IG18025	HCG004S	07/10/1210:10	07/10/1
SL-640-SA5C-SB-19.0-20.0	G048-09	ND	1	17.0	1.20	0.602	07/18/1220:47	07/16/1216:58	IG18039	IG18037	HCG004S	07/10/1208:55	07/10/1
SL-640-SA5C-SB-15.0-16.0	G048-08	ND	1	15.4	1.18	0.591	07/18/1221:08	07/16/1216:58	IG18041	IG18037	HCG004S	07/10/1208:50	07/10/1
SL-640-SA5C-SB-10.0-11.0	G048-07	ND	1	11.1	1.12	0.562	07/18/1221:28	07/16/1216:58	IG18043	IG18037	HCG004S	07/10/1208:45	07/10/1
SL-640-SA5C-SB-5.0-6.0	G048-06	ND	1	11.0	1.12	0.562	07/18/1221:49	07/16/1216:58	IG18045	IG18037	HCG004S	07/10/1208:40	07/10/1

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G048  
METHOD: 7199

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MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCG004SB CSG004SL  
LAB FILE ID: IG18003 IG18005  
DATE EXTRACTED: 07/16/1216:58 07/16/1216:58 DATE COLLECTED: NA  
DATE ANALYZED: 07/18/1212:49 07/18/1214:22 DATE RECEIVED: 07/16/12  
PREP. BATCH: HCG004S HCG004S  
CALIB. REF: IG18001 IG18001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	8.15	82	80-120

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G048  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 10  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCG004SB CIG004SL  
LAB FILE ID: IG18003 IG18007  
DATE EXTRACTED: 07/16/1216:58 07/16/1216:58 DATE COLLECTED: NA  
DATE ANALYZED: 07/18/1212:49 07/18/1214:43 DATE RECEIVED: 07/16/12  
PREP. BATCH: HCG004S HCG004S  
CALIB. REF: IG18001 IG18001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	218	183	84	80-120

INSOLUBLE HEXAVALENT CHROMIUM

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G048  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 9.8  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-642-SA5C-SB-17.5-18.5  
LAB SAMP ID: G048-18 G048-18M G048-18S  
LAB FILE ID: IG18019 IG18009 IG18011  
DATE EXTRACTED: 07/16/1216:58 07/16/1216:58 07/16/1216:58 DATE COLLECTED: 07/10/12 12:55  
DATE ANALYZED: 07/18/1217:19 07/18/1215:35 07/18/1215:56 DATE RECEIVED: 07/10/12  
PREP. BATCH: HCG004S HCG004S HCG004S  
CALIB. REF: IG18013 IG18001 IG18001

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	11.1	8.94	81	11.1	9.08	82	2	75-125	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G048  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: 9.8  
DILUTION FACTOR: 1 10 10  
SAMPLE ID: SL-642-SA5C-SB-17.5-18.5  
LAB SAMP ID: G048-18 G048-18M G048-18S  
LAB FILE ID: IG18019 IG18015 IG18017  
DATE EXTRACTED: 07/16/1216:58 07/16/1216:58 07/16/1216:58 DATE COLLECTED: 07/10/12 12:55  
DATE ANALYZED: 07/18/1217:19 07/18/1216:37 07/18/1216:58 DATE RECEIVED: 07/10/12  
PREP. BATCH: HCG004S HCG004S HCG004S  
CALIB. REF: IG18013 IG18013 IG18013

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	358	304	85	352	299	85	2	75-125	20

INSOLUBLE HEXAVALENT CHROMIUM

METHOD 9045D  
PH

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G048

Matrix : SOIL  
Instrument ID : 53

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-755-SA5C-SB-0.0-0.5	G048-01	6.44	1	NA	NA	NA	07/11/1217:50	07/11/1215:43	12PHG008S01	12PHG008	PHG008S	07/10/1207:15	07/10/12
SL-755-SA5C-SB-4.0-5.0	G048-02	7.32	1	NA	NA	NA	07/11/1217:52	07/11/1215:43	12PHG008S02	12PHG008	PHG008S	07/10/1207:20	07/10/12
SL-755-SA5C-SB-5.5-6.5	G048-04	7.82	1	NA	NA	NA	07/11/1217:55	07/11/1215:43	12PHG008S03	12PHG008	PHG008S	07/10/1207:30	07/10/12
SL-640-SA5C-SB-5.0-6.0	G048-06	8.38	1	NA	NA	NA	07/11/1217:56	07/11/1215:43	12PHG008S04	12PHG008	PHG008S	07/10/1208:40	07/10/12
SL-640-SA5C-SB-10.0-11.0	G048-07	8.28	1	NA	NA	NA	07/11/1217:58	07/11/1215:43	12PHG008S05	12PHG008	PHG008S	07/10/1208:45	07/10/12
SL-640-SA5C-SB-15.0-16.0	G048-08	8.58	1	NA	NA	NA	07/11/1218:00	07/11/1215:43	12PHG008S06	12PHG008	PHG008S	07/10/1208:50	07/10/12
SL-640-SA5C-SB-19.0-20.0	G048-09	8.40	1	NA	NA	NA	07/11/1218:01	07/11/1215:43	12PHG008S07	12PHG008	PHG008S	07/10/1208:55	07/10/12
SL-641-SA5C-SB-4.0-5.0	G048-10	8.46	1	NA	NA	NA	07/11/1218:03	07/11/1215:43	12PHG008S08	12PHG008	PHG008S	07/10/1210:10	07/10/12
SL-641-SA5C-SB-9.0-10.0	G048-11	8.47	1	NA	NA	NA	07/11/1218:04	07/11/1215:43	12PHG008S09	12PHG008	PHG008S	07/10/1210:20	07/10/12
SL-641-SA5C-SB-14.0-15.0	G048-12	8.51	1	NA	NA	NA	07/11/1218:06	07/11/1215:43	12PHG008S10	12PHG008	PHG008S	07/10/1210:25	07/10/12
SL-641-SA5C-SB-18.5-19.5	G048-13	8.05	1	NA	NA	NA	07/11/1218:07	07/11/1215:43	12PHG008S11	12PHG008	PHG008S	07/10/1210:30	07/10/12
SL-642-SA5C-SB-4.0-5.0	G048-15	8.08	1	NA	NA	NA	07/11/1218:08	07/11/1215:43	12PHG008S12	12PHG008	PHG008S	07/10/1212:40	07/10/12
SL-642-SA5C-SB-9.0-10.0	G048-16	8.24	1	NA	NA	NA	07/11/1218:09	07/11/1215:43	12PHG008S13	12PHG008	PHG008S	07/10/1212:45	07/10/12
SL-642-SA5C-SB-14.0-15.0	G048-17	8.42	1	NA	NA	NA	07/11/1218:10	07/11/1215:43	12PHG008S14	12PHG008	PHG008S	07/10/1212:50	07/10/12
SL-642-SA5C-SB-17.5-18.5	G048-18	8.45	1	NA	NA	NA	07/11/1218:11	07/11/1215:43	12PHG008S15	12PHG008	PHG008S	07/10/1212:55	07/10/12
SL-642-SA5C-SB-17.5-18.5DUP	G048-18D	8.40	1	NA	NA	NA	07/11/1218:12	07/11/1215:43	12PHG008S16	12PHG008	PHG008S	07/10/1212:55	07/10/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

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BATCH NO.: 12G048                      DATE RECEIVED: 07/10/12  
SAMPLE ID: SL-642-SA5C-SB-17.5-18.5DUP      DATE EXTRACTED: 07/11/12 15:43  
CONTROL NO.: G048-18D                      DATE ANALYZED: 07/11/12 18:12

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.45	8.40	0.05	+/-0.10

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/19/12 02:25
Sample ID    : FB-071112                        Date Analyzed: 07/19/12 02:25
Lab Samp ID  : G064-01                          Dilution Factor: 1
Lab File ID  : RGR272                           Matrix          : WATER
Ext Btch ID  : VOF3G12                          % Moisture     : NA
Calib. Ref.  : RFR007                           Instrument ID   : F3
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	9.99	10.00	99.9	80-120
4-BROMOFLUOROBENZENE	9.95	10.00	99.5	86-115
TOLUENE-D8	9.48	10.00	94.8	88-110
DIBROMOFLUOROMETHANE	10.1	10.00	101	86-118

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/18/12
Batch No.    : 12G064                          Date Extracted: 07/18/12 23:28
Sample ID    : MBLK1W                          Date Analyzed: 07/18/12 23:28
Lab Samp ID  : VOF3G12B                       Dilution Factor: 1
Lab File ID  : RGR267                         Matrix          : WATER
Ext Btch ID  : VOF3G12                       % Moisture     : NA
Calib. Ref.  : RFR007                         Instrument ID   : F3
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	9.35	10.00	93.5	80-120
4-BROMOFLUOROBENZENE	9.68	10.00	96.8	86-115
TOLUENE-D8	9.35	10.00	93.5	88-110
DIBROMOFLUOROMETHANE	9.83	10.00	98.3	86-118

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VOF3G12B VOF3G12L VOF3G12C  
LAB FILE ID: RGR267 RGR264 RGR265  
DATE EXTRACTED: 07/18/1223:28 07/18/1221:42 07/18/1222:17 DATE COLLECTED: NA  
DATE ANALYZED: 07/18/1223:28 07/18/1221:42 07/18/1222:17 DATE RECEIVED: 07/18/12  
PREP. BATCH: VOF3G12 VOF3G12 VOF3G12  
CALIB. REF: RFR007 RFR007 RFR007

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	10.0	11.7	117	10.0	10.6	106	10	70-130	30
1,1,1-Trichloroethane	ND	10.0	11.4	114	10.0	10.5	105	9	70-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	11.9	119	10.0	10.5	105	12	70-130	30
1,1,2-Trichloroethane	ND	10.0	11.9	119	10.0	10.8	108	10	70-130	30
1,1-Dichloroethane	ND	10.0	10.8	108	10.0	9.89	99	9	70-130	30
1,1-Dichloroethene	ND	10.0	9.72	97	10.0	9.07	91	7	60-130	30
1,1-Dichloropropene	ND	10.0	10.6	106	10.0	9.82	98	8	70-140	30
1,2,3-Trichlorobenzene	ND	10.0	8.76	88	10.0	8.13	81	7	60-130	30
1,2,3-Trichloropropane	ND	10.0	12.5	125	10.0	11.3	113	10	70-140	30
1,2,4-Trichlorobenzene	ND	10.0	9.61	96	10.0	8.67	87	10	60-140	30
1,2,4-Trimethylbenzene	ND	10.0	10.4	104	10.0	9.44	94	10	70-130	30
1,2-Dibromo-3-chloropropane	ND	10.0	13.2	132*	10.0	12.0	120	9	60-130	30
1,2-Dichlorobenzene	ND	10.0	11.1	111	10.0	10.4	104	6	70-130	30
1,2-Dichloroethane	ND	10.0	11.4	114	10.0	10.3	103	10	70-130	30
1,2-Dichloropropane	ND	10.0	11.0	110	10.0	9.89	99	11	70-130	30
1,2-Dibromoethane (EDB)	ND	10.0	12.2	122	10.0	11.1	111	10	70-140	30
1,3,5-Trimethylbenzene	ND	10.0	10.5	105	10.0	9.67	97	8	70-130	30
1,3-Dichlorobenzene	ND	10.0	10.7	107	10.0	10.2	102	5	70-130	30
1,3-Dichloropropane	ND	10.0	11.8	118	10.0	10.6	106	11	70-130	30
1,4-Dichlorobenzene	ND	10.0	11.2	112	10.0	10.5	105	6	70-130	30
2,2-Dichloropropane	ND	10.0	9.98	100	10.0	9.09	91	9	50-140	30
2-Chlorotoluene	ND	10.0	10.7	107	10.0	9.82	98	9	70-130	30
4-Chlorotoluene	ND	10.0	10.7	107	10.0	9.79	98	9	70-130	30
Benzene	ND	10.0	10.4	104	10.0	9.50	95	9	70-130	30
Bromobenzene	ND	10.0	12.0	120	10.0	10.9	109	9	70-130	30
Bromochloromethane	ND	10.0	11.0	110	10.0	9.86	99	11	70-130	30
Bromodichloromethane	ND	10.0	11.4	114	10.0	10.3	103	10	70-130	30
Bromoform	ND	10.0	13.1	131	10.0	11.9	119	9	60-140	30
Bromomethane	ND	10.0	10.4	104	10.0	10.2	102	3	50-140	30
Carbon Tetrachloride	ND	10.0	10.9	109	10.0	9.92	99	9	70-130	30
Chlorobenzene	ND	10.0	11.2	112	10.0	10.2	102	9	70-120	30
Chloroethane	ND	10.0	9.72	97	10.0	9.03	90	7	70-140	30
Chloroform	ND	10.0	11.0	110	10.0	9.86	99	11	70-130	30
Chloromethane	ND	10.0	8.75	87	10.0	8.46	85	3	60-130	30
cis-1,2-Dichloroethene	ND	10.0	10.9	109	10.0	9.98	100	9	70-130	30
cis-1,3-Dichloropropene	ND	10.0	10.9	109	10.0	9.94	99	9	70-130	30
Dibromochloromethane	ND	10.0	12.5	125	10.0	11.3	113	10	70-130	30
Dibromomethane	ND	10.0	12.0	120	10.0	10.8	108	10	70-140	30
Dichlorodifluoromethane	ND	10.0	9.82	98	10.0	9.13	91	7	50-140	30
Ethylbenzene	ND	10.0	10.8	108	10.0	10.0	100	8	70-130	30
Hexachlorobutadiene	ND	10.0	8.63	86	10.0	7.79	78	10	60-140	30
Isopropyl Benzene	ND	10.0	10.8	108	10.0	9.87	99	9	70-150	30
m,p-Xylene	ND	20.0	21.0	105	20.0	19.5	97	7	70-130	30
Methyl tert-butyl Ether (MTBE)	ND	10.0	13.6	136	10.0	12.2	122	11	70-140	30
Methylene Chloride	ND	10.0	10.4	104	10.0	9.46	95	9	70-130	30
n-Butylbenzene	ND	10.0	9.79	98	10.0	9.19	92	6	60-130	30
n-Propylbenzene	ND	10.0	10.4	104	10.0	9.62	96	8	70-140	30
o-Xylene	ND	10.0	10.6	106	10.0	9.97	100	7	70-130	30

p-Isopropyltoluene	ND	10.0	10.3	103	10.0	9.63	96	7	70-140	30
Sec-Butylbenzene	ND	10.0	9.94	99	10.0	9.32	93	6	70-130	30
Styrene	ND	10.0	11.1	111	10.0	10.3	103	7	70-130	30
Tert-Butylbenzene	ND	10.0	10.7	107	10.0	9.89	99	7	70-130	30
Tetrachloroethene	ND	10.0	10.9	109	10.0	10.1	101	8	70-130	30
Toluene	ND	10.0	10.7	107	10.0	9.87	99	8	70-130	30
Trans-1,2-Dichloroethene	ND	10.0	10.5	105	10.0	9.59	96	9	70-130	30
Trans-1,3-Dichloropropene	ND	10.0	11.2	112	10.0	10.2	102	10	70-140	30
Trichloroethene	ND	10.0	11.1	111	10.0	10.1	101	9	70-130	30
Trichlorofluoromethane	ND	10.0	10.5	105	10.0	9.81	98	7	70-140	30
Vinyl Chloride	ND	10.0	9.13	91	10.0	8.53	85	7	60-150	30
Acetone	ND	50.0	59.1	118	50.0	52.8	106	11	50-150	30
2-Butanone (MEK)	ND	50.0	64.3	129	50.0	57.7	115	11	60-140	30
2-Hexanone	ND	50.0	62.8	126	50.0	57.0	114	10	70-140	30
4-Methyl-2-Pentanone (MIBK)	ND	50.0	63.1	126	50.0	57.0	114	10	60-140	30
Freon113	ND	10.0	10.8	108	10.0	10.2	102	6	70-140	30
2-Chloroethyl Vinyl Ether	ND	10.0	9.83	98	10.0	9.11	91	8	30-160	30
2-Chloro-1,1,1-trifluoroethane	ND	10.0	10.1	101	10.0	9.84	98	3	50-150	30
Chlorotrifluoroethylene	ND	10.0	7.54	75	10.0	7.36	74	3	50-150	30
1-Chlorohexane	ND	10.0	10.4	104	10.0	9.79	98	6	50-150	30
Carbon Disulfide	ND	10.0	10.6	106	10.0	10.1	101	5	40-150	30
Ethyl tertiary butyl Ether (ETBE)	ND	10.0	13.8	138	10.0	12.5	125	10	40-160	30
Iodomethane	ND	10.0	11.2	112	10.0	10.4	104	8	40-150	30
Tertiary Amyl Methyl Ether (TAME)	ND	10.0	14.5	145	10.0	13.0	130	11	50-150	30
Tertiary butyl Alcohol	ND	50.0	56.1	112	50.0	52.4	105	7	20-160	30
Vinyl Acetate	ND	10.0	11.5	115	10.0	10.5	105	9	10-160	30
Acrolein	ND	50.0	44.3	89	50.0	39.2	78	12	30-160	30
Acrylonitrile	ND	50.0	57.7	115	50.0	52.4	105	10	50-150	30
Diisopropyl Ether	ND	10.0	11.4	114	10.0	10.3	103	11	50-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	10.0	10.3	103	10.0	10.1	101	80-120
4-Bromofluorobenzene	10.0	9.64	96	10.0	9.47	95	86-115
Toluene-d8	10.0	9.05	90	10.0	8.89	89	88-110
Dibromofluoromethane	10.0	10.2	102	10.0	10.0	100	86-118

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                       Date Received: 07/11/12
Batch No.    : 12G064                             Date Extracted: 07/17/12 16:09
Sample ID    : FB-071112                          Date Analyzed: 07/17/12 16:09
Lab Samp ID  : G064-01                             Dilution Factor: 1
Lab File ID  : RGY069                              Matrix          : WATER
Ext Btch ID  : VOF5G07                             % Moisture     : NA
Calib. Ref.  : RGY006                              Instrument ID   : TOF5
=====
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
1,4-DIOXANE	1.9J	2.0	1.0
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
1,2-DICHLOROETHANE-D4	5.24	5.000	105 50-150

METHOD 5030B/8260B SIM  
VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 07/17/12
Batch No.    : 12G064                             Date Extracted: 07/17/12 12:27
Sample ID    : MBLK1W                             Date Analyzed: 07/17/12 12:27
Lab Samp ID  : VOF5G07B                           Dilution Factor: 1
Lab File ID  : RGY068                             Matrix          : WATER
Ext Btch ID  : VOF5G07                            % Moisture      : NA
Calib. Ref.  : RGY006                             Instrument ID   : TOF5
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,4-DIOXANE	ND	2.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	5.79	5.000	116	50-150

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: 5030B/8260B SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VOF5G07B VOF5G07L VOF5G07C  
LAB FILE ID: RGY068 RGY065 RGY066  
DATE EXTRACTED: 07/17/1212:27 07/17/1211:10 07/17/1211:35 DATE COLLECTED: NA  
DATE ANALYZED: 07/17/1212:27 07/17/1211:10 07/17/1211:35 DATE RECEIVED: 07/17/12  
PREP. BATCH: VOF5G07 VOF5G07 VOF5G07  
CALIB. REF: RGY006 RGY006 RGY006

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,4-Dioxane	ND	50.0	50.3	101	50.0	51.1	102	2	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	5.00	5.82	116	5.00	5.94	119	50-150

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/16/12 14:00
Sample ID    : FB-071112                        Date Analyzed: 07/18/12 22:16
Lab Samp ID  : G064-01                          Dilution Factor: 1.06
Lab File ID  : RGJ170                           Matrix          : WATER
Ext Btch ID  : SVG022W                          % Moisture     : NA
Calib. Ref.  : RGJ007                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.21	0.11
ACENAPHTHYLENE	ND	0.21	0.11
ANTHRACENE	ND	0.21	0.11
BENZO (A) ANTHRACENE	ND	0.21	0.11
BENZO (A) PYRENE	ND	0.21	0.11
BENZO (B) FLUORANTHENE	ND	0.21	0.11
BENZO (K) FLUORANTHENE	ND	0.21	0.11
BENZO (G, H, I) PERYLENE	ND	0.21	0.11
CHRYSENE	ND	0.21	0.11
DIBENZO (A, H) ANTHRACENE	ND	0.21	0.11
FLUORANTHENE	ND	0.21	0.11
FLUORENE	ND	0.21	0.11
INDENO (1, 2, 3-CD) PYRENE	ND	0.21	0.11
NAPHTHALENE	ND	0.21	0.11
PHENANTHRENE	ND	0.21	0.11
2-METHYLNAPHTHALENE	ND	0.21	0.11
1-METHYLNAPHTHALENE	ND	0.21	0.11
N-NITROSODIMETHYLAMINE	ND	1.1	0.11
PYRENE	ND	0.21	0.11
AZOBENZENE	ND	1.1	0.11
BENZO (E) PYRENE	ND	0.21	0.11
BIPHENYL	ND	2.1	0.53

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	15.9	21.20	75.2	40-130
2-FLUOROBIPHENYL	14.1	21.20	66.3	45-130
TERPHENYL-D14	19.8	21.20	93.5	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/16/12
Batch No.    : 12G064                           Date Extracted: 07/16/12 14:00
Sample ID    : MBLK1W                           Date Analyzed: 07/18/12 18:40
Lab Samp ID  : SVG022WB                         Dilution Factor: 1
Lab File ID  : RGJ159                           Matrix          : WATER
Ext Btch ID  : SVG022W                         % Moisture     : NA
Calib. Ref.  : RGJ007                           Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	12.8	20.00	63.8	40-130
2-FLUOROBIPHENYL	11.0	20.00	55.1	45-130
TERPHENYL-D14	17.7	20.00	88.7	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 3520C/8270C SIM

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVG022WB SVG022WL SVG022WC  
LAB FILE ID: RGJ159 RGJ160 RGJ161  
DATE EXTRACTED: 07/16/1214:00 07/16/1214:00 07/16/1214:00 DATE COLLECTED: NA  
DATE ANALYZED: 07/18/1218:40 07/18/1218:59 07/18/1219:19 DATE RECEIVED: 07/16/12  
PREP. BATCH: SVG022W SVG022W SVG022W  
CALIB. REF: RGJ007 RGJ007 RGJ007

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	27.5	69	40.0	25.8	64	6	20-130	30
Acenaphthylene	ND	40.0	29.8	75	40.0	28.0	70	6	30-140	30
Anthracene	ND	40.0	29.3	73	40.0	29.0	72	1	40-130	30
Benzo (a) anthracene	ND	40.0	32.6	82	40.0	32.5	81	1	50-130	30
Benzo (a) pyrene	ND	40.0	32.0	80	40.0	31.7	79	1	50-130	30
Benzo (b) fluoranthene	ND	40.0	33.2	83	40.0	34.0	85	2	50-130	30
Benzo (k) fluoranthene	ND	40.0	31.9	80	40.0	30.7	77	4	50-130	30
Benzo (g, h, i) perylene	ND	40.0	33.1	83	40.0	32.9	82	1	30-150	30
Chrysene	ND	40.0	32.3	81	40.0	32.2	81	0	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	32.3	81	40.0	32.1	80	1	40-140	30
Fluoranthene	ND	40.0	31.0	77	40.0	31.5	79	2	40-130	30
Fluorene	ND	40.0	30.2	75	40.0	28.5	71	6	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	33.7	84	40.0	33.4	84	1	40-130	30
Naphthalene	ND	40.0	26.1	65	40.0	25.6	64	2	20-130	30
Phenanthrene	ND	40.0	30.2	75	40.0	29.9	75	1	40-130	30
2-Methylnaphthalene	ND	40.0	27.1	68	40.0	26.3	66	3	30-150	30
1-Methylnaphthalene	ND	40.0	26.8	67	40.0	25.9	65	3	40-150	30
N-Nitrosodimethylamine	ND	40.0	26.3	66	40.0	26.5	66	1	20-150	30
Pyrene	ND	40.0	30.0	75	40.0	30.6	76	2	40-130	30
Azobenzene	ND	40.0	36.3	91	40.0	35.3	88	3	30-150	30
Benzo (e) pyrene	ND	40.0	40.4	101	40.0	40.6	101	1	30-150	30
Biphenyl	ND	40.0	29.5	74	40.0	28.8	72	2	30-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	14.2	71	20.0	14.5	73	40-130
2-Fluorobiphenyl	20.0	12.8	64	20.0	12.2	61	45-130
Terphenyl-d14	20.0	16.2	81	20.0	16.3	81	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/20/12 11:39
Sample ID:   SL-586-SA5C-SB-4.0-5.0           Date Analyzed: 07/20/12 19:40
Lab Samp ID: G064-03                           Dilution Factor: 1
Lab File ID: RGF091                             Matrix          : SOIL
Ext Btch ID: SVG031S                            % Moisture     : 7.5
Calib. Ref.: RGF015                             Instrument ID   : T-OF0
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	84.4	360.3	23.4*	40-130
2-FLUOROBIPHENYL	111	360.3	30.7*	45-130
TERPHENYL-D14	288	360.3	80.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/20/12 11:39
Sample ID:   SL-586-SA5C-SB-9.0-10.0          Date Analyzed: 07/20/12 20:05
Lab Samp ID: G064-05                           Dilution Factor: 1
Lab File ID: RGF092                            Matrix          : SOIL
Ext Btch ID: SVG031S                          % Moisture     : 11.7
Calib. Ref.: RGF015                            Instrument ID   : T-OF0
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	180	377.5	47.7	40-130
2-FLUOROBIPHENYL	197	377.5	52.3	45-130
TERPHENYL-D14	313	377.5	82.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/20/12 11:39
Sample ID    : SL-589-SA5C-SB-4.0-5.0          Date Analyzed: 07/23/12 10:16
Lab Samp ID  : G064-07                          Dilution Factor: 3
Lab File ID  : RGF109                            Matrix          : SOIL
Ext Btch ID  : SVG031S                          % Moisture     : 10.1
Calib. Ref.  : RGF015                            Instrument ID   : T-OF0
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	33	8.3
ACENAPHTHYLENE	ND	33	8.3
ANTHRACENE	ND	33	8.3
BENZO (A) ANTHRACENE	ND	33	8.3
BENZO (A) PYRENE	ND	33	8.3
BENZO (B) FLUORANTHENE	ND	33	8.3
BENZO (K) FLUORANTHENE	ND	33	8.3
BENZO (G, H, I) PERYLENE	ND	33	8.3
CHRYSENE	ND	33	8.3
DIBENZO (A, H) ANTHRACENE	ND	33	8.3
FLUORANTHENE	ND	33	8.3
FLUORENE	ND	33	8.3
INDENO (1, 2, 3-CD) PYRENE	ND	33	8.3
NAPHTHALENE	ND	33	8.3
PHENANTHRENE	ND	33	8.3
2-METHYLNAPHTHALENE	ND	33	8.3
1-METHYLNAPHTHALENE	ND	33	8.3
N-NITROSODIMETHYLAMINE	ND	33	8.3
PYRENE	ND	33	8.3
AZOBENZENE	ND	17	8.3
BENZO (E) PYRENE	ND	17	8.3
BIPHENYL	ND	17	8.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	170	370.7	46.0	40-130
2-FLUOROBIPHENYL	219	370.7	59.0	45-130
TERPHENYL-D14	312	370.7	84.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                       Date Received: 07/11/12
Batch No.    : 12G064                             Date Extracted: 07/20/12 11:39
Sample ID:   SL-591-SA5C-SB-4.0-5.0              Date Analyzed: 07/23/12 10:36
Lab Samp ID: G064-08                             Dilution Factor: 3
Lab File ID: RGF110                               Matrix          : SOIL
Ext Btch ID: SVG031S                             % Moisture     : 10.7
Calib. Ref.: RGF015                              Instrument ID  : T-OF0
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	34	8.4
ACENAPHTHYLENE	ND	34	8.4
ANTHRACENE	ND	34	8.4
BENZO (A) ANTHRACENE	10J	34	8.4
BENZO (A) PYRENE	ND	34	8.4
BENZO (B) FLUORANTHENE	ND	34	8.4
BENZO (K) FLUORANTHENE	ND	34	8.4
BENZO (G, H, I) PERYLENE	ND	34	8.4
CHRYSENE	ND	34	8.4
DIBENZO (A, H) ANTHRACENE	ND	34	8.4
FLUORANTHENE	ND	34	8.4
FLUORENE	ND	34	8.4
INDENO (1, 2, 3-CD) PYRENE	ND	34	8.4
NAPHTHALENE	ND	34	8.4
PHENANTHRENE	ND	34	8.4
2-METHYLNAPHTHALENE	ND	34	8.4
1-METHYLNAPHTHALENE	ND	34	8.4
N-NITROSODIMETHYLAMINE	ND	34	8.4
PYRENE	ND	34	8.4
AZOBENZENE	ND	17	8.4
BENZO (E) PYRENE	9.6J	17	8.4
BIPHENYL	ND	17	8.4

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	182	373.2	48.7	40-130
2-FLUOROBIPHENYL	227	373.2	60.9	45-130
TERPHENYL-D14	335	373.2	89.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/20/12 11:39
Sample ID:   SL-607-SA5C-SB-0.0-0.5            Date Analyzed: 07/20/12 23:02
Lab Samp ID: G064-10                            Dilution Factor: 1
Lab File ID: RGF099                             Matrix          : SOIL
Ext Btch ID: SVG031S                            % Moisture     : 11.1
Calib. Ref.: RGF015                             Instrument ID   : T-OF0
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	123	374.9	32.9*	40-130
2-FLUOROBIPHENYL	117	374.9	31.1*	45-130
TERPHENYL-D14	314	374.9	83.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/20/12 11:39
Sample ID:   SL-607-SA5C-SB-4.0-5.0           Date Analyzed: 07/20/12 23:28
Lab Samp ID: G064-11                           Dilution Factor: 1
Lab File ID: RGF100                            Matrix          : SOIL
Ext Btch ID: SVG031S                          % Moisture     : 13.0
Calib. Ref.: RGF015                            Instrument ID   : T-OF0
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	3.8J	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	143	383.1	37.3*	40-130
2-FLUOROBIPHENYL	151	383.1	39.3*	45-130
TERPHENYL-D14	347	383.1	90.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/20/12 11:39
Sample ID:   SL-607-SA5C-SB-9.0-10.0          Date Analyzed: 07/20/12 20:30
Lab Samp ID: G064-13                           Dilution Factor: 1
Lab File ID: RGF093                             Matrix          : SOIL
Ext Btch ID: SVG031S                           % Moisture     : 11.3
Calib. Ref.: RGF015                             Instrument ID  : T-OF0
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	111	375.8	29.4*	40-130
2-FLUOROBIPHENYL	119	375.8	31.7*	45-130
TERPHENYL-D14	351	375.8	93.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/20/12
Batch No.    : 12G064                           Date Extracted: 07/20/12 11:39
Sample ID    : MBLK1S                            Date Analyzed: 07/20/12 17:35
Lab Samp ID  : SVG031SB                         Dilution Factor: 1
Lab File ID  : RGF086                           Matrix          : SOIL
Ext Btch ID  : SVG031S                          % Moisture     : NA
Calib. Ref.  : RGF015                           Instrument ID   : T-OF0
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	200	333.3	60.1	40-130
2-FLUOROBIPHENYL	231	333.3	69.2	45-130
TERPHENYL-D14	328	333.3	98.5	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVG031SB SVG031SL SVG031SC  
LAB FILE ID: RGF086 RGF087 RGF088  
DATE EXTRACTED: 07/20/1211:39 07/20/1211:39 07/20/1211:39 DATE COLLECTED: NA  
DATE ANALYZED: 07/20/1217:35 07/20/1218:00 07/20/1218:25 DATE RECEIVED: 07/20/12  
PREP. BATCH: SVG031S SVG031S SVG031S  
CALIB. REF: RGF015 RGF015 RGF015

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	295	88	333	295	88	0	10-130	50
Acenaphthylene	ND	333	296	89	333	294	88	0	20-130	50
Anthracene	ND	333	281	84	333	281	84	0	20-130	50
Benzo (a) anthracene	ND	333	299	90	333	292	88	2	30-130	50
Benzo (a) pyrene	ND	333	288	86	333	276	83	4	30-130	50
Benzo (b) fluoranthene	ND	333	338	102	333	348	104	3	40-130	50
Benzo (k) fluoranthene	ND	333	350	105	333	339	102	3	30-140	50
Benzo (g, h, i) perylene	ND	333	317	95	333	309	93	3	30-140	50
Chrysene	ND	333	309	93	333	306	92	1	30-140	50
Dibenzo (a, h) anthracene	ND	333	323	97	333	322	97	0	40-140	50
Fluoranthene	ND	333	314	94	333	307	92	2	30-130	50
Fluorene	ND	333	283	85	333	287	86	1	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	327	98	333	319	96	2	20-160	50
Naphthalene	ND	333	242	73	333	235	70	3	10-130	50
Phenanthrene	ND	333	297	89	333	289	87	3	20-130	50
2-Methylnaphthalene	ND	333	288	86	333	285	85	1	30-150	50
1-Methylnaphthalene	ND	333	288	86	333	282	85	2	30-150	50
N-Nitrosodimethylamine	ND	333	231	69	333	224	67	3	30-150	50
Pyrene	ND	333	299	90	333	297	89	1	20-150	50
Azobenzene	ND	333	280	84	333	270	81	4	30-150	50
Benzo (e) pyrene	ND	333	414	124	333	384	115	8	30-150	50
Biphenyl	ND	333	336	101	333	321	96	4	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	207	62	333	217	65	40-130
2-Fluorobiphenyl	333	221	66	333	237	71	45-130
Terphenyl-d14	333	286	86	333	302	91	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: 11.3  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-607-SA5C-SB-9.0-10.0  
LAB SAMP ID: G064-13 G064-13M G064-13S  
LAB FILE ID: RGF093 RGF089 RGF090  
DATE EXTRACTED: 07/20/1211:39 07/20/1211:39 07/20/1211:39 DATE COLLECTED: 07/11/12  
DATE ANALYZED: 07/20/1220:30 07/20/1218:50 07/20/1219:15 DATE RECEIVED: 07/11/12  
PREP. BATCH: SVG031S SVG031S SVG031S  
CALIB. REF: RGF015 RGF015 RGF015

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	376	178	47	376	164	44	8	10-130	50
Acenaphthylene	ND	376	178	47	376	161	43	10	20-130	50
Anthracene	ND	376	250	67	376	252	67	1	20-130	50
Benzo (a) anthracene	ND	376	296	79	376	305	81	3	30-130	50
Benzo (a) pyrene	ND	376	273	73	376	275	73	1	30-130	50
Benzo (b) fluoranthene	ND	376	343	91	376	352	94	3	30-130	50
Benzo (k) fluoranthene	ND	376	342	91	376	344	91	0	30-130	50
Benzo (g, h, i) perylene	ND	376	479	128	376	296	79	47	30-140	50
Chrysene	ND	376	294	78	376	307	82	4	20-130	50
Dibenzo (a, h) anthracene	ND	376	316	84	376	315	84	0	30-130	50
Fluoranthene	ND	376	308	82	376	315	84	3	30-150	50
Fluorene	ND	376	213	57	376	196	52	8	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	376	311	83	376	310	83	0	20-160	50
Naphthalene	ND	376	96.4	26	376	88.4	24	9	10-130	50
Phenanthrene	ND	376	261	69	376	265	70	2	20-130	50
2-Methylnaphthalene	ND	376	130	35	376	126	33	3	30-150	50
1-Methylnaphthalene	ND	376	131	35	376	127	34	3	30-150	50
N-Nitrosodimethylamine	ND	376	101	27	376	101	27	0	20-150	50
Pyrene	ND	376	296	79	376	304	81	3	10-160	50
Azobenzene	ND	376	207	55	376	203	54	2	30-150	50
Benzo (e) pyrene	ND	376	340	90	376	356	95	5	30-150	50
Biphenyl	ND	376	128	34	376	128	34	0	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	376	89.9	24*	376	86.0	23*	40-130
2-Fluorobiphenyl	376	108	29*	376	97.6	26*	45-130
Terphenyl-d14	376	292	78	376	312	83	45-135

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/13/12 01:44
Sample ID    : FB-071112                        Date Analyzed: 07/13/12 01:44
Lab Samp ID  : G064-01                          Dilution Factor: 1
Lab File ID  : EG11054A                         Matrix          : WATER
Ext Btch ID  : VG39G08                          % Moisture      : NA
Calib. Ref.  : EG11048A                         Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	26J	50	10
SURROGATE PARAMETERS			
4-BROMOFLUOROBENZENE	36.4	40.00	60-140

RL : Reporting Limit

Discrete Peak(s) were reported

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                       Date Received: 07/11/12
Batch No.    : 12G064                             Date Extracted: 07/13/12 02:28
Sample ID:   TB-071112                            Date Analyzed: 07/13/12 02:28
Lab Samp ID: G064-02                               Dilution Factor: 1
Lab File ID: EG11055A                             Matrix          : WATER
Ext Btch ID: VG39G08                               % Moisture     : NA
Calib. Ref.: EG11048A                             Instrument ID  : GCT039
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	50J	50	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	36.8	40.00	92.1	60-140

RL : Reporting Limit

Discrete Peak(s) were reported

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 07/12/12
Batch No.  : 12G064                             Date Extracted: 07/12/12 17:06
Sample ID  : MBLK1W                             Date Analyzed: 07/12/12 17:06
Lab Samp ID: VG39G08B                           Dilution Factor: 1
Lab File ID: EG11042A                           Matrix          : WATER
Ext Btch ID: VG39G08                             % Moisture     : NA
Calib. Ref.: EG11036A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	34.4	40.00	85.9 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39G08B VG39G08L VG39G08C  
LAB FILE ID: EG11042A EG11043A EG11044A  
DATE EXTRACTED: 07/12/1217:06 07/12/1217:49 07/12/1218:32 DATE COLLECTED: NA  
DATE ANALYZED: 07/12/1217:06 07/12/1217:49 07/12/1218:32 DATE RECEIVED: 07/12/12  
PREP. BATCH: VG39G08 VG39G08 VG39G08  
CALIB. REF: EG11036A EG11036A EG11036A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	415	83	500	446	89	7	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	44.6	112	40.0	45.0	113	60-130

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client      : CDM                               Date Collected: 07/11/12
Project     : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.   : 12G064                           Date Extracted: 07/13/12 06:04
Sample ID   : SL-586-SA5C-SB-4.5              Date Analyzed: 07/13/12 06:04
Lab Samp ID : G064-04                          Dilution Factor: 1.33
Lab File ID : EG11060A                        Matrix          : SOIL
Ext Btch ID : GMG007S                         % Moisture     : 9.1
Calib. Ref. : EG11059A                       Instrument ID   : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.5	0.73
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.61	2.926	89.3 70-140

RL : Reporting Limit

METHANOL EXTRACTION: 07/12/12 14:06

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/13/12 06:47
Sample ID:   SL-586-SA5C-SB-9.5                 Date Analyzed: 07/13/12 06:47
Lab Samp ID: G064-06                             Dilution Factor: 0.87
Lab File ID: EG11061A                            Matrix          : SOIL
Ext Btch ID: GMG007S                             % Moisture     : 11.2
Calib. Ref.: EG11059A                            Instrument ID  : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.98	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.68	1.959	86.0 70-140

RL : Reporting Limit

METHANOL EXTRACTION: 07/12/12 14:06

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/13/12 07:30
Sample ID:   SL-607-SA5C-SB-4.5                 Date Analyzed: 07/13/12 07:30
Lab Samp ID: G064-12                             Dilution Factor: 1.05
Lab File ID: EG11062A                           Matrix          : SOIL
Ext Btch ID: GMG007S                             % Moisture     : 10.3
Calib. Ref.: EG11059A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.59

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	2.03	2.341	86.6	70-140

RL : Reporting Limit

METHANOL EXTRACTION: 07/12/12 14:06

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/13/12 08:13
Sample ID:   SL-607-SA5C-SB-9.5                Date Analyzed: 07/13/12 08:13
Lab Samp ID: G064-14                            Dilution Factor: 1.11
Lab File ID: EG11063A                           Matrix          : SOIL
Ext Btch ID: GMG007S                             % Moisture     : 8.2
Calib. Ref.: EG11059A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.60
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.93	2.418	79.9 70-140

RL : Reporting Limit

METHANOL EXTRACTION: 07/12/12 14:06

METHOD 5035/8015B GRO  
PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                       Date Received: 07/13/12
Batch No.   : 12G064                             Date Extracted: 07/13/12 03:11
Sample ID   : MBLK1S                             Date Analyzed: 07/13/12 03:11
Lab Samp ID: GMG007SB                           Dilution Factor: 1
Lab File ID: EG11056A                           Matrix          : SOIL
Ext Btch ID: GMG007S                             % Moisture     : NA
Calib. Ref.: EG11048A                           Instrument ID   : GCT039
=====
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.92	2.000	95.9 60-130

RL : Reporting Limit

METHANOL EXTRACTION: 07/12/12 14:06

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMG007SB GMG007SL GMG007SC  
LAB FILE ID: EG11056A EG11057A EG11058A  
DATE EXTRACTED: 07/13/1203:11 07/13/1203:54 07/13/1204:38 DATE COLLECTED: NA  
DATE ANALYZED: 07/13/1203:11 07/13/1203:54 07/13/1204:38 DATE RECEIVED: 07/13/12  
PREP. BATCH: GMG007S GMG007S GMG007S  
CALIB. REF: EG11048A EG11048A EG11048A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	22.5	90	25.0	21.1	84	6	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.35	117	2.00	2.20	110	60-130

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                       Date Received: 07/11/12
Batch No.    : 12G064                             Date Extracted: 07/12/12 09:16
Sample ID    : FB-071112                          Date Analyzed: 07/12/12 09:16
Lab Samp ID  : G064-01                             Dilution Factor: 1
Lab File ID  : BG12007A                           Matrix          : WATER
Ext Btch ID  : MEG003W                             % Moisture     : NA
Calib. Ref.  : BG12002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 07/12/12
Batch No.    : 12G064                             Date Extracted: 07/12/12 08:07
Sample ID    : MBLK1W                             Date Analyzed: 07/12/12 08:07
Lab Samp ID  : MEG003WB                           Dilution Factor: 1
Lab File ID  : BG12003A                           Matrix          : WATER
Ext Btch ID  : MEG003W                             % Moisture      : NA
Calib. Ref.  : BG12002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 8015B

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: MEG003WB MEG003WL MEG003WY  
LAB FILE ID: BG12003A BG12004A BG12006A  
DATE EXTRACTED: 07/12/1208:07 07/12/1208:25 07/12/1209:01 DATE COLLECTED: NA  
DATE ANALYZED: 07/12/1208:07 07/12/1208:25 07/12/1209:01 DATE RECEIVED: 07/12/12  
PREP. BATCH: MEG003W MEG003W MEG003W  
CALIB. REF: BG12002A BG12002A BG12002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	8630	86	10000	8720	87	1	50-150	30
Isopropanol	ND	10000	8710	87	10000	9270	93	6	50-150	30
Methanol	ND	10000	9560	96	10000	10200	102	6	50-150	30

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 07/11/12
Project     : SSFL PHASE 3                       Date Received: 07/11/12
Batch No.   : 12G064                             Date Extracted: 07/12/12 13:24
Sample ID   : FB-071112                          Date Analyzed: 07/12/12 13:24
Lab Samp ID: G064-01                             Dilution Factor: 1
Lab File ID: TG12007A                            Matrix          : WATER
Ext Btch ID: PEG004W                             % Moisture     : NA
Calib. Ref.: TG12002A                            Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 07/12/12
Batch No.   : 12G064                           Date Extracted: 07/12/12 13:08
Sample ID   : MBLK1W                           Date Analyzed: 07/12/12 13:08
Lab Samp ID: PEG004WQ                          Dilution Factor: 1
Lab File ID: TG12006A                          Matrix          : WATER
Ext Btch ID: PEG004W                            % Moisture     : NA
Calib. Ref.: TG12002A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 8015M

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PEG004WQ PEG004WL PEG004WY  
LAB FILE ID: TG12006A TG12003A TG12008A  
DATE EXTRACTED: 07/12/1213:08 07/12/1208:39 07/12/1213:39 DATE COLLECTED: NA  
DATE ANALYZED: 07/12/1213:08 07/12/1208:39 07/12/1213:39 DATE RECEIVED: 07/12/12  
PREP. BATCH: PEG004W PEG004W PEG004W  
CALIB. REF: TG12002A TG12002A TG12002A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	52.2	104	50.0	51.9	104	1	50-150	30
Ethylene Glycol	ND	50.0	54.5	109	50.0	48.2	96	12	50-150	30
Propylene Glycol	ND	25.0	20.1	80	25.0	27.3	109	30	50-150	30

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/12/12 12:45
Sample ID    : FB-071112                        Date Analyzed: 07/13/12 21:59
Lab Samp ID  : G064-01                          Dilution Factor: 1.08
Lab File ID  : LG13031A                         Matrix          : WATER
Ext Btch ID  : DSG019W                          % Moisture      : NA
Calib. Ref.  : LG13020A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.11	0.054
EFH(C12-C14)	ND	0.11	0.054
EFH(C15-C20)	ND	0.11	0.054
EFH(C21-C30)	ND	0.11	0.054
EFH(C30-C40)	ND	0.11	0.054
TOTAL EFH(C8-C40)	ND	0.11	0.054

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.972	1.080	90.0	40-130
HEXACOSANE	0.314	0.2700	116	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 07/12/12
Batch No.    : 12G064                             Date Extracted: 07/12/12 12:45
Sample ID    : MBLK1W                             Date Analyzed: 07/13/12 19:44
Lab Samp ID  : DSG019WB                           Dilution Factor: 1
Lab File ID  : LG13023A                           Matrix          : WATER
Ext Btch ID  : DSG019W                             % Moisture     : NA
Calib. Ref.  : LG13020A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.815	1.000	81.5	40-130
HEXACOSANE	0.266	0.2500	107	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSG019WB DSG019WL DSG019WC  
LAB FILE ID: LG13023A LG13024A LG13025A  
DATE EXTRACTED: 07/12/1212:45 07/12/1212:45 07/12/1212:45 DATE COLLECTED: NA  
DATE ANALYZED: 07/13/1219:44 07/13/1220:01 07/13/1220:18 DATE RECEIVED: 07/12/12  
PREP. BATCH: DSG019W DSG019W DSG019W  
CALIB. REF: LG13020A LG13020A LG13020A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.33	87	5.00	4.21	84	3	20-150	30

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SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.839	84	1.00	0.894	89	40-130
Hexacosane	0.250	0.267	107	0.250	0.278	111	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/13/12 15:30
Sample ID    : SL-586-SA5C-SB-4.0-5.0          Date Analyzed: 07/16/12 15:17
Lab Samp ID  : G064-03                           Dilution Factor: 1
Lab File ID  : LG16017A                         Matrix          : SOIL
Ext Btch ID  : DSG023S                          % Moisture     : 7.5
Calib. Ref.  : LG16015A                         Instrument ID   : GCT105
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	ND	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	ND	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.5	108.1	68.0	50-150
HEXACOSANE	26.9	27.03	99.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/13/12 15:30
Sample ID:   SL-586-SA5C-SB-9.0-10.0           Date Analyzed: 07/16/12 15:33
Lab Samp ID: G064-05                             Dilution Factor: 1
Lab File ID: LG16018A                           Matrix          : SOIL
Ext Btch ID: DSG023S                             % Moisture     : 11.7
Calib. Ref.: LG16015A                           Instrument ID  : GCT105
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```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.6	113.3	65.9	50-150
HEXACOSANE	29.1	28.31	103	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/13/12 15:30
Sample ID    : SL-607-SA5C-SB-0.0-0.5          Date Analyzed: 07/16/12 12:46
Lab Samp ID  : G064-10                           Dilution Factor: 1
Lab File ID  : LG16008A                         Matrix          : SOIL
Ext Btch ID  : DSG023S                          % Moisture     : 11.1
Calib. Ref.  : LG16003A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	5.9J	11	5.6
TOTAL EFH(C8-C40)	5.9	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.1	112.5	61.4	50-150
HEXACOSANE	27.5	28.12	97.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/13/12 15:30
Sample ID    : SL-607-SA5C-SB-4.0-5.0          Date Analyzed: 07/16/12 13:03
Lab Samp ID  : G064-11                           Dilution Factor: 1
Lab File ID  : LG16009A                          Matrix          : SOIL
Ext Btch ID  : DSG023S                            % Moisture     : 13.0
Calib. Ref.  : LG16003A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	5.5J	5.7	2.9
EFH(C30-C40)	12	11	5.7
TOTAL EFH(C8-C40)	18	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	68.9	114.9	60.0	50-150
HEXACOSANE	28.4	28.74	98.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/13/12 15:30
Sample ID    : SL-607-SA5C-SB-9.0-10.0         Date Analyzed: 07/16/12 15:50
Lab Samp ID  : G064-13                           Dilution Factor: 1
Lab File ID  : LG16019A                          Matrix          : SOIL
Ext Btch ID  : DSG023S                           % Moisture     : 11.3
Calib. Ref. : LG16015A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	ND	5.6	2.8
EFH(C30-C40)	ND	11	5.6
TOTAL EFH(C8-C40)	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	56.5	112.7	50.1	50-150
HEXACOSANE	28.2	28.18	100	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 07/13/12
Batch No.    : 12G064                             Date Extracted: 07/13/12 15:30
Sample ID    : MBLK1S                             Date Analyzed: 07/16/12 11:56
Lab Samp ID  : DSG023SB                           Dilution Factor: 1
Lab File ID  : LG16005A                           Matrix          : SOIL
Ext Btch ID  : DSG023S                             % Moisture      : NA
Calib. Ref.  : LG16003A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.1	100.0	74.1	50-150
HEXACOSANE	25.2	25.00	101	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSG023SB DSG023SL DSG023SC  
LAB FILE ID: LG16005A LG16006A LG16007A  
DATE EXTRACTED: 07/13/1215:30 07/13/1215:30 07/13/1215:30 DATE COLLECTED: NA  
DATE ANALYZED: 07/16/1211:56 07/16/1212:12 07/16/1212:29 DATE RECEIVED: 07/13/12  
PREP. BATCH: DSG023S DSG023S DSG023S  
CALIB. REF: LG16003A LG16003A LG16003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	403	81	500	416	83	3	50-140	50

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SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	75.2	75	100	79.1	79	50-150
Hexacosane	25.0	24.5	98	25.0	26.3	105	50-150

METHOD 3520C/8081A  
PESTICIDES

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/12/12 14:00
Sample ID    : FB-071112                       Date Analyzed: 07/14/12 01:02
Lab Samp ID  : G064-01                         Dilution Factor: 1.02
Lab File ID  : RG13041A                       Matrix          : WATER
Ext Btch ID  : CPG024W                       % Moisture     : NA
Calib. Ref.  : RG13032A                       Instrument ID   : F9
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
ALPHA-BHC	0.081J (ND)	0.10	0.010	0.010
GAMMA-BHC (LINDANE)	(ND) ND	0.10	0.010	0.010
BETA-BHC	(ND) ND	0.10	0.010	0.010
HEPTACHLOR	(ND) ND	0.10	0.010	0.010
DELTA-BHC	(ND) ND	0.10	0.010	0.010
ALDRIN	(ND) ND	0.10	0.010	0.010
HEPTACHLOR EPOXIDE	(ND) ND	0.10	0.010	0.010
ENDOSULFAN I	(ND) ND	0.10	0.010	0.010
4,4'-DDE	0.022J (ND)	0.10	0.010	0.010
DIELDRIN	0.066J (ND)	0.10	0.010	0.010
ENDRIN	(ND) ND	0.10	0.010	0.010
4,4'-DDD	(ND) ND	0.10	0.010	0.010
ENDOSULFAN II	0.023J (ND)	0.10	0.010	0.010
4,4'-DDT	(ND) ND	0.10	0.010	0.010
ENDRIN ALDEHYDE	(ND) ND	0.10	0.010	0.010
ENDOSULFAN SULFATE	(ND) ND	0.10	0.010	0.010
ENDRIN KETONE	(ND) ND	0.10	0.010	0.010
METHOXYCHLOR	(ND) ND	1.0	0.10	0.10
MIREX	(ND) ND	0.10	0.010	0.010
TOXAPHENE	(ND) ND	2.0	0.51	0.51
CHLORDANE (TECHNICAL)	(ND) ND	1.0	0.25	0.25
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	(0.3359)   0.2958	0.4080	(82.3)   72.5	60-140
DECACHLOROBIPHENYL	0.3345   (0.3733)	0.4080	82.0   (91.5)	20-120

RL : Reporting limit  
 Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )

METHOD 3520C/8081A  
PESTICIDES

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/12/12
Batch No.    : 12G064                           Date Extracted: 07/12/12 14:00
Sample ID    : MBLK1W                            Date Analyzed: 07/13/12 23:15
Lab Samp ID  : CPG024WB                         Dilution Factor: 1
Lab File ID  : RG13036A                        Matrix          : WATER
Ext Btch ID  : CPG024W                          % Moisture     : NA
Calib. Ref.  : RG13032A                        Instrument ID   : F9
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ALPHA-BHC	(ND)   ND	0.10	0.010   0.010
GAMMA-BHC (LINDANE)	(ND)   ND	0.10	0.010   0.010
BETA-BHC	(ND)   ND	0.10	0.010   0.010
HEPTACHLOR	(ND)   ND	0.10	0.010   0.010
DELTA-BHC	(ND)   ND	0.10	0.010   0.010
ALDRIN	(ND)   ND	0.10	0.010   0.010
HEPTACHLOR EPOXIDE	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN I	(ND)   ND	0.10	0.010   0.010
4,4'-DDE	(ND)   ND	0.10	0.010   0.010
DIELDRIN	(ND)   ND	0.10	0.010   0.010
ENDRIN	(ND)   ND	0.10	0.010   0.010
4,4'-DDD	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN II	(ND)   ND	0.10	0.010   0.010
4,4'-DDT	(ND)   ND	0.10	0.010   0.010
ENDRIN ALDEHYDE	(ND)   ND	0.10	0.010   0.010
ENDOSULFAN SULFATE	(ND)   ND	0.10	0.010   0.010
ENDRIN KETONE	(ND)   ND	0.10	0.010   0.010
METHOXYCHLOR	(ND)   ND	1.0	0.10   0.10
MIREX	(ND)   ND	0.10	0.010   0.010
TOXAPHENE	(ND)   ND	2.0	0.50   0.50
CHLORDANE (TECHNICAL)	(ND)   ND	1.0	0.25   0.25

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	0.3237   (0.3276)	0.4000	80.9   (81.9)	60-140
DECACHLOROBIPHENYL	0.3308   (0.3703)	0.4000	82.7   (92.6)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPG024WB CPG024WL CPG024WC  
LAB FILE ID: RG13036A RG13037A RG13038A  
DATE EXTRACTED: 07/12/1214:00 07/12/1214:00 07/12/1214:00 DATE COLLECTED: NA  
DATE ANALYZED: 07/13/1223:15 07/13/1223:36 07/13/1223:58 DATE RECEIVED: 07/12/12  
PREP. BATCH: CPG024W CPG024W CPG024W  
CALIB. REF: RG13032A RG13032A RG13032A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
alpha-BHC	(ND)   ND	0.200	(0.230)   0.224	(115)   112	0.200	0.229   (0.230)	114   (115)	0   (3)	30-150	30
gamma-BHC (Lindane)	(ND)   ND	0.200	(0.231)   0.230	(116)   115	0.200	(0.231)   0.230	(116)   115	(0)   0	40-130	30
beta-BHC	(ND)   ND	0.200	0.225   (0.238)	112   (119)	0.200	0.226   (0.242)	113   (121)	0   (2)	60-130	30
Heptachlor	(ND)   ND	0.200	0.223   (0.224)	112   (112)	0.200	0.220   (0.222)	110   (111)	1   (1)	30-140	30
delta-BHC	(ND)   ND	0.200	(0.245)   0.241	(122)   120	0.200	(0.245)   0.240	(122)   120	(0)   0	30-150	30
Aldrin	(ND)   ND	0.200	0.218   (0.230)	109   (115)	0.200	0.217   (0.231)	108   (116)	0   (0)	40-130	30
Heptachlor Epoxide	(ND)   ND	0.200	0.221   (0.228)	110   (114)	0.200	0.218   (0.227)	109   (114)	1   (0)	50-140	30
Endosulfan I	(ND)   ND	0.200	0.201   (0.220)	100   (110)	0.200	0.199   (0.218)	100   (109)	1   (1)	60-140	30
4,4'-DDE	(ND)   ND	0.200	0.223   (0.230)	112   (115)	0.200	0.224   (0.230)	112   (115)	0   (0)	50-140	30
Dieldrin	(ND)   ND	0.200	0.231   (0.233)	116   (116)	0.200	0.231   (0.233)	116   (116)	0   (0)	60-140	30
Endrin	(ND)   ND	0.200	(0.230)   0.229	(115)   114	0.200	(0.230)   0.230	(115)   115	(0)   0	50-140	30
4,4'-DDD	(ND)   ND	0.200	(0.238)   0.236	(119)   118	0.200	0.236   (0.242)	118   (121)	1   (3)	50-160	30
Endosulfan II	(ND)   ND	0.200	0.221   (0.223)	110   (112)	0.200	0.220   (0.229)	110   (114)	0   (3)	60-150	30
4,4'-DDT	(ND)   ND	0.200	(0.273)   0.249	(136)   124	0.200	(0.269)   0.247	(134)   123	(1)   1	60-140	30
Endrin aldehyde	(ND)   ND	0.200	0.226   (0.232)	113   (116)	0.200	0.227   (0.232)	114   (116)	0   (0)	60-160	30
Endosulfan Sulfate	(ND)   ND	0.200	0.236   (0.244)	118   (122)	0.200	0.238   (0.245)	119   (122)	1   (0)	70-140	30
Endrin Ketone	(ND)   ND	0.200	0.231   (0.235)	116   (118)	0.200	0.231   (0.235)	116   (118)	0   (0)	30-150	30
Methoxychlor	(ND)   ND	2.00	2.33   (2.50)	116   (125)	2.00	2.34   (2.51)	117   (126)	0   (0)	70-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Tetrachloro-m-xylene	0.4000	0.3471   (0.3530)	86.8   (88.3)	0.4000	0.3440   (0.3457)	86.0   (86.4)	60-140
Decachlorobiphenyl	0.4000	0.3289   (0.3775)	82.2   (94.4)	0.4000	0.3292   (0.3769)	82.3   (94.2)	20-120

METHOD 3520C/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/12/12 14:00
Sample ID    : FB-071112                        Date Analyzed: 07/20/12 22:11
Lab Samp ID  : G064-01                          Dilution Factor: 1.02
Lab File ID  : KG20012A                         Matrix          : WATER
Ext Btch ID  : CPG024W                          % Moisture     : NA
Calib. Ref.  : KG20002A                         Instrument ID   : GCT071
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.51   0.51
AROCLOR 1221	(ND)   ND	1.0	0.51   0.51
AROCLOR 1232	(ND)   ND	1.0	0.51   0.51
AROCLOR 1242	(ND)   ND	1.0	0.51   0.51
AROCLOR 1248	(ND)   ND	1.0	0.51   0.51
AROCLOR 1254	(ND)   ND	1.0	0.51   0.51
AROCLOR 1260	(ND)   ND	1.0	0.51   0.51
AROCLOR 1262	(ND)   ND	1.0	0.51   0.51
AROCLOR 1268	(ND)   ND	1.0	0.51   0.51
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	0.5008   (0.3780)	0.4080	123*   (92.6)	45-120
TETRACHLORO-M-XYLENE	0.4278   (0.4281)	0.4080	105   (105)	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3520C/8082  
PCBs

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 07/12/12
Batch No.    : 12G064                             Date Extracted: 07/12/12 14:00
Sample ID    : MBLK1W                             Date Analyzed: 07/20/12 15:51
Lab Samp ID  : CPG024WB                           Dilution Factor: 1
Lab File ID  : KG20005A                           Matrix          : WATER
Ext Btch ID  : CPG024W                             % Moisture      : NA
Calib. Ref.  : KG20002A                           Instrument ID   : GCT071
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	0.5047   (0.3894)	0.4000	126*   (97.4)	45-120
TETRACHLORO-M-XYLENE	0.4697   (0.5105)	0.4000	117   (128)	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPG024WB 60G024WX 60G024WY  
LAB FILE ID: KG20005A KG20006A KG20007A  
DATE EXTRACTED: 07/12/1214:00 07/12/1214:00 07/12/1214:00 DATE COLLECTED: NA  
DATE ANALYZED: 07/20/1215:51 07/20/1216:46 07/20/1217:40 DATE RECEIVED: 07/12/12  
PREP. BATCH: CPG024W CPG024W CPG024W  
CALIB. REF: KG20002A KG20002A KG20002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	5.01   (5.13)	100   (103)	5.00	5.01   (5.58)	100   (112)	0   (8)	50-130	30
Aroclor 1260	(ND)   ND	5.00	5.49   (5.50)	110   (110)	5.00	(5.76)   5.64	(115)   113	(5)   3	60-150	30
Aroclor 5460	(ND)   ND	2.50	2.71   (3.11)	108   (124)	2.50	2.83   (3.18)	113   (127)	4   (2)	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	(0.4715)   0.3623	(118)   90.6	0.4000	0.4990   (0.3719)	125*   (93.0)	45-120
Tetrachloro-m-xylene	0.4000	0.4667   (0.4920)	117   (123)	0.4000	0.4714   (0.5046)	118   (126)	30-140

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/17/12 14:54
Sample ID    : SL-586-SA5C-SB-4.0-5.0          Date Analyzed: 07/21/12 22:19
Lab Samp ID  : G064-03                           Dilution Factor: 1
Lab File ID  : SG20058A                          Matrix          : SOIL
Ext Btch ID  : CPG031S                            % Moisture     : 7.5
Calib. Ref.  : SG20048A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(17.13)   16.80	14.41	(119)   117	45-120
TETRACHLORO-M-XYLENE	11.68   (12.46)	14.41	81.1   (86.5)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/17/12 14:54
Sample ID    : SL-586-SA5C-SB-9.0-10.0         Date Analyzed: 07/21/12 22:53
Lab Samp ID  : G064-05                          Dilution Factor: 1
Lab File ID  : SG20059A                         Matrix          : SOIL
Ext Btch ID  : CPG031S                          % Moisture     : 11.7
Calib. Ref.  : SG20048A                         Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	19.61   (18.55)	15.10	130*   (123*)	45-120
TETRACHLORO-M-XYLENE	13.93   (14.77)	15.10	92.3   (97.9)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/17/12 14:54
Sample ID:   SL-607-SA5C-SB-0.0-0.5            Date Analyzed: 07/21/12 23:27
Lab Samp ID: G064-10                             Dilution Factor: 1
Lab File ID: SG20060A                           Matrix          : SOIL
Ext Btch ID: CPG031S                             % Moisture     : 11.1
Calib. Ref.: SG20048A                           Instrument ID  : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.50)   16.49	14.99	(110)   110	45-120
TETRACHLORO-M-XYLENE	13.43   (14.23)	14.99	89.6   (94.9)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/17/12 14:54
Sample ID    : SL-607-SA5C-SB-4.0-5.0          Date Analyzed: 07/22/12 00:02
Lab Samp ID  : G064-11                          Dilution Factor: 1
Lab File ID  : SG20061A                        Matrix          : SOIL
Ext Btch ID  : CPG031S                         % Moisture     : 13.0
Calib. Ref.  : SG20048A                        Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	16.28   (16.40)	15.32	106   (107)	45-120
TETRACHLORO-M-XYLENE	14.86   (15.92)	15.32	97.0   (104)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 07/11/12
Project     : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.   : 12G064                           Date Extracted: 07/17/12 14:54
Sample ID   : SL-607-SA5C-SB-9.0-10.0         Date Analyzed: 07/22/12 00:36
Lab Samp ID: G064-13                           Dilution Factor: 1
Lab File ID: SG20062A                          Matrix          : SOIL
Ext Btch ID: CPG031S                           % Moisture     : 11.3
Calib. Ref.: SG20048A                          Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
AROCLOR 1016	(ND)   ND	23	11   11
AROCLOR 1221	(ND)   ND	23	11   11
AROCLOR 1232	(ND)   ND	23	11   11
AROCLOR 1242	(ND)   ND	23	11   11
AROCLOR 1248	(ND)   ND	23	11   11
AROCLOR 1254	(ND)   ND	23	11   11
AROCLOR 1260	(ND)   ND	23	11   11
AROCLOR 1262	(ND)   ND	23	11   11
AROCLOR 1268	(ND)   ND	23	11   11
AROCLOR 5432	(ND)   ND	45	23   23
AROCLOR 5442	(ND)   ND	45	23   23
AROCLOR 5460	(ND)   ND	45	23   23

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	18.58   (18.26)	15.03	124*   (121*)	45-120
TETRACHLORO-M-XYLENE	13.55   (14.55)	15.03	90.1   (96.8)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/17/12
Batch No.    : 12G064                           Date Extracted: 07/17/12 14:54
Sample ID    : MBLK1S                           Date Analyzed: 07/21/12 08:38
Lab Samp ID  : 60G031SB                         Dilution Factor: 1
Lab File ID  : SG20034A                         Matrix          : SOIL
Ext Btch ID  : CPG031S                          % Moisture     : NA
Calib. Ref.  : SG20031A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	15.76   (16.05)	13.33	118   (120)	45-120
TETRACHLORO-M-XYLENE	12.01   (12.98)	13.33	90.1   (97.4)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60G031SB 60G031SL 60G031SC  
LAB FILE ID: SG20034A SG20035A SG20036A  
DATE EXTRACTED: 07/17/1214:54 07/17/1214:54 07/17/1214:54 DATE COLLECTED: NA  
DATE ANALYZED: 07/21/1208:38 07/21/1209:12 07/21/1209:46 DATE RECEIVED: 07/17/12  
PREP. BATCH: CPG031S CPG031S CPG031S  
CALIB. REF: SG20031A SG20031A SG20031A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(177)   166	(106)   100	167	(170)   160	(102)   96	(4)   4	50-130	50
Aroclor 1260	(ND)   ND	167	(202)   195	(121)   117	167	(203)   198	(122)   119	(0)   2	60-150	50
Aroclor 5460	(ND)   ND	83.3	(96.7)   94.8	(116)   114	83.3	(104)   102	(125)   122	(7)   7	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	15.93   (15.94)	119   (120)	13.33	15.73   (15.81)	118   (119)	45-120
Tetrachloro-m-xylene	13.33	13.12   (13.62)	98.4   (102)	13.33	12.19   (12.66)	91.4   (95.0)	10-160

METHOD 8151A  
HERBICIDES

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
Batch No.    : 12G064                           Date Extracted: 07/16/12 19:00
Sample ID    : FB-071112                        Date Analyzed: 07/17/12 12:53
Lab Samp ID  : G064-01                          Dilution Factor: 1
Lab File ID  : WG17009A                         Matrix          : WATER
Ext Btch ID  : HEG003W                          % Moisture     : NA
Calib. Ref.  : WG17002A                         Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
2,4-D	(ND)   ND	0.80	0.20   0.20
2,4-DB	(ND)   ND	0.80	0.20   0.20
2,4,5-T	(ND)   ND	0.80	0.20   0.20
2,4,5-TP (SILVEX)	(ND)   ND	0.80	0.20   0.20
DALAPON	(ND)   ND	0.80	0.20   0.20
DICAMBA	(ND)   ND	0.80	0.20   0.20
DICHLOROPROP	(ND)   ND	0.80	0.20   0.20
DINOSEB	(ND)   0.72J	0.80	0.20   0.20
MCPA	(ND)   ND	100	20   20
MCPA	(ND)   ND	100	20   20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(10.02)   9.735	10.00	(100)   97.4	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

METHOD 8151A  
HERBICIDES

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 07/16/12
Batch No.  : 12G064                             Date Extracted: 07/16/12 19:00
Sample ID  : MBLK1W                             Date Analyzed: 07/17/12 10:52
Lab Samp ID: HEG003WB                          Dilution Factor: 1
Lab File ID: WG17003A                          Matrix          : WATER
Ext Btch ID: HEG003W                           % Moisture     : NA
Calib. Ref.: WG17002A                          Instrument ID   : GCT016
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)	
2,4-D	(ND)   ND	0.80	0.20   0.20	
2,4-DB	(ND)   ND	0.80	0.20   0.20	
2,4,5-T	(ND)   ND	0.80	0.20   0.20	
2,4,5-TP (SILVEX)	(ND)   ND	0.80	0.20   0.20	
DALAPON	(ND)   ND	0.80	0.20   0.20	
DICAMBA	(ND)   ND	0.80	0.20   0.20	
DICHLOROPROP	(ND)   ND	0.80	0.20   0.20	
DINOSEB	(ND)   ND	0.80	0.20   0.20	
MCPA	(ND)   ND	100	20   20	
MCPP	(ND)   ND	100	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4-DCPAA	(10.40)   10.07	10.00	(104)   101	40-140

Left of | is related to first column; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 8151A

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HEG003WB HEG003WL HEG003WC  
LAB FILE ID: WG17003A WG17004A WG17005A  
DATE EXTRACTED: 07/16/1219:00 07/16/1219:00 07/16/1219:00 DATE COLLECTED: NA  
DATE ANALYZED: 07/17/1210:52 07/17/1211:12 07/17/1211:32 DATE RECEIVED: 07/16/12  
PREP. BATCH: HEG003W HEG003W HEG003W  
CALIB. REF: WG17002A WG17002A WG17002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
2,4-D	(ND)   ND	1.00	(1.13)   1.01	(113)   101	1.00	(1.17)   1.04	(117)   104	(3)   3	40-130	30
2,4-DB	(ND)   ND	1.00	0.894   (0.986)	89   (99)	1.00	0.912   (1.02)	91   (102)	2   (3)	30-160	30
2,4,5-T	(ND)   ND	1.00	(1.04)   0.999	(104)   100	1.00	(1.05)   1.02	(105)   102	(1)   2	40-140	30
2,4,5-TP (Silvex)	(ND)   ND	1.00	1.10   (1.17)	110   (117)	1.00	1.10   (1.12)	110   (112)	0   (4)	60-140	30
Dalapon	(ND)   ND	1.00	0.572J   (0.735J)	57   (74)	1.00	0.568J   (0.750J)	57   (75)	1   (2)	30-130	30
Dicamba	(ND)   ND	1.00	(1.08)   1.04	(108)   104	1.00	(1.04)   1.04	(104)   104	(4)   0	50-130	30
Dichloroprop	(ND)   ND	1.00	1.15   (1.24)	115   (124)	1.00	1.20   (1.21)	120   (121)	4   (2)	70-150	30
Dinoseb	(ND)   ND	1.00	(0.643J)   0.534J	(64)   53	1.00	(0.693J)   0.606J	(69)   61	(7)   13	20-130	30
MCPA	(ND)   ND	50.0	53.8J   (56.1J)	108   (112)	50.0	49.7J   (52.8J)	99   (106)	8   (6)	30-150	30
MCPP	(ND)   ND	50.0	(60.7J)   52.3J	(121)   105	50.0	50.1J   (50.5J)	100   (101)	19   (4)	30-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
2,4-DCPAA	10.00	(10.49)   10.30	(105)   103	10.00	(10.36)   10.19	(104)   102	40-140

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/11/12
Project     : SSFL PHASE 3                     Date Received: 07/11/12
SDG NO.    : 12G064                           Date Extracted: 07/16/12 14:15
Sample ID   : FB-071112                       Date Analyzed: 07/25/12 16:55
Lab Samp ID: G064-01                          Dilution Factor: 1
Lab File ID: 98G07078                        Matrix          : WATER
Ext Btch ID: IMG017W                         % Moisture     : NA
Calib. Ref.: 98G07073                       Instrument ID   : T-I98
=====

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PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	0.0296J	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.00102	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	0.000204J	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 07/16/12
SDG NO.     : 12G064                           Date Extracted: 07/16/12 14:15
Sample ID   : MBLK1W                           Date Analyzed: 07/25/12 16:41
Lab Samp ID : IMG017WB                         Dilution Factor: 1
Lab File ID : 98G07075                         Matrix          : WATER
Ext Btch ID : IMG017W                          % Moisture     : NA
Calib. Ref. : 98G07073                         Instrument ID   : T-I98
=====
  
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PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G064  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMG017WB IMG017WL IMG017WC  
LAB FILE ID: 98G07075 98G07076 98G07077  
DATIME EXTRACTD: 07/16/1214:15 07/16/1214:15 07/16/1214:15 DATE COLLECTED: NA  
DATIME ANALYZD: 07/25/1216:41 07/25/1216:46 07/25/1216:51 DATE RECEIVED: 07/16/12  
PREP. BATCH: IMG017W IMG017W IMG017W  
CALIB. REF: 98G07073 98G07073 98G07073

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.55	102	2.50	2.62	105	3	80-120	20
Antimony	ND	0.0250	0.0242	97	0.0250	0.0248	99	2	80-120	20
Arsenic	ND	0.0250	0.0236	94	0.0250	0.0245	98	4	80-120	20
Barium	ND	0.0250	0.0248	99	0.0250	0.0253	101	2	80-120	20
Beryllium	ND	0.0250	0.0231	92	0.0250	0.0237	95	3	80-120	20
Boron	ND	0.0250	0.0241	97	0.0250	0.0248	99	3	80-120	20
Cadmium	ND	0.0250	0.0243	97	0.0250	0.0248	99	2	80-120	20
Calcium	ND	2.50	2.59	104	2.50	2.70	108	4	80-120	20
Chromium	ND	0.0250	0.0230	92	0.0250	0.0236	94	3	80-120	20
Cobalt	ND	0.0250	0.0233	93	0.0250	0.0237	95	2	80-120	20
Copper	ND	0.0250	0.0224	90	0.0250	0.0231	92	3	80-120	20
Iron	ND	2.50	2.54	102	2.50	2.62	105	3	80-120	20
Lead	ND	0.0250	0.0244	97	0.0250	0.0251	100	3	80-120	20
Magnesium	ND	2.50	2.59	104	2.50	2.65	106	2	80-120	20
Manganese	ND	0.0250	0.0244	98	0.0250	0.0251	100	3	80-120	20
Molybdenum	ND	0.0250	0.0242	97	0.0250	0.0248	99	3	80-120	20
Nickel	ND	0.0250	0.0228	91	0.0250	0.0233	93	3	80-120	20
Potassium	ND	2.50	2.63	105	2.50	2.68	107	2	80-120	20
Selenium	ND	0.0250	0.0240	96	0.0250	0.0247	99	3	80-120	20
Silver	ND	0.0250	0.0252	101	0.0250	0.0256	102	1	80-120	20
Sodium	ND	2.50	2.50	100	2.50	2.59	104	4	80-120	20
Strontium	ND	0.0250	0.0241	96	0.0250	0.0249	100	3	80-120	20
Thallium	ND	0.0250	0.0240	96	0.0250	0.0249	100	3	80-120	20
Tin	ND	0.0250	0.0247	99	0.0250	0.0256	102	3	80-120	20
Titanium	ND	0.0250	0.0243	97	0.0250	0.0252	101	4	80-120	20
Vanadium	ND	0.0250	0.0228	91	0.0250	0.0233	93	2	80-120	20
Zinc	ND	0.0500	0.0522	104	0.0500	0.0510	102	2	80-120	20
Lithium	ND	0.0250	0.0230	92	0.0250	0.0241	96	5	80-120	20
Phosphorus	ND	0.250	0.241	96	0.250	0.247	99	3	80-120	20
Zirconium	ND	0.0250	0.0244	97	0.0250	0.0251	100	3	80-120	20

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/11/12
Project     : SSFL PHASE 3                     Date Received: 07/11/12
SDG NO.    : 12G064                           Date Extracted: 07/18/12 11:15
Sample ID: SL-586-SA5C-SB-4.0-5.0           Date Analyzed: 07/25/12 15:51
Lab Samp ID: G064-03                         Dilution Factor: 1.00
Lab File ID: 98G07064                       Matrix          : SOIL
Ext Btch ID: IMG023S                        % Moisture     : 7.5
Calib. Ref.: 98G07061                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16300	108	13.0
Antimony	0.243J	0.541	0.108
Arsenic	6.99	0.541	0.216
Barium	112	0.541	0.216
Beryllium	0.820	0.541	0.0541
Boron	3.04J	5.41	2.70
Cadmium	0.255J	0.541	0.0541
Calcium	3400	21.6	10.8
Chromium	26.2	0.541	0.216
Cobalt	7.77	0.541	0.0541
Copper	13.6	0.541	0.216
Iron	27100	108	10.8
Lead	9.43	0.541	0.108
Magnesium	5850	10.8	5.41
Manganese	334	0.541	0.270
Molybdenum	0.711	0.541	0.0541
Nickel	20.5	0.541	0.216
Potassium	3370	108	32.4
Selenium	ND	0.541	0.216
Silver	0.0577J	0.541	0.0541
Sodium	101J	108	54.1
Strontium	25.7	0.541	0.270
Thallium	0.317J	0.432	0.0541
Tin	ND	10.8	5.41
Titanium	777	1.08	0.541
Vanadium	41.0	0.541	0.0541
Zinc	67.3	5.41	1.62
Lithium	30.1	2.16	1.08
Phosphorus	338	13.0	6.49
Zirconium	ND	5.41	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/11/12
Project     : SSFL PHASE 3                     Date Received: 07/11/12
SDG NO.    : 12G064                           Date Extracted: 07/18/12 11:15
Sample ID: SL-586-SA5C-SB-9.0-10.0           Date Analyzed: 07/25/12 15:56
Lab Samp ID: G064-05                          Dilution Factor: 0.995
Lab File ID: 98G07065                         Matrix          : SOIL
Ext Btch ID: IMG023S                          % Moisture     : 11.7
Calib. Ref.: 98G07061                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	21400	113	13.5
Antimony	0.267J	0.563	0.113
Arsenic	6.20	0.563	0.225
Barium	146	0.563	0.225
Beryllium	0.785	0.563	0.0563
Boron	3.30J	5.63	2.82
Cadmium	0.234J	0.563	0.0563
Calcium	7690	22.5	11.3
Chromium	23.9	0.563	0.225
Cobalt	7.75	0.563	0.0563
Copper	9.40	0.563	0.225
Iron	25700	113	11.3
Lead	7.55	0.563	0.113
Magnesium	5380	11.3	5.63
Manganese	299	0.563	0.282
Molybdenum	0.483J	0.563	0.0563
Nickel	13.8	0.563	0.225
Potassium	2350	113	33.8
Selenium	ND	0.563	0.225
Silver	0.0658J	0.563	0.0563
Sodium	154	113	56.3
Strontium	40.1	0.563	0.282
Thallium	0.277J	0.451	0.0563
Tin	ND	11.3	5.63
Titanium	915	1.13	0.563
Vanadium	45.8	0.563	0.0563
Zinc	54.8	5.63	1.69
Lithium	25.4	2.25	1.13
Phosphorus	184	13.5	6.76
Zirconium	3.93J	5.63	2.82

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/11/12
Project    : SSFL PHASE 3                     Date Received: 07/11/12
SDG NO.    : 12G064                           Date Extracted: 07/18/12 11:15
Sample ID  : SL-589-SA5C-SB-4.0-5.0          Date Analyzed: 07/25/12 16:00
Lab Samp ID: G064-07                          Dilution Factor: 0.971
Lab File ID: 98G07066                         Matrix          : SOIL
Ext Btch ID: IMG023S                          % Moisture     : 10.1
Calib. Ref.: 98G07061                        Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	19500	108	13.0
Antimony	0.202J	0.540	0.108
Arsenic	4.75	0.540	0.216
Barium	148	0.540	0.216
Beryllium	0.802	0.540	0.0540
Boron	3.03J	5.40	2.70
Cadmium	0.402J	0.540	0.0540
Calcium	5080	21.6	10.8
Chromium	24.2	0.540	0.216
Cobalt	8.85	0.540	0.0540
Copper	11.3	0.540	0.216
Iron	26700	108	10.8
Lead	9.56	0.540	0.108
Magnesium	5580	10.8	5.40
Manganese	436	0.540	0.270
Molybdenum	0.447J	0.540	0.0540
Nickel	16.2	0.540	0.216
Potassium	3560	108	32.4
Selenium	ND	0.540	0.216
Silver	ND	0.540	0.0540
Sodium	266	108	54.0
Strontium	34.8	0.540	0.270
Thallium	0.315J	0.432	0.0540
Tin	ND	10.8	5.40
Titanium	712	1.08	0.540
Vanadium	47.7	0.540	0.0540
Zinc	60.3	5.40	1.62
Lithium	18.4	2.16	1.08
Phosphorus	312	13.0	6.48
Zirconium	ND	5.40	2.70

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/11/12
Project     : SSFL PHASE 3                     Date Received: 07/11/12
SDG NO.    : 12G064                           Date Extracted: 07/18/12 11:15
Sample ID: SL-591-SA5C-SB-4.0-5.0           Date Analyzed: 07/25/12 16:05
Lab Samp ID: G064-08                         Dilution Factor: 0.980
Lab File ID: 98G07067                       Matrix          : SOIL
Ext Btch ID: IMG023S                        % Moisture     : 10.7
Calib. Ref.: 98G07061                       Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18500	110	13.2
Antimony	0.197J	0.549	0.110
Arsenic	4.41	0.549	0.219
Barium	135	0.549	0.219
Beryllium	0.706	0.549	0.0549
Boron	3.23J	5.49	2.74
Cadmium	0.357J	0.549	0.0549
Calcium	4920	21.9	11.0
Chromium	23.1	0.549	0.219
Cobalt	7.98	0.549	0.0549
Copper	11.5	0.549	0.219
Iron	24600	110	11.0
Lead	10.0	0.549	0.110
Magnesium	5620	11.0	5.49
Manganese	363	0.549	0.274
Molybdenum	0.476J	0.549	0.0549
Nickel	15.8	0.549	0.219
Potassium	3590	110	32.9
Selenium	ND	0.549	0.219
Silver	ND	0.549	0.0549
Sodium	118	110	54.9
Strontium	31.2	0.549	0.274
Thallium	0.281J	0.439	0.0549
Tin	ND	11.0	5.49
Titanium	697	1.10	0.549
Vanadium	43.1	0.549	0.0549
Zinc	73.5	5.49	1.65
Lithium	18.8	2.19	1.10
Phosphorus	277	13.2	6.58
Zirconium	ND	5.49	2.74

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/11/12
Project    : SSFL PHASE 3                       Date Received: 07/11/12
SDG NO.    : 12G064                             Date Extracted: 07/18/12 11:15
Sample ID: SL-592-SA5C-SB-5.0-6.0             Date Analyzed: 07/25/12 16:09
Lab Samp ID: G064-09                           Dilution Factor: 0.985
Lab File ID: 98G07068                          Matrix          : SOIL
Ext Btch ID: IMG023S                            % Moisture     : 6.0
Calib. Ref.: 98G07061                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14900	105	12.6
Antimony	0.205J	0.524	0.105
Arsenic	3.65	0.524	0.210
Barium	122	0.524	0.210
Beryllium	0.556	0.524	0.0524
Boron	ND	5.24	2.62
Cadmium	0.254J	0.524	0.0524
Calcium	4540	21.0	10.5
Chromium	22.2	0.524	0.210
Cobalt	5.71	0.524	0.0524
Copper	8.06	0.524	0.210
Iron	21000	105	10.5
Lead	7.08	0.524	0.105
Magnesium	4800	10.5	5.24
Manganese	315	0.524	0.262
Molybdenum	1.93	0.524	0.0524
Nickel	11.3	0.524	0.210
Potassium	2690	105	31.4
Selenium	ND	0.524	0.210
Silver	ND	0.524	0.0524
Sodium	165	105	52.4
Strontium	26.9	0.524	0.262
Thallium	0.247J	0.419	0.0524
Tin	ND	10.5	5.24
Titanium	945	1.05	0.524
Vanadium	34.7	0.524	0.0524
Zinc	161	5.24	1.57
Lithium	19.6	2.10	1.05
Phosphorus	241	12.6	6.29
Zirconium	ND	5.24	2.62

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/11/12
Project     : SSFL PHASE 3                     Date Received: 07/11/12
SDG NO.    : 12G064                           Date Extracted: 07/18/12 11:15
Sample ID:  SL-607-SA5C-SB-0.0-0.5           Date Analyzed: 07/25/12 16:14
Lab Samp ID: G064-10                          Dilution Factor: 0.985
Lab File ID: 98G07069                         Matrix          : SOIL
Ext Btch ID: IMG023S                          % Moisture     : 11.1
Calib. Ref.: 98G07061                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13800	111	13.3
Antimony	0.123J	0.554	0.111
Arsenic	3.97	0.554	0.222
Barium	80.8	0.554	0.222
Beryllium	0.525J	0.554	0.0554
Boron	ND	5.54	2.77
Cadmium	0.178J	0.554	0.0554
Calcium	3610	22.2	11.1
Chromium	14.4	0.554	0.222
Cobalt	4.70	0.554	0.0554
Copper	6.29	0.554	0.222
Iron	18700	111	11.1
Lead	5.18	0.554	0.111
Magnesium	4040	11.1	5.54
Manganese	227	0.554	0.277
Molybdenum	0.422J	0.554	0.0554
Nickel	7.95	0.554	0.222
Potassium	2430	111	33.2
Selenium	ND	0.554	0.222
Silver	ND	0.554	0.0554
Sodium	128	111	55.4
Strontium	19.6	0.554	0.277
Thallium	0.236J	0.443	0.0554
Tin	ND	11.1	5.54
Titanium	823	1.11	0.554
Vanadium	29.6	0.554	0.0554
Zinc	44.1	5.54	1.66
Lithium	16.6	2.22	1.11
Phosphorus	225	13.3	6.65
Zirconium	ND	5.54	2.77

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 07/11/12
Project      : SSFL PHASE 3                     Date Received: 07/11/12
SDG NO.     : 12G064                           Date Extracted: 07/18/12 11:15
Sample ID   : SL-607-SA5C-SB-4.0-5.0          Date Analyzed: 07/25/12 16:19
Lab Samp ID : G064-11                           Dilution Factor: 0.985
Lab File ID : 98G07070                         Matrix          : SOIL
Ext Btch ID : IMG023S                          % Moisture     : 13.0
Calib. Ref. : 98G07061                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13900	113	13.6
Antimony	0.165J	0.566	0.113
Arsenic	4.10	0.566	0.226
Barium	114	0.566	0.226
Beryllium	0.640	0.566	0.0566
Boron	ND	5.66	2.83
Cadmium	0.123J	0.566	0.0566
Calcium	3470	22.6	11.3
Chromium	18.8	0.566	0.226
Cobalt	4.31	0.566	0.0566
Copper	7.14	0.566	0.226
Iron	20900	113	11.3
Lead	6.03	0.566	0.113
Magnesium	4050	11.3	5.66
Manganese	142	0.566	0.283
Molybdenum	0.688	0.566	0.0566
Nickel	8.37	0.566	0.226
Potassium	1600	113	34.0
Selenium	ND	0.566	0.226
Silver	ND	0.566	0.0566
Sodium	326	113	56.6
Strontium	31.7	0.566	0.283
Thallium	0.241J	0.453	0.0566
Tin	ND	11.3	5.66
Titanium	648	1.13	0.566
Vanadium	32.5	0.566	0.0566
Zinc	38.5	5.66	1.70
Lithium	14.2	2.26	1.13
Phosphorus	113	13.6	6.79
Zirconium	ND	5.66	2.83

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/11/12
Project     : SSFL PHASE 3                     Date Received: 07/11/12
SDG NO.    : 12G064                            Date Extracted: 07/18/12 11:15
Sample ID:  SL-607-SA5C-SB-9.0-10.0          Date Analyzed: 07/25/12 16:23
Lab Samp ID: G064-13                          Dilution Factor: 0.985
Lab File ID: 98G07071                         Matrix          : SOIL
Ext Btch ID: IMG023S                          % Moisture     : 11.3
Calib. Ref.: 98G07061                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15100	111	13.3
Antimony	0.470J	0.555	0.111
Arsenic	10.7	0.555	0.222
Barium	114	0.555	0.222
Beryllium	0.982	0.555	0.0555
Boron	ND	5.55	2.78
Cadmium	0.217J	0.555	0.0555
Calcium	6420	22.2	11.1
Chromium	25.2	0.555	0.222
Cobalt	8.60	0.555	0.0555
Copper	16.3	0.555	0.222
Iron	30600	111	11.1
Lead	9.49	0.555	0.111
Magnesium	6710	11.1	5.55
Manganese	286	0.555	0.278
Molybdenum	0.664	0.555	0.0555
Nickel	18.7	0.555	0.222
Potassium	2600	111	33.3
Selenium	ND	0.555	0.222
Silver	0.0989J	0.555	0.0555
Sodium	625	111	55.5
Strontium	42.0	0.555	0.278
Thallium	0.580	0.444	0.0555
Tin	ND	11.1	5.55
Titanium	972	1.11	0.555
Vanadium	45.2	0.555	0.0555
Zinc	80.5	5.55	1.67
Lithium	34.6	2.22	1.11
Phosphorus	515	13.3	6.66
Zirconium	ND	5.55	2.78

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                       Date Received: 07/18/12
SDG NO.    : 12G064                             Date Extracted: 07/18/12 11:15
Sample ID  : MBLK1S                             Date Analyzed: 07/25/12 13:58
Lab Samp ID: IMG023SB                           Dilution Factor: 1
Lab File ID: 98G07039                           Matrix          : SOIL
Ext Btch ID: IMG023S                             % Moisture     : NA
Calib. Ref.: 98G07037                           Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G064  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMG023SB IMG023SL IMG023SC  
LAB FILE ID: 98G07039 98G07040 98G07041  
DATIME EXTRACTD: 07/18/1211:15 07/18/1211:15 07/18/1211:15 DATE COLLECTED: NA  
DATIME ANALYZD: 07/25/1213:58 07/25/1214:02 07/25/1214:07 DATE RECEIVED: 07/18/12  
PREP. BATCH: IMG023S IMG023S IMG023S  
CALIB. REF: 98G07037 98G07037 98G07037

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2470	99	2500	2490	100	1	80-120	20
Antimony	ND	25.0	23.9	95	25.0	24.4	98	2	80-120	20
Arsenic	ND	25.0	23.1	92	25.0	23.5	94	2	80-120	20
Barium	ND	25.0	24.4	97	25.0	24.9	100	2	80-120	20
Beryllium	ND	25.0	23.9	96	25.0	24.2	97	1	80-120	20
Boron	ND	25.0	24.4	98	25.0	25.1	100	3	80-120	20
Cadmium	ND	25.0	23.6	95	25.0	24.0	96	1	80-120	20
Calcium	ND	2500	2580	103	2500	2630	105	2	80-120	20
Chromium	ND	25.0	23.4	94	25.0	23.6	94	1	80-120	20
Cobalt	ND	25.0	24.0	96	25.0	24.5	98	2	80-120	20
Copper	ND	25.0	22.6	90	25.0	22.9	92	1	80-120	20
Iron	ND	2500	2520	101	2500	2610	104	3	80-120	20
Lead	ND	25.0	24.4	98	25.0	24.6	98	1	80-120	20
Magnesium	ND	2500	2480	99	2500	2500	100	1	80-120	20
Manganese	ND	25.0	24.8	99	25.0	25.2	101	2	80-120	20
Molybdenum	ND	25.0	24.0	96	25.0	24.4	98	2	80-120	20
Nickel	ND	25.0	22.8	91	25.0	23.1	92	1	80-120	20
Potassium	ND	2500	2580	103	2500	2620	105	1	80-120	20
Selenium	ND	25.0	22.8	91	25.0	22.7	91	0	80-120	20
Silver	ND	25.0	24.2	97	25.0	24.6	98	2	80-120	20
Sodium	ND	2500	2450	98	2500	2500	100	2	80-120	20
Strontium	ND	25.0	24.9	100	25.0	25.3	101	1	80-120	20
Thallium	ND	25.0	24.3	97	25.0	24.7	99	2	80-120	20
Tin	ND	25.0	26.6	107	25.0	27.1	109	2	80-120	20
Titanium	ND	25.0	24.4	98	25.0	24.7	99	1	80-120	20
Vanadium	ND	25.0	23.2	93	25.0	23.4	94	1	80-120	20
Zinc	ND	50.0	45.5	91	50.0	46.3	93	2	80-120	20
Lithium	ND	25.0	25.4	101	25.0	25.3	101	0	80-120	20
Phosphorus	ND	250	224	90	250	226	91	1	80-120	20
Zirconium	ND	25.0	25.7	103	25.0	25.9	104	1	80-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G064  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.2  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-506-SA5B-SB-0.0-0.5  
CONTROL NO.: G081-23 G081-23A  
LAB FILE ID: 98G07043 98G07042  
DATIME EXTRACTD: 07/18/1211:15 07/18/1211:15 DATE COLLECTED: 07/12/12  
DATIME ANALYZD: 07/25/1214:15 07/25/1214:11 DATE RECEIVED: 07/12/12  
PREP. BATCH: IMG023S IMG023S  
CALIB. REF: 98G07037 98G07037

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	10600	2690	13100	94	75-125
Antimony	0.184J	26.9	25.7	95	75-125
Arsenic	3.73	26.9	27.2	87	75-125
Barium	93.5	26.9	120	96	75-125
Beryllium	0.483J	26.9	25.7	94	75-125
Boron	ND	26.9	27.7	103	75-125
Cadmium	0.151J	26.9	25.0	92	75-125
Calcium	7700	2690	10500	102	75-125
Chromium	16.2	26.9	39.1	85	75-125
Cobalt	4.69	26.9	28.2	87	75-125
Copper	7.02	26.9	28.6	80	75-125
Iron	16300	2690	19000	98	75-125
Lead	4.96	26.9	30.2	94	75-125
Magnesium	3450	2690	5960	94	75-125
Manganese	247	26.9	268	77	75-125
Molybdenum	1.84	26.9	27.1	94	75-125
Nickel	7.81	26.9	29.8	82	75-125
Potassium	2480	2690	5320	105	75-125
Selenium	ND	26.9	24.0	89	75-125
Silver	ND	26.9	25.0	93	75-125
Sodium	208	2690	2760	95	75-125
Strontium	34.5	26.9	59.5	93	75-125
Thallium	0.232J	26.9	25.5	94	75-125
Tin	ND	26.9	29.4	109	75-125
Titanium	832	26.9	856	90	75-125
Vanadium	27.1	26.9	50.1	86	75-125
Zinc	48.2	53.9	94.3	86	75-125
Lithium	14.6	26.9	41.7	101	75-125
Phosphorus	213	269	471	96	75-125
Zirconium	ND	26.9	27.6	102	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12G064  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.2  
 DILUTION FACTOR: 1.00 5.00  
 SAMPLE ID: SL-506-SA5B-SB SL-506-SA5B-SB  
 EMAX SAMP ID: G081-23 G081-23J  
 LAB FILE ID: 98G07043 98G07044  
 DATE EXTRACTED: 07/18/1211:15 07/18/1211:15 DATE COLLECTED: 07/12/12  
 DATE ANALYZED: 07/25/1214:15 07/25/1214:20 DATE RECEIVED: 07/12/12  
 PREP. BATCH: IMG023S IMG023S  
 CALIB. REF: 98G07037 98G07037

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	10600	11100	5	10
Antimony	0.184J	ND	NA	10
Arsenic	3.73	3.87	4	10
Barium	93.5	89.5	4	10
Beryllium	0.483J	0.503J	NA	10
Boron	ND	ND	0	10
Cadmium	0.151J	ND	NA	10
Calcium	7700	8120	5	10
Chromium	16.2	17.1	5	10
Cobalt	4.69	5.08	8	10
Copper	7.02	7.63	9	10
Iron	16300	17600	8	10
Lead	4.96	5.10	3	10
Magnesium	3450	3620	5	10
Manganese	247	267	8	10
Molybdenum	1.84	1.82J	NA	10
Nickel	7.81	8.45	8	10
Potassium	2480	2590	4	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	208	ND	NA	10
Strontium	34.5	33.1	4	10
Thallium	0.232J	ND	NA	10
Tin	ND	ND	0	10
Titanium	832	851	2	10
Vanadium	27.1	28.2	4	10
Zinc	48.2	51.0	6	10
Lithium	14.6	14.7	1	10
Phosphorus	213	233	10	10
Zirconium	ND	ND	0	10

METHOD 7470A  
MERCURY BY COLD VAPOR

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G064  
=====

Matrix : WATER  
Instrument ID : TI047  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGG012WB	ND	1	NA	0.000500	0.000100	07/13/1214:59	07/13/1211:30	M47G011010	M47G011008	HGG012W	NA	07/13/12
LCS1W	HGG012WL	0.00501	1	NA	0.000500	0.000100	07/13/1215:01	07/13/1211:30	M47G011011	M47G011008	HGG012W	NA	07/13/12
LCD1W	HGG012WC	0.00501	1	NA	0.000500	0.000100	07/13/1215:03	07/13/1211:30	M47G011012	M47G011008	HGG012W	NA	07/13/12
FB-071112	G064-01	ND	1	NA	0.000500	0.000100	07/13/1215:49	07/13/1211:30	M47G011034	M47G011032	HGG012W	07/11/12	07/11/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G064  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGG012WB HGG012WL HGG012WC  
LAB FILE ID: M47G011010 M47G011011 M47G011012  
DATIME EXTRCTD: 07/13/1211:30 07/13/1211:30 07/13/1211:30 DATE COLLECTED: NA  
DATIME ANALYZD: 07/13/1214:59 07/13/1215:01 07/13/1215:03 DATE RECEIVED: 07/13/12  
PREP. BATCH: HGG012W HGG012W HGG012W  
CALIB. REF: M47G011008 M47G011008 M47G011008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00501	100	.005	.00501	100	0	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G064

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGG021SB	ND	1	NA	0.100	0.0500	07/20/1211:13	07/19/1214:30	M47G019041	M47G019032	HGG021S	NA	07/19/12
LCS1S	HGG021SL	0.822	1	NA	0.100	0.0500	07/20/1211:15	07/19/1214:30	M47G019042	M47G019032	HGG021S	NA	07/19/12
LCD1S	HGG021SC	0.822	1	NA	0.100	0.0500	07/20/1211:17	07/19/1214:30	M47G019043	M47G019032	HGG021S	NA	07/19/12
SL-591-SA5C-SB-4.0-5.0AS	G064-08A	0.950	0.998	10.7	0.112	0.0559	07/20/1211:23	07/19/1214:30	M47G019046	M47G019044	HGG021S	07/11/12	07/11/12
SL-591-SA5C-SB-4.0-5.0	G064-08	ND	0.998	10.7	0.112	0.0559	07/20/1211:25	07/19/1214:30	M47G019047	M47G019044	HGG021S	07/11/12	07/11/12
SL-591-SA5C-SB-4.0-5.0DL	G064-08J	ND	4.99	10.7	0.559	0.279	07/20/1211:27	07/19/1214:30	M47G019048	M47G019044	HGG021S	07/11/12	07/11/12
SL-591-SA5C-SB-4.0-5.0MS	G064-08M	0.943	1.01	10.7	0.113	0.0566	07/20/1211:29	07/19/1214:30	M47G019049	M47G019044	HGG021S	07/11/12	07/11/12
SL-591-SA5C-SB-4.0-5.0MSD	G064-08S	0.944	1.00	10.7	0.112	0.0560	07/20/1211:31	07/19/1214:30	M47G019050	M47G019044	HGG021S	07/11/12	07/11/12
SL-586-SA5C-SB-4.0-5.0	G064-03	ND	1.00	7.5	0.108	0.0541	07/20/1211:34	07/19/1214:30	M47G019051	M47G019044	HGG021S	07/11/12	07/11/12
SL-586-SA5C-SB-9.0-10.0	G064-05	ND	1.00	11.7	0.113	0.0566	07/20/1211:36	07/19/1214:30	M47G019052	M47G019044	HGG021S	07/11/12	07/11/12
SL-589-SA5C-SB-4.0-5.0	G064-07	ND	1.00	10.1	0.111	0.0556	07/20/1211:38	07/19/1214:30	M47G019053	M47G019044	HGG021S	07/11/12	07/11/12
SL-592-SA5C-SB-5.0-6.0	G064-09	ND	1.00	6.0	0.106	0.0532	07/20/1211:40	07/19/1214:30	M47G019054	M47G019044	HGG021S	07/11/12	07/11/12
SL-607-SA5C-SB-0.0-0.5	G064-10	ND	1.01	11.1	0.114	0.0568	07/20/1211:43	07/19/1214:30	M47G019055	M47G019044	HGG021S	07/11/12	07/11/12
SL-607-SA5C-SB-4.0-5.0	G064-11	ND	1.00	13.0	0.115	0.0575	07/20/1211:49	07/19/1214:30	M47G019058	M47G019056	HGG021S	07/11/12	07/11/12
SL-607-SA5C-SB-9.0-10.0	G064-13	ND	1.01	11.3	0.114	0.0569	07/20/1211:51	07/19/1214:30	M47G019059	M47G019056	HGG021S	07/11/12	07/11/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G064  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGG021SB HGG021SL HGG021SC  
LAB FILE ID: M47G019041 M47G019042 M47G019043  
DATIME EXTRCTD: 07/19/1214:30 07/19/1214:30 07/19/1214:30 DATE COLLECTED: NA  
DATIME ANALYZD: 07/20/1211:13 07/20/1211:15 07/20/1211:17 DATE RECEIVED: 07/19/12  
PREP. BATCH: HGG021S HGG021S HGG021S  
CALIB. REF: M47G019032 M47G019032 M47G019032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.822	99	.833	.822	99	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G064  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.7  
DILTN FACTR: 0.998 1.01 1.00  
SAMPLE ID: SL-591-SA5C-SB-4.0-5.0  
CONTROL NO.: G064-08 G064-08M G064-08S  
LAB FILE ID: M47G019047 M47G019049 M47G019050  
DATIME EXTRCTD: 07/19/1214:30 07/19/1214:30 07/19/1214:30 DATE COLLECTED: 07/11/12  
DATIME ANALYZD: 07/20/1211:25 07/20/1211:29 07/20/1211:31 DATE RECEIVED: 07/11/12  
PREP. BATCH: HGG021S HGG021S HGG021S  
CALIB. REF: M47G019044 M47G019044 M47G019044

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.942	.943	100	.933	.944	101	1	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G064  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.7  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: SL-591-SA5C-SB-4.0-5.0  
CONTROL NO.: G064-08 G064-08A  
LAB FILE ID: M47G019047 M47G019046  
DATIME EXTRCTD: 07/19/1214:30 07/19/1214:30 DATE COLLECTED: 07/11/12  
DATIME ANALYZD: 07/20/1211:25 07/20/1211:23 DATE RECEIVED: 07/11/12  
PREP. BATCH: HGG021S HGG021S  
CALIB. REF: M47G019044 M47G019044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.931	.95	102	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12G064  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.7  
 DILUTION FACTOR: 0.998 4.99  
 SAMPLE ID: SL-591-SA5C-SB-4.0- SL-591-SA5C-SB-4.0-  
 EMAX SAMP ID: G064-08 G064-08J  
 LAB FILE ID: M47G019047 M47G019048  
 DATE EXTRACTED: 07/19/1214:30 07/19/1214:30 DATE COLLECTED: 07/11/12  
 DATE ANALYZED: 07/20/1211:25 07/20/1211:27 DATE RECEIVED: 07/11/12  
 PREP. BATCH: HGG021S HGG021S  
 CALIB. REF: M47G019044 M47G019044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12G064  
 =====

Matrix : WATER  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLG003WB	ND	1	NA	0.200	0.100	07/19/1212:18	NA	MG19004	MG19003	PLG003W	NA	NA
LCS1W	PLG003WL	0.953	1	NA	0.200	0.100	07/19/1212:32	NA	MG19005	MG19003	PLG003W	NA	NA
LCD1W	PLG003WC	0.969	1	NA	0.200	0.100	07/19/1212:46	NA	MG19006	MG19003	PLG003W	NA	NA
FB-071112	G064-01	ND	1	NA	0.200	0.100	07/19/1214:03	NA	MG19011	MG19003	PLG003W	07/11/1214:00	07/11/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLG003WB PLG003WL PLG003WC  
LAB FILE ID: MG19004 MG19005 MG19006  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 07/19/1212:18 07/19/1212:32 07/19/1212:46 DATE RECEIVED: NA  
PREP. BATCH: PLG003W PLG003W PLG003W  
CALIB. REF: MG19003 MG19003 MG19003

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	0.953	95	1.00	0.969	97	2	85-115	20

METHOD 6850  
PERCHLORATE

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G064  
=====

Matrix : SOIL  
Instrument ID : G0  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/kg)	DLF	MOIST	RL (ug/kg)	MDL (ug/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	PLG004SB	ND	1	NA	5.00	2.50	07/19/1214:46	07/16/1210:25	MG19014	MG19013	PLG004S	NA	07/16/12
LCS1S	PLG004SL	24.0	1	NA	5.00	2.50	07/19/1215:00	07/16/1210:25	MG19015	MG19013	PLG004S	NA	07/16/12
LCD1S	PLG004SC	24.2	1	NA	5.00	2.50	07/19/1215:14	07/16/1210:25	MG19016	MG19013	PLG004S	NA	07/16/12
SL-586-SA5C-SB-4.0-5.0	G064-03	ND	1	7.5	5.41	2.70	07/19/1219:20	07/16/1210:25	MG19030	MG19024	PLG004S	07/11/1208:40	07/11/12
SL-586-SA5C-SB-9.0-10.0	G064-05	ND	1	11.7	5.66	2.83	07/19/1219:34	07/16/1210:25	MG19031	MG19024	PLG004S	07/11/1208:45	07/11/12
SL-607-SA5C-SB-0.0-0.5	G064-10	ND	1	11.1	5.62	2.81	07/19/1219:48	07/16/1210:25	MG19032	MG19024	PLG004S	07/11/1211:00	07/11/12
SL-607-SA5C-SB-4.0-5.0	G064-11	ND	1	13.0	5.75	2.87	07/19/1220:02	07/16/1210:25	MG19033	MG19024	PLG004S	07/11/1211:05	07/11/12
SL-607-SA5C-SB-9.0-10.0	G064-13	ND	1	11.3	5.64	2.82	07/19/1220:16	07/16/1210:25	MG19034	MG19024	PLG004S	07/11/1211:10	07/11/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: METHOD 6850

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: PLG004SB PLG004SL PLG004SC  
LAB FILE ID: MG19014 MG19015 MG19016  
DATE EXTRACTED: 07/16/1210:25 07/16/1210:25 07/16/1210:25 DATE COLLECTED: NA  
DATE ANALYZED: 07/19/1214:46 07/19/1215:00 07/19/1215:14 DATE RECEIVED: 07/16/12  
PREP. BATCH: PLG004S PLG004S PLG004S  
CALIB. REF: MG19013 MG19013 MG19013

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	25.0	24.0	96	25.0	24.2	97	0	85-115	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12G064  
 =====

Matrix : WATER  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCG009WB	ND	1	NA	0.200	0.100	07/12/1210:35	NA	IG12003	IG12001	HCG009W	NA	NA
LCS1W	HCG009WL	1.86	1	NA	0.200	0.100	07/12/1211:16	NA	IG12007	IG12001	HCG009W	NA	NA
LCD1W	HCG009WC	1.92	1	NA	0.200	0.100	07/12/1211:37	NA	IG12009	IG12001	HCG009W	NA	NA
FB-071112	G064-01	ND	1	NA	0.200	0.100	07/12/1210:55	NA	IG12005	IG12001	HCG009W	07/11/1214:00	07/11/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G064  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCG009WB HCG009WL HCG009WC  
LAB FILE ID: IG12003 IG12007 IG12009  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 07/12/1210:35 07/12/1211:16 07/12/1211:37 DATE RECEIVED: NA  
PREP. BATCH: HCG009W HCG009W HCG009W  
CALIB. REF: IG12001 IG12001 IG12001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.86	93	2.00	1.92	96	3	80-120	20

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G064  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF	MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
FB-071112	G064-01	5.57	1	NA	NA	NA	07/11/1218:15	NA	12PHG009W01	12PHG009	PHG009W	07/11/1214:00	07/11/12
FB-071112DUP	G064-01D	5.59	1	NA	NA	NA	07/11/1218:16	NA	12PHG009W02	12PHG009	PHG009W	07/11/1214:00	07/11/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.: 12G064                                  DATE RECEIVED: 07/11/12  
SAMPLE ID: FB-071112DUP                         DATE EXTRACTED: NA  
CONTROL NO.: G064-01D                            DATE ANALYZED: 07/11/12 18:16

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	5.57	5.59	-0.02	+/-0.10

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G064  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST (pH Unit)	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-586-SA5C-SB-4.0-5.0	G064-03	7.81	1 NA	NA	NA	07/13/1216:58	07/13/1213:15	12PHG010S01	12PHG010	PHG010S	07/11/1208:40	07/11/12
SL-586-SA5C-SB-9.0-10.0	G064-05	7.79	1 NA	NA	NA	07/13/1217:00	07/13/1213:15	12PHG010S02	12PHG010	PHG010S	07/11/1208:45	07/11/12
SL-589-SA5C-SB-4.0-5.0	G064-07	7.06	1 NA	NA	NA	07/13/1217:01	07/13/1213:15	12PHG010S03	12PHG010	PHG010S	07/11/1210:10	07/11/12
SL-591-SA5C-SB-4.0-5.0	G064-08	7.10	1 NA	NA	NA	07/13/1217:02	07/13/1213:15	12PHG010S04	12PHG010	PHG010S	07/11/1209:50	07/11/12
SL-592-SA5C-SB-5.0-6.0	G064-09	7.20	1 NA	NA	NA	07/13/1217:04	07/13/1213:15	12PHG010S05	12PHG010	PHG010S	07/11/1207:35	07/11/12
SL-607-SA5C-SB-0.0-0.5	G064-10	8.24	1 NA	NA	NA	07/13/1217:06	07/13/1213:15	12PHG010S06	12PHG010	PHG010S	07/11/1211:00	07/11/12
SL-607-SA5C-SB-4.0-5.0	G064-11	8.27	1 NA	NA	NA	07/13/1217:07	07/13/1213:15	12PHG010S07	12PHG010	PHG010S	07/11/1211:05	07/11/12
SL-607-SA5C-SB-9.0-10.0	G064-13	8.46	1 NA	NA	NA	07/13/1217:08	07/13/1213:15	12PHG010S08	12PHG010	PHG010S	07/11/1211:10	07/11/12

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/19/12 04:14
Sample ID    : TB-071212                        Date Analyzed: 07/19/12 04:14
Lab Samp ID  : G081-02                          Dilution Factor: 1
Lab File ID  : RGR275                           Matrix          : WATER
Ext Btch ID  : VOF3G12                          % Moisture     : NA
Calib. Ref.  : RFR007                           Instrument ID   : F3
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.5	10.00	105	80-120
4-BROMOFLUOROBENZENE	9.64	10.00	96.4	86-115
TOLUENE-D8	9.31	10.00	93.1	88-110
DIBROMOFLUOROMETHANE	10.3	10.00	103	86-118

METHOD 5030B/8260B  
VOLATILE ORGANICS BY GC/MS

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE - 3                   Date Received: 07/18/12
Batch No.    : 12G081                           Date Extracted: 07/18/12 23:28
Sample ID    : MBLK1W                           Date Analyzed: 07/18/12 23:28
Lab Samp ID  : VOF3G12B                         Dilution Factor: 1
Lab File ID  : RGR267                           Matrix          : WATER
Ext Btch ID  : VOF3G12                           % Moisture      : NA
Calib. Ref.  : RFR007                           Instrument ID    : F3
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,1-DICHLOROPROPENE	ND	1.0	0.20
1,2,3-TRICHLOROBENZENE	ND	1.0	0.30
1,2,3-TRICHLOROPROPANE	ND	2.0	0.50
1,2,4-TRICHLOROBENZENE	ND	1.0	0.30
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,2-DIBROMO-3-CHLOROPROPANE	ND	2.0	0.50
1,2-DICHLOROBENZENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
1,2-DICHLOROPROPANE	ND	1.0	0.20
1,2-DIBROMOETHANE (EDB)	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
1,3-DICHLOROBENZENE	ND	1.0	0.20
1,3-DICHLOROPROPANE	ND	1.0	0.20
1,4-DICHLOROBENZENE	ND	1.0	0.20
2,2-DICHLOROPROPANE	ND	1.0	0.20
2-CHLOROTOLUENE	ND	1.0	0.20
4-CHLOROTOLUENE	ND	1.0	0.20
BENZENE	ND	1.0	0.20
BROMOBENZENE	ND	1.0	0.20
BROMOCHLOROMETHANE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
BROMOMETHANE	ND	1.0	0.30
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
CIS-1,3-DICHLOROPROPENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
DIBROMOMETHANE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ETHYLBENZENE	ND	1.0	0.20
HEXACHLOROBUTADIENE	ND	1.0	0.30
ISOPROPYL BENZENE	ND	1.0	0.20
M,P-XYLENE	ND	2.0	0.40
METHYL TERT-BUTYL ETHER (MTBE)	ND	1.0	0.20
METHYLENE CHLORIDE	ND	1.0	0.50
N-BUTYLBENZENE	ND	1.0	0.20
N-PROPYLBENZENE	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
P-ISOPROPYLTOLUENE	ND	1.0	0.20
SEC-BUTYLBENZENE	ND	1.0	0.20
STYRENE	ND	1.0	0.20
TERT-BUTYLBENZENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRANS-1,3-DICHLOROPROPENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
TRICHLOROFLUOROMETHANE	ND	1.0	0.30
VINYL CHLORIDE	ND	1.0	0.20
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	4.0
FREON113	ND	1.0	0.30
2-CHLOROETHYL VINYL ETHER	ND	2.0	1.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	1.0	0.20
CHLOROTRIFLUOROETHYLENE	ND	1.0	0.20
1-CHLOROHEXANE	ND	1.0	0.20
CARBON DISULFIDE	ND	1.0	0.50
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	1.0	0.20
IODOMETHANE	ND	1.0	0.30
TERTIARY AMYL METHYL ETHER (TAME)	ND	1.0	0.20
TERTIARY BUTYL ALCOHOL	ND	10	5.0
VINYL ACETATE	ND	1.0	0.50
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.35	10.00	93.5	80-120
4-BROMOFLUOROBENZENE	9.68	10.00	96.8	86-115
TOLUENE-D8	9.35	10.00	93.5	88-110
DIBROMOFLUOROMETHANE	9.83	10.00	98.3	86-118

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VOF3G12B VOF3G12L VOF3G12C  
LAB FILE ID: RGR267 RGR264 RGR265  
DATE EXTRACTED: 07/18/1223:28 07/18/1221:42 07/18/1222:17 DATE COLLECTED: NA  
DATE ANALYZED: 07/18/1223:28 07/18/1221:42 07/18/1222:17 DATE RECEIVED: 07/18/12  
PREP. BATCH: VOF3G12 VOF3G12 VOF3G12  
CALIB. REF: RFR007 RFR007 RFR007

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	10.0	11.7	117	10.0	10.6	106	10	70-130	30
1,1,1-Trichloroethane	ND	10.0	11.4	114	10.0	10.5	105	9	70-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	11.9	119	10.0	10.5	105	12	70-130	30
1,1,2-Trichloroethane	ND	10.0	11.9	119	10.0	10.8	108	10	70-130	30
1,1-Dichloroethane	ND	10.0	10.8	108	10.0	9.89	99	9	70-130	30
1,1-Dichloroethene	ND	10.0	9.72	97	10.0	9.07	91	7	60-130	30
1,1-Dichloropropene	ND	10.0	10.6	106	10.0	9.82	98	8	70-140	30
1,2,3-Trichlorobenzene	ND	10.0	8.76	88	10.0	8.13	81	7	60-130	30
1,2,3-Trichloropropane	ND	10.0	12.5	125	10.0	11.3	113	10	70-140	30
1,2,4-Trichlorobenzene	ND	10.0	9.61	96	10.0	8.67	87	10	60-140	30
1,2,4-Trimethylbenzene	ND	10.0	10.4	104	10.0	9.44	94	10	70-130	30
1,2-Dibromo-3-chloropropane	ND	10.0	13.2	132*	10.0	12.0	120	9	60-130	30
1,2-Dichlorobenzene	ND	10.0	11.1	111	10.0	10.4	104	6	70-130	30
1,2-Dichloroethane	ND	10.0	11.4	114	10.0	10.3	103	10	70-130	30
1,2-Dichloropropane	ND	10.0	11.0	110	10.0	9.89	99	11	70-130	30
1,2-Dibromoethane (EDB)	ND	10.0	12.2	122	10.0	11.1	111	10	70-140	30
1,3,5-Trimethylbenzene	ND	10.0	10.5	105	10.0	9.67	97	8	70-130	30
1,3-Dichlorobenzene	ND	10.0	10.7	107	10.0	10.2	102	5	70-130	30
1,3-Dichloropropane	ND	10.0	11.8	118	10.0	10.6	106	11	70-130	30
1,4-Dichlorobenzene	ND	10.0	11.2	112	10.0	10.5	105	6	70-130	30
2,2-Dichloropropane	ND	10.0	9.98	100	10.0	9.09	91	9	50-140	30
2-Chlorotoluene	ND	10.0	10.7	107	10.0	9.82	98	9	70-130	30
4-Chlorotoluene	ND	10.0	10.7	107	10.0	9.79	98	9	70-130	30
Benzene	ND	10.0	10.4	104	10.0	9.50	95	9	70-130	30
Bromobenzene	ND	10.0	12.0	120	10.0	10.9	109	9	70-130	30
Bromochloromethane	ND	10.0	11.0	110	10.0	9.86	99	11	70-130	30
Bromodichloromethane	ND	10.0	11.4	114	10.0	10.3	103	10	70-130	30
Bromoform	ND	10.0	13.1	131	10.0	11.9	119	9	60-140	30
Bromomethane	ND	10.0	10.4	104	10.0	10.2	102	3	50-140	30
Carbon Tetrachloride	ND	10.0	10.9	109	10.0	9.92	99	9	70-130	30
Chlorobenzene	ND	10.0	11.2	112	10.0	10.2	102	9	70-120	30
Chloroethane	ND	10.0	9.72	97	10.0	9.03	90	7	70-140	30
Chloroform	ND	10.0	11.0	110	10.0	9.86	99	11	70-130	30
Chloromethane	ND	10.0	8.75	87	10.0	8.46	85	3	60-130	30
cis-1,2-Dichloroethene	ND	10.0	10.9	109	10.0	9.98	100	9	70-130	30
cis-1,3-Dichloropropene	ND	10.0	10.9	109	10.0	9.94	99	9	70-130	30
Dibromochloromethane	ND	10.0	12.5	125	10.0	11.3	113	10	70-130	30
Dibromomethane	ND	10.0	12.0	120	10.0	10.8	108	10	70-140	30
Dichlorodifluoromethane	ND	10.0	9.82	98	10.0	9.13	91	7	50-140	30
Ethylbenzene	ND	10.0	10.8	108	10.0	10.0	100	8	70-130	30
Hexachlorobutadiene	ND	10.0	8.63	86	10.0	7.79	78	10	60-140	30
Isopropyl Benzene	ND	10.0	10.8	108	10.0	9.87	99	9	70-150	30
m,p-Xylene	ND	20.0	21.0	105	20.0	19.5	97	7	70-130	30
Methyl tert-butyl Ether (MTBE)	ND	10.0	13.6	136	10.0	12.2	122	11	70-140	30
Methylene Chloride	ND	10.0	10.4	104	10.0	9.46	95	9	70-130	30
n-Butylbenzene	ND	10.0	9.79	98	10.0	9.19	92	6	60-130	30
n-Propylbenzene	ND	10.0	10.4	104	10.0	9.62	96	8	70-140	30
o-Xylene	ND	10.0	10.6	106	10.0	9.97	100	7	70-130	30

p-Isopropyltoluene	ND	10.0	10.3	103	10.0	9.63	96	7	70-140	30
Sec-Butylbenzene	ND	10.0	9.94	99	10.0	9.32	93	6	70-130	30
Styrene	ND	10.0	11.1	111	10.0	10.3	103	7	70-130	30
Tert-Butylbenzene	ND	10.0	10.7	107	10.0	9.89	99	7	70-130	30
Tetrachloroethene	ND	10.0	10.9	109	10.0	10.1	101	8	70-130	30
Toluene	ND	10.0	10.7	107	10.0	9.87	99	8	70-130	30
Trans-1,2-Dichloroethene	ND	10.0	10.5	105	10.0	9.59	96	9	70-130	30
Trans-1,3-Dichloropropene	ND	10.0	11.2	112	10.0	10.2	102	10	70-140	30
Trichloroethene	ND	10.0	11.1	111	10.0	10.1	101	9	70-130	30
Trichlorofluoromethane	ND	10.0	10.5	105	10.0	9.81	98	7	70-140	30
Vinyl Chloride	ND	10.0	9.13	91	10.0	8.53	85	7	60-150	30
Acetone	ND	50.0	59.1	118	50.0	52.8	106	11	50-150	30
2-Butanone (MEK)	ND	50.0	64.3	129	50.0	57.7	115	11	60-140	30
2-Hexanone	ND	50.0	62.8	126	50.0	57.0	114	10	70-140	30
4-Methyl-2-Pentanone (MIBK)	ND	50.0	63.1	126	50.0	57.0	114	10	60-140	30
Freon113	ND	10.0	10.8	108	10.0	10.2	102	6	70-140	30
2-Chloroethyl Vinyl Ether	ND	10.0	9.83	98	10.0	9.11	91	8	30-160	30
2-Chloro-1,1,1-trifluoroethane	ND	10.0	10.1	101	10.0	9.84	98	3	50-150	30
Chlorotrifluoroethylene	ND	10.0	7.54	75	10.0	7.36	74	3	50-150	30
1-Chlorohexane	ND	10.0	10.4	104	10.0	9.79	98	6	50-150	30
Carbon Disulfide	ND	10.0	10.6	106	10.0	10.1	101	5	40-150	30
Ethyl tertiary butyl Ether (ETBE)	ND	10.0	13.8	138	10.0	12.5	125	10	40-160	30
Iodomethane	ND	10.0	11.2	112	10.0	10.4	104	8	40-150	30
Tertiary Amyl Methyl Ether (TAME)	ND	10.0	14.5	145	10.0	13.0	130	11	50-150	30
Tertiary butyl Alcohol	ND	50.0	56.1	112	50.0	52.4	105	7	20-160	30
Vinyl Acetate	ND	10.0	11.5	115	10.0	10.5	105	9	10-160	30
Acrolein	ND	50.0	44.3	89	50.0	39.2	78	12	30-160	30
Acrylonitrile	ND	50.0	57.7	115	50.0	52.4	105	10	50-150	30
Diisopropyl Ether	ND	10.0	11.4	114	10.0	10.3	103	11	50-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	10.0	10.3	103	10.0	10.1	101	80-120
4-Bromofluorobenzene	10.0	9.64	96	10.0	9.47	95	86-115
Toluene-d8	10.0	9.05	90	10.0	8.89	89	88-110
Dibromofluoromethane	10.0	10.2	102	10.0	10.0	100	86-118

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/14/12 03:22
Sample ID    : SL-502-SA5B-SB-9.5              Date Analyzed: 07/14/12 03:22
Lab Samp ID  : G081-12                          Dilution Factor: 1.08
Lab File ID  : RGB240                            Matrix          : SOIL
Ext Btch ID  : VO03G14                          % Moisture     : 14.0
Calib. Ref.  : RFB141                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	6.3	1.3
1,1,1-TRICHLOROETHANE	ND	6.3	1.3
1,1,2,2-TETRACHLOROETHANE	ND	6.3	1.3
1,1,2-TRICHLOROETHANE	ND	6.3	1.3
1,1-DICHLOROETHANE	ND	6.3	1.3
1,1-DICHLOROETHENE	ND	6.3	1.3
1,1-DICHLOROPROPENE	ND	6.3	1.3
1,2,3-TRICHLOROBENZENE	ND	6.3	2.5
1,2,3-TRICHLOROPROPANE	ND	6.3	2.5
1,2,4-TRICHLOROBENZENE	ND	6.3	2.5
1,2,4-TRIMETHYLBENZENE	ND	6.3	1.3
1,2-DIBROMO-3-CHLOROPROPANE	ND	6.3	2.5
1,2-DICHLOROBENZENE	ND	6.3	1.3
1,2-DICHLOROETHANE	ND	6.3	1.3
1,2-DICHLOROPROPANE	ND	6.3	1.3
1,2-DIBROMOETHANE (EDB)	ND	6.3	1.3
1,3,5-TRIMETHYLBENZENE	ND	6.3	1.3
1,3-DICHLOROBENZENE	ND	6.3	1.3
1,3-DICHLOROPROPANE	ND	6.3	1.3
1,4-DICHLOROBENZENE	ND	6.3	1.3
2,2-DICHLOROPROPANE	ND	6.3	2.5
2-CHLOROTOLUENE	ND	6.3	1.3
4-CHLOROTOLUENE	ND	6.3	1.3
BENZENE	ND	6.3	1.3
BROMOBENZENE	ND	6.3	1.3
BROMOCHLOROMETHANE	ND	6.3	1.3
BROMODICHLOROMETHANE	ND	6.3	1.3
BROMOFORM	ND	6.3	2.5
BROMOMETHANE	ND	6.3	2.5
CARBON TETRACHLORIDE	ND	6.3	1.3
CHLOROBENZENE	ND	6.3	1.3
CHLOROETHANE	ND	6.3	2.5
CHLOROFORM	ND	6.3	1.3
CHLOROMETHANE	ND	6.3	2.5
CIS-1,2-DICHLOROETHENE	ND	6.3	1.3
CIS-1,3-DICHLOROPROPENE	ND	6.3	1.3
DIBROMOCHLOROMETHANE	ND	6.3	1.3
DIBROMOMETHANE	ND	6.3	1.3
DICHLORODIFLUOROMETHANE	ND	6.3	2.5
ETHYLBENZENE	ND	6.3	1.3
HEXACHLOROBUTADIENE	ND	6.3	2.5
ISOPROPYL BENZENE	ND	6.3	1.3
M,P-XYLENE	ND	6.3	2.5
METHYL TERT-BUTYL ETHER (MTBE)	ND	6.3	1.3
METHYLENE CHLORIDE	ND	6.3	2.5
N-BUTYLBENZENE	ND	6.3	1.3
N-PROPYLBENZENE	ND	6.3	1.3
O-XYLENE	ND	6.3	1.3
P-ISOPROPYLTOLUENE	ND	6.3	1.3
SEC-BUTYLBENZENE	ND	6.3	1.3
STYRENE	ND	6.3	1.3
TERT-BUTYLBENZENE	ND	6.3	1.3
TETRACHLOROETHENE	ND	6.3	1.3
TOLUENE	ND	6.3	1.3
TRANS-1,2-DICHLOROETHENE	ND	6.3	1.3
TRANS-1,3-DICHLOROPROPENE	ND	6.3	1.3
TRICHLOROETHENE	ND	6.3	1.3
TRICHLOROFLUOROMETHANE	ND	6.3	2.5
VINYL CHLORIDE	ND	6.3	2.5
ACETONE	7.1J	13	6.3
2-BUTANONE (MEK)	ND	13	6.3
2-HEXANONE	ND	13	6.3
4-METHYL-2-PENTANONE (MIBK)	ND	13	6.3
FREON113	ND	6.3	2.5
2-CHLOROETHYL VINYL ETHER	ND	6.3	2.5
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	6.3	2.5
CHLOROTRIFLUOROETHYLENE	ND	6.3	2.5
1-CHLOROHEXANE	ND	6.3	1.3
CARBON DISULFIDE	ND	6.3	2.5
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	6.3	1.3
IODOMETHANE	ND	6.3	2.5
TERTIARY AMYL METHYL ETHER (TAME)	ND	6.3	1.3
TERTIARY BUTYL ALCOHOL	ND	25	13
VINYL ACETATE	ND	6.3	2.5
ACROLEIN	ND	13	6.3
ACRYLONITRILE	ND	13	6.3
DIISOPROPYL ETHER	ND	13	6.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
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1, 2-DICHLOROETHANE-D4	60.2	62.79	95.8	80-120
4-BROMOFLUOROBENZENE	65.8	62.79	105	74-121
TOLUENE-D8	63.1	62.79	101	81-117
DIBROMOFLUOROMETHANE	60.8	62.79	96.8	80-120

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE - 3                   Date Received: 07/13/12
Batch No.    : 12G081                           Date Extracted: 07/13/12 23:12
Sample ID    : MBLK1S                           Date Analyzed: 07/13/12 23:12
Lab Samp ID  : VO03G14B                         Dilution Factor: 1
Lab File ID  : RGB233                           Matrix          : SOIL
Ext Btch ID  : VO03G14                          % Moisture     : NA
Calib. Ref.  : RFB141                           Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,2-DIBROMOETHANE (EDB)	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-CHLOROTOLUENE	ND	5.0	1.0
4-CHLOROTOLUENE	ND	5.0	1.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DIBROMOMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
HEXACHLOROBUTADIENE	ND	5.0	2.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENE	ND	5.0	2.0
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.0	1.0
METHYLENE CHLORIDE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	5.0
FREON113	ND	5.0	2.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	2.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.0	2.0
CHLOROTRIFLUOROETHYLENE	ND	5.0	2.0
1-CHLOROHEXANE	ND	5.0	1.0
CARBON DISULFIDE	ND	5.0	2.0
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.0	1.0
IODOMETHANE	ND	5.0	2.0
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.0	1.0
TERTIARY BUTYL ALCOHOL	ND	20	10
VINYL ACETATE	ND	5.0	2.0
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	45.7	50.00	91.4	80-120
4-BROMOFLUOROBENZENE	52.4	50.00	105	74-121
TOLUENE-D8	49.8	50.00	99.6	81-117
DIBROMOFLUOROMETHANE	48.3	50.00	96.6	80-120

METHOD 5035/8260B  
VOLATILE ORGANICS BY GC/MS

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Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE - 3                   Date Received: 07/13/12
Batch No.    : 12G081                           Date Extracted: 07/13/12 23:47
Sample ID    : MBLK2S                           Date Analyzed: 07/13/12 23:47
Lab Samp ID  : VPG010SB                         Dilution Factor: 1
Lab File ID  : RGB234                           Matrix          : SOIL
Ext Btch ID  : VO03G14                          % Moisture     : NA
Calib. Ref.  : RFB141                          Instrument ID   : T-003
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,1-DICHLOROPROPENE	ND	5.0	1.0
1,2,3-TRICHLOROBENZENE	ND	5.0	2.0
1,2,3-TRICHLOROPROPANE	ND	5.0	2.0
1,2,4-TRICHLOROBENZENE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,2-DIBROMO-3-CHLOROPROPANE	ND	5.0	2.0
1,2-DICHLOROBENZENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
1,2-DICHLOROPROPANE	ND	5.0	1.0
1,2-DIBROMOETHANE (EDB)	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
1,3-DICHLOROBENZENE	ND	5.0	1.0
1,3-DICHLOROPROPANE	ND	5.0	1.0
1,4-DICHLOROBENZENE	ND	5.0	1.0
2,2-DICHLOROPROPANE	ND	5.0	2.0
2-CHLOROTOLUENE	ND	5.0	1.0
4-CHLOROTOLUENE	ND	5.0	1.0
BENZENE	ND	5.0	1.0
BROMOBENZENE	ND	5.0	1.0
BROMOCHLOROMETHANE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
BROMOMETHANE	ND	5.0	2.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	5.0	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
CIS-1,3-DICHLOROPROPENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
DIBROMOMETHANE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	5.0	2.0
ETHYLBENZENE	ND	5.0	1.0
HEXACHLOROBUTADIENE	ND	5.0	2.0
ISOPROPYL BENZENE	ND	5.0	1.0
M,P-XYLENE	ND	5.0	2.0
METHYL TERT-BUTYL ETHER (MTBE)	ND	5.0	1.0
METHYLENE CHLORIDE	ND	5.0	2.0
N-BUTYLBENZENE	ND	5.0	1.0
N-PROPYLBENZENE	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
P-ISOPROPYLTOLUENE	ND	5.0	1.0
SEC-BUTYLBENZENE	ND	5.0	1.0
STYRENE	ND	5.0	1.0
TERT-BUTYLBENZENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRANS-1,3-DICHLOROPROPENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
TRICHLOROFLUOROMETHANE	ND	5.0	2.0
VINYL CHLORIDE	ND	5.0	2.0
ACETONE	ND	10	5.0
2-BUTANONE (MEK)	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE (MIBK)	ND	10	5.0
FREON113	ND	5.0	2.0
2-CHLOROETHYL VINYL ETHER	ND	5.0	2.0
2-CHLORO-1,1,1-TRIFLUOROETHANE	ND	5.0	2.0
CHLOROTRIFLUOROETHYLENE	ND	5.0	2.0
1-CHLOROHEXANE	ND	5.0	1.0
CARBON DISULFIDE	ND	5.0	2.0
ETHYL TERTIARY BUTYL ETHER (ETBE)	ND	5.0	1.0
IODOMETHANE	ND	5.0	2.0
TERTIARY AMYL METHYL ETHER (TAME)	ND	5.0	1.0
TERTIARY BUTYL ALCOHOL	ND	20	10
VINYL ACETATE	ND	5.0	2.0
ACROLEIN	ND	10	5.0
ACRYLONITRILE	ND	10	5.0
DIISOPROPYL ETHER	ND	10	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1, 2-DICHLOROETHANE-D4	46.8	50.00	93.6	80-120
4-BROMOFLUOROBENZENE	51.8	50.00	104	74-121
TOLUENE-D8	50.1	50.00	100	81-117
DIBROMOFLUOROMETHANE	48.6	50.00	97.1	80-120

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: METHOD 5035/8260B

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: VO03G14B VO03G14L VO03G14C  
LAB FILE ID: RGB233 RGB231 RGB232  
DATE EXTRACTED: 07/13/1223:12 07/13/1222:02 07/13/1222:38 DATE COLLECTED: NA  
DATE ANALYZED: 07/13/1223:12 07/13/1222:02 07/13/1222:38 DATE RECEIVED: 07/13/12  
PREP. BATCH: VO03G14 VO03G14 VO03G14  
CALIB. REF: RFB141 RFB141 RFB141

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
1,1,1,2-Tetrachloroethane	ND	50.0	50.9	102	50.0	55.0	110	8	70-130	50
1,1,1-Trichloroethane	ND	50.0	51.4	103	50.0	54.6	109	6	60-130	50
1,1,2,2-Tetrachloroethane	ND	50.0	48.6	97	50.0	51.9	104	7	70-150	50
1,1,2-Trichloroethane	ND	50.0	51.0	102	50.0	55.9	112	9	70-140	50
1,1-Dichloroethane	ND	50.0	54.7	109	50.0	57.5	115	5	70-140	50
1,1-Dichloroethene	ND	50.0	50.1	100	50.0	51.8	104	3	60-130	50
1,1-Dichloropropene	ND	50.0	49.2	98	50.0	53.4	107	8	70-130	50
1,2,3-Trichlorobenzene	ND	50.0	44.1	88	50.0	46.8	94	6	60-150	50
1,2,3-Trichloropropane	ND	50.0	46.9	94	50.0	50.2	100	7	60-150	50
1,2,4-Trichlorobenzene	ND	50.0	45.4	91	50.0	47.9	96	5	60-140	50
1,2,4-Trimethylbenzene	ND	50.0	45.5	91	50.0	48.6	97	7	70-130	50
1,2-Dibromo-3-chloropropane	ND	50.0	50.7	101	50.0	54.1	108	6	50-150	50
1,2-Dichlorobenzene	ND	50.0	48.7	97	50.0	52.0	104	7	70-130	50
1,2-Dichloroethane	ND	50.0	46.6	93	50.0	50.2	100	8	60-140	50
1,2-Dichloropropane	ND	50.0	52.1	104	50.0	57.3	115	9	70-130	50
1,2-Dibromoethane (EDB)	ND	50.0	50.3	101	50.0	54.8	110	9	50-150	50
1,3,5-Trimethylbenzene	ND	50.0	45.7	91	50.0	48.5	97	6	70-130	50
1,3-Dichlorobenzene	ND	50.0	47.0	94	50.0	50.4	101	7	70-130	50
1,3-Dichloropropane	ND	50.0	51.8	104	50.0	56.7	113	9	70-140	50
1,4-Dichlorobenzene	ND	50.0	47.3	95	50.0	51.0	102	7	70-130	50
2,2-Dichloropropane	ND	50.0	50.4	101	50.0	51.7	103	2	40-140	50
2-Chlorotoluene	ND	50.0	46.2	92	50.0	48.9	98	6	70-130	50
4-Chlorotoluene	ND	50.0	45.8	92	50.0	49.0	98	7	70-130	50
Benzene	ND	50.0	50.3	101	50.0	54.4	109	8	70-130	50
Bromobenzene	ND	50.0	47.2	94	50.0	50.2	100	6	70-130	50
Bromochloromethane	ND	50.0	56.6	113	50.0	60.3	121	6	60-150	50
Bromodichloromethane	ND	50.0	50.1	100	50.0	54.3	109	8	60-130	50
Bromoform	ND	50.0	47.4	95	50.0	51.0	102	7	60-130	50
Bromomethane	ND	50.0	52.7	105	50.0	57.9	116	9	40-160	50
Carbon Tetrachloride	ND	50.0	45.8	92	50.0	49.4	99	8	50-130	50
Chlorobenzene	ND	50.0	49.7	99	50.0	54.0	108	8	70-130	50
Chloroethane	ND	50.0	46.9	94	50.0	49.9	100	6	60-150	50
Chloroform	ND	50.0	53.0	106	50.0	56.0	112	5	70-130	50
Chloromethane	ND	50.0	48.4	97	50.0	52.8	106	9	50-150	50
cis-1,2-Dichloroethene	ND	50.0	53.2	106	50.0	57.6	115	8	70-130	50
cis-1,3-Dichloropropene	ND	50.0	50.6	101	50.0	55.1	110	9	60-130	50
Dibromochloromethane	ND	50.0	50.9	102	50.0	55.6	111	9	70-130	50
Dibromomethane	ND	50.0	50.2	100	50.0	54.3	109	8	70-130	50
Dichlorodifluoromethane	ND	50.0	49.2	98	50.0	51.5	103	5	50-130	50
Ethylbenzene	ND	50.0	49.6	99	50.0	53.7	107	8	70-130	50
Hexachlorobutadiene	ND	50.0	44.9	90	50.0	47.8	96	6	50-140	50
Isopropyl Benzene	ND	50.0	46.1	92	50.0	49.2	98	7	70-140	50
m,p-Xylene	ND	100	95.5	96	100	103	103	8	70-140	50
Methyl tert-butyl Ether (MTBE)	ND	50.0	53.4	107	50.0	55.3	111	4	60-150	50
Methylene Chloride	ND	50.0	56.5	113	50.0	60.0	120	6	70-130	50
n-Butylbenzene	ND	50.0	47.0	94	50.0	50.0	100	6	50-150	50
n-Propylbenzene	ND	50.0	46.6	93	50.0	49.6	99	6	70-130	50
o-Xylene	ND	50.0	50.1	100	50.0	54.4	109	8	70-130	50

p-Isopropyltoluene	ND	50.0	46.0	92	50.0	48.7	97	6	60-140	50
Sec-Butylbenzene	ND	50.0	45.5	91	50.0	48.5	97	6	70-130	50
Styrene	ND	50.0	51.4	103	50.0	56.0	112	9	60-140	50
Tert-Butylbenzene	ND	50.0	47.2	94	50.0	50.1	100	6	70-130	50
Tetrachloroethene	ND	50.0	47.4	95	50.0	51.1	102	8	70-130	50
Toluene	ND	50.0	49.7	99	50.0	54.1	108	9	70-130	50
Trans-1,2-Dichloroethene	ND	50.0	51.6	103	50.0	55.3	111	7	70-130	50
Trans-1,3-Dichloropropene	ND	50.0	49.8	100	50.0	54.5	109	9	60-140	50
Trichloroethene	ND	50.0	49.3	99	50.0	54.2	108	9	70-130	50
Trichlorofluoromethane	ND	50.0	45.4	91	50.0	48.0	96	6	70-140	50
Vinyl Chloride	ND	50.0	45.6	91	50.0	49.2	98	8	60-150	50
Acetone	ND	250	263	105	250	284	114	8	40-160	50
2-Butanone (MEK)	ND	250	265	106	250	288	115	8	50-160	50
2-Hexanone	ND	250	256	103	250	286	114	11	60-160	50
4-Methyl-2-Pentanone (MIBK)	ND	250	246	98	250	276	110	11	70-160	50
Freon113	ND	50.0	50.9	102	50.0	54.8	110	7	50-140	50
2-Chloroethyl Vinyl Ether	ND	50.0	45.5	91	50.0	50.4	101	10	50-150	50
2-Chloro-1,1,1-trifluoroethane	ND	50.0	44.6	89	50.0	45.3	91	2	50-150	50
Chlorotrifluoroethylene	ND	50.0	54.7	109	50.0	56.7	113	4	50-150	50
1-Chlorohexane	ND	50.0	50.3	101	50.0	54.3	109	8	60-130	50
Carbon Disulfide	ND	50.0	46.4	93	50.0	47.8	96	3	40-140	50
Ethyl tertiary butyl Ether (ETBE)	ND	50.0	53.4	107	50.0	57.0	114	7	40-160	50
Iodomethane	ND	50.0	51.2	102	50.0	54.2	108	6	40-150	50
Tertiary Amyl Methyl Ether (TAME)	ND	50.0	53.2	106	50.0	56.8	114	7	50-150	50
Tertiary butyl Alcohol	ND	250	235	94	250	256	102	8	50-150	50
Vinyl Acetate	ND	50.0	48.7	97	50.0	51.5	103	6	10-160	50
Acrolein	ND	250	231	92	250	239	96	4	45-165	50
Acrylonitrile	ND	250	279	112	250	299	119	7	50-150	50
Diisopropyl Ether	ND	50.0	56.5	113	50.0	59.7	119	6	50-150	50

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SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
1,2-Dichloroethane-d4	50.0	45.6	91	50.0	44.7	89	80-120
4-Bromofluorobenzene	50.0	52.0	104	50.0	51.8	104	74-121
Toluene-d8	50.0	50.2	100	50.0	51.1	102	81-117
Dibromofluoromethane	50.0	48.6	97	50.0	47.7	95	80-120

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                          Date Extracted: 07/16/12 14:00
Sample ID    : EB-071212                       Date Analyzed: 07/18/12 23:15
Lab Samp ID  : G081-01                         Dilution Factor: 1.06
Lab File ID  : RGJ173                          Matrix          : WATER
Ext Btch ID  : SVG022W                        % Moisture     : NA
Calib. Ref.  : RGJ007                          Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.21	0.11
ACENAPHTHYLENE	ND	0.21	0.11
ANTHRACENE	ND	0.21	0.11
BENZO (A) ANTHRACENE	ND	0.21	0.11
BENZO (A) PYRENE	ND	0.21	0.11
BENZO (B) FLUORANTHENE	ND	0.21	0.11
BENZO (K) FLUORANTHENE	ND	0.21	0.11
BENZO (G, H, I) PERYLENE	ND	0.21	0.11
CHRYSENE	ND	0.21	0.11
DIBENZO (A, H) ANTHRACENE	ND	0.21	0.11
FLUORANTHENE	ND	0.21	0.11
FLUORENE	ND	0.21	0.11
INDENO (1, 2, 3-CD) PYRENE	ND	0.21	0.11
NAPHTHALENE	ND	0.21	0.11
PHENANTHRENE	ND	0.21	0.11
2-METHYLNAPHTHALENE	ND	0.21	0.11
1-METHYLNAPHTHALENE	ND	0.21	0.11
N-NITROSODIMETHYLAMINE	ND	1.1	0.11
PYRENE	ND	0.21	0.11
AZOBENZENE	ND	1.1	0.11
BENZO (E) PYRENE	ND	0.21	0.11
BIPHENYL	ND	2.1	0.53
MORPHOLINE (1)	ND	420	420

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	16.8	21.20	79.3	40-130
2-FLUOROBIPHENYL	14.4	21.20	68.0	45-130
TERPHENYL-D14	17.5	21.20	82.7	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE - 3                   Date Received: 07/16/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 14:00
Sample ID    : MBLK1W                            Date Analyzed: 07/18/12 18:40
Lab Samp ID  : SVG022WB                         Dilution Factor: 1
Lab File ID  : RGJ159                           Matrix          : WATER
Ext Btch ID  : SVG022W                          % Moisture     : NA
Calib. Ref.  : RGJ007                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50
MORPHOLINE (1)	ND	400	400

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	12.8	20.00	63.8	40-130
2-FLUOROBIPHENYL	11.0	20.00	55.1	45-130
TERPHENYL-D14	17.7	20.00	88.7	45-130

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: METHOD 3520C/8270C SIM

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MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVG022WB SVG022WL SVG022WC  
LAB FILE ID: RGJ159 RGJ160 RGJ161  
DATE EXTRACTED: 07/16/1214:00 07/16/1214:00 07/16/1214:00 DATE COLLECTED: NA  
DATE ANALYZED: 07/18/1218:40 07/18/1218:59 07/18/1219:19 DATE RECEIVED: 07/16/12  
PREP. BATCH: SVG022W SVG022W SVG022W  
CALIB. REF: RGJ007 RGJ007 RGJ007

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	27.5	69	40.0	25.8	64	6	20-130	30
Acenaphthylene	ND	40.0	29.8	75	40.0	28.0	70	6	30-140	30
Anthracene	ND	40.0	29.3	73	40.0	29.0	72	1	40-130	30
Benzo (a) anthracene	ND	40.0	32.6	82	40.0	32.5	81	1	50-130	30
Benzo (a) pyrene	ND	40.0	32.0	80	40.0	31.7	79	1	50-130	30
Benzo (b) fluoranthene	ND	40.0	33.2	83	40.0	34.0	85	2	50-130	30
Benzo (k) fluoranthene	ND	40.0	31.9	80	40.0	30.7	77	4	50-130	30
Benzo (g, h, i) perylene	ND	40.0	33.1	83	40.0	32.9	82	1	30-150	30
Chrysene	ND	40.0	32.3	81	40.0	32.2	81	0	50-130	30
Dibenzo (a, h) anthracene	ND	40.0	32.3	81	40.0	32.1	80	1	40-140	30
Fluoranthene	ND	40.0	31.0	77	40.0	31.5	79	2	40-130	30
Fluorene	ND	40.0	30.2	75	40.0	28.5	71	6	10-150	30
Indeno (1, 2, 3-cd) pyrene	ND	40.0	33.7	84	40.0	33.4	84	1	40-130	30
Naphthalene	ND	40.0	26.1	65	40.0	25.6	64	2	20-130	30
Phenanthrene	ND	40.0	30.2	75	40.0	29.9	75	1	40-130	30
2-Methylnaphthalene	ND	40.0	27.1	68	40.0	26.3	66	3	30-150	30
1-Methylnaphthalene	ND	40.0	26.8	67	40.0	25.9	65	3	40-150	30
N-Nitrosodimethylamine	ND	40.0	26.3	66	40.0	26.5	66	1	20-150	30
Pyrene	ND	40.0	30.0	75	40.0	30.6	76	2	40-130	30
Azobenzene	ND	40.0	36.3	91	40.0	35.3	88	3	30-150	30
Benzo (e) pyrene	ND	40.0	40.4	101	40.0	40.6	101	1	30-150	30
Biphenyl	ND	40.0	29.5	74	40.0	28.8	72	2	30-150	30

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SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	14.2	71	20.0	14.5	73	40-130
2-Fluorobiphenyl	20.0	12.8	64	20.0	12.2	61	45-130
Terphenyl-d14	20.0	16.2	81	20.0	16.3	81	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID    : SL-508-SA5B-SB-0.0-0.5          Date Analyzed: 07/21/12 00:45
Lab Samp ID  : G081-03                          Dilution Factor: 1
Lab File ID  : RGF103                           Matrix          : SOIL
Ext Btch ID  : SVG031S                          % Moisture     : 9.1
Calib. Ref.  : RGF015                           Instrument ID   : T-OF0
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	4.6J	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	3.0J	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	3.3J	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8
MORPHOLINE (1)	ND	7400	7400

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	125	366.7	34.0*	40-130
2-FLUOROBIPHENYL	143	366.7	38.9*	45-130
TERPHENYL-D14	241	366.7	65.7	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID    : SL-508-SA5B-SB-4.0-5.0          Date Analyzed: 07/20/12 20:56
Lab Samp ID  : G081-04                           Dilution Factor: 1
Lab File ID  : RGF094                             Matrix          : SOIL
Ext Btch ID  : SVG031S                            % Moisture     : 13.0
Calib. Ref.  : RGF015                             Instrument ID   : T-OF0
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9
MORPHOLINE (1)	ND	7700	7700

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	148	383.1	38.6*	40-130
2-FLUOROBIPHENYL	134	383.1	35.0*	45-130
TERPHENYL-D14	315	383.1	82.1	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID:   SL-508-SA5B-SB-7.5-8.5            Date Analyzed: 07/23/12 11:00
Lab Samp ID: G081-06                           Dilution Factor: 2
Lab File ID: RGF111                             Matrix          : SOIL
Ext Btch ID: SVG031S                            % Moisture     : 9.6
Calib. Ref.: RGF015                             Instrument ID   : T-OF0
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.5
ACENAPHTHYLENE	ND	22	5.5
ANTHRACENE	ND	22	5.5
BENZO (A) ANTHRACENE	ND	22	5.5
BENZO (A) PYRENE	21J	22	5.5
BENZO (B) FLUORANTHENE	ND	22	5.5
BENZO (K) FLUORANTHENE	ND	22	5.5
BENZO (G, H, I) PERYLENE	6.0J	22	5.5
CHRYSENE	28	22	5.5
DIBENZO (A, H) ANTHRACENE	ND	22	5.5
FLUORANTHENE	ND	22	5.5
FLUORENE	ND	22	5.5
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.5
NAPHTHALENE	ND	22	5.5
PHENANTHRENE	52	22	5.5
2-METHYLNAPHTHALENE	ND	22	5.5
1-METHYLNAPHTHALENE	ND	22	5.5
N-NITROSODIMETHYLAMINE	ND	22	5.5
PYRENE	29	22	5.5
AZOBENZENE	ND	11	5.5
BENZO (E) PYRENE	ND	11	5.5
BIPHENYL	ND	11	5.5
MORPHOLINE (1)	ND	15000	15000

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	102	368.7	27.6*	40-130
2-FLUOROBIPHENYL	141	368.7	38.2*	45-130
TERPHENYL-D14	242	368.7	65.7	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID    : SL-502-SA5B-SB-0.0-0.5          Date Analyzed: 07/20/12 23:53
Lab Samp ID  : G081-08                           Dilution Factor: 1
Lab File ID  : RGF101                             Matrix          : SOIL
Ext Btch ID  : SVG031S                            % Moisture     : 11.0
Calib. Ref.  : RGF015                             Instrument ID   : T-OF0
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8
MORPHOLINE (1)	ND	7500	7500

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	107	374.5	28.5*	40-130
2-FLUOROBIPHENYL	123	374.5	32.9*	45-130
TERPHENYL-D14	310	374.5	82.8	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID    : SL-502-SA5B-SB-4.0-5.0          Date Analyzed: 07/23/12 11:25
Lab Samp ID  : G081-09                          Dilution Factor: 2
Lab File ID  : RGF112                           Matrix          : SOIL
Ext Btch ID  : SVG031S                          % Moisture     : 10.8
Calib. Ref.  : RGF015                           Instrument ID   : T-OF0
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.6
ACENAPHTHYLENE	ND	22	5.6
ANTHRACENE	ND	22	5.6
BENZO (A) ANTHRACENE	ND	22	5.6
BENZO (A) PYRENE	8.6J	22	5.6
BENZO (B) FLUORANTHENE	ND	22	5.6
BENZO (K) FLUORANTHENE	ND	22	5.6
BENZO (G, H, I) PERYLENE	ND	22	5.6
CHRYSENE	12J	22	5.6
DIBENZO (A, H) ANTHRACENE	ND	22	5.6
FLUORANTHENE	ND	22	5.6
FLUORENE	ND	22	5.6
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.6
NAPHTHALENE	ND	22	5.6
PHENANTHRENE	18J	22	5.6
2-METHYLNAPHTHALENE	ND	22	5.6
1-METHYLNAPHTHALENE	ND	22	5.6
N-NITROSODIMETHYLAMINE	ND	22	5.6
PYRENE	12J	22	5.6
AZOBENZENE	ND	11	5.6
BENZO (E) PYRENE	ND	11	5.6
BIPHENYL	ND	11	5.6
MORPHOLINE (1)	ND	15000	15000

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	134	373.7	35.8*	40-130
2-FLUOROBIPHENYL	169	373.7	45.2	45-130
TERPHENYL-D14	357	373.7	95.4	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID    : SL-502-SA5B-SB-9.0-10.0         Date Analyzed: 07/20/12 21:21
Lab Samp ID  : G081-11                           Dilution Factor: 1
Lab File ID  : RGF095                             Matrix          : SOIL
Ext Btch ID  : SVG031S                            % Moisture     : 12.9
Calib. Ref.  : RGF015                             Instrument ID   : T-OF0
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9
MORPHOLINE (1)	ND	7700	7700

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	129	382.7	33.7*	40-130
2-FLUOROBIPHENYL	113	382.7	29.5*	45-130
TERPHENYL-D14	351	382.7	91.7	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID    : SL-509-SA5B-SB-0.0-0.5          Date Analyzed: 07/20/12 21:46
Lab Samp ID  : G081-13                          Dilution Factor: 1
Lab File ID  : RGF096                           Matrix          : SOIL
Ext Btch ID  : SVG031S                          % Moisture     : 9.7
Calib. Ref.  : RGF015                           Instrument ID   : T-OF0
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8
MORPHOLINE (1)	ND	7400	7400

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	104	369.1	28.1*	40-130
2-FLUOROBIPHENYL	125	369.1	33.9*	45-130
TERPHENYL-D14	263	369.1	71.2	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID    : SL-509-SA5B-SB-4.0-5.0          Date Analyzed: 07/21/12 01:11
Lab Samp ID  : G081-14                          Dilution Factor: 1
Lab File ID  : RGF104                           Matrix          : SOIL
Ext Btch ID  : SVG031S                          % Moisture     : 10.9
Calib. Ref.  : RGF015                           Instrument ID   : T-OF0
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	3.1J	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8
MORPHOLINE (1)	ND	7500	7500

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	166	374.1	44.3	40-130
2-FLUOROBIPHENYL	195	374.1	52.1	45-130
TERPHENYL-D14	312	374.1	83.3	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID    : SL-509-SA5B-SB-7.0-8.0          Date Analyzed: 07/20/12 22:12
Lab Samp ID  : G081-16                           Dilution Factor: 1
Lab File ID  : RGF097                             Matrix          : SOIL
Ext Btch ID  : SVG031S                           % Moisture     : 8.6
Calib. Ref.  : RGF015                             Instrument ID   : T-OF0
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7
MORPHOLINE (1)	ND	7300	7300

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	106	364.7	29.1*	40-130
2-FLUOROBIPHENYL	103	364.7	28.1*	45-130
TERPHENYL-D14	272	364.7	74.6	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID    : SL-505-SA5B-SB-0.0-0.5          Date Analyzed: 07/21/12 00:19
Lab Samp ID  : G081-18                          Dilution Factor: 1
Lab File ID  : RGF102                           Matrix          : SOIL
Ext Btch ID  : SVG031S                          % Moisture     : 8.7
Calib. Ref.  : RGF015                           Instrument ID   : T-OF0
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.5	2.7
BENZO (E) PYRENE	ND	5.5	2.7
BIPHENYL	ND	5.5	2.7
MORPHOLINE (1)	ND	7300	7300

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	100	365.1	27.4*	40-130
2-FLUOROBIPHENYL	119	365.1	32.7*	45-130
TERPHENYL-D14	339	365.1	92.7	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSSL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID:   SL-505-SA5B-SB-4.0-5.0           Date Analyzed: 07/23/12 11:50
Lab Samp ID: G081-19                           Dilution Factor: 2
Lab File ID: RGF113                             Matrix          : SOIL
Ext Btch ID: SVG031S                           % Moisture     : 10.3
Calib. Ref.: RGF015                             Instrument ID  : T-OF0
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
ACENAPHTHENE	ND	22	5.6	
ACENAPHTHYLENE	ND	22	5.6	
ANTHRACENE	ND	22	5.6	
BENZO (A) ANTHRACENE	6.1J	22	5.6	
BENZO (A) PYRENE	10J	22	5.6	
BENZO (B) FLUORANTHENE	ND	22	5.6	
BENZO (K) FLUORANTHENE	ND	22	5.6	
BENZO (G, H, I) PERYLENE	ND	22	5.6	
CHRYSENE	ND	22	5.6	
DIBENZO (A, H) ANTHRACENE	ND	22	5.6	
FLUORANTHENE	ND	22	5.6	
FLUORENE	ND	22	5.6	
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.6	
NAPHTHALENE	ND	22	5.6	
PHENANTHRENE	ND	22	5.6	
2-METHYLNAPHTHALENE	ND	22	5.6	
1-METHYLNAPHTHALENE	ND	22	5.6	
N-NITROSODIMETHYLAMINE	ND	22	5.6	
PYRENE	5.9J	22	5.6	
AZOBENZENE	ND	11	5.6	
BENZO (E) PYRENE	8.0J	11	5.6	
BIPHENYL	ND	11	5.6	
MORPHOLINE (1)	ND	15000	15000	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	163	371.6	44.0	40-130
2-FLUOROBIPHENYL	212	371.6	57.0	45-130
TERPHENYL-D14	323	371.6	87.0	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID    : SL-505-SA5B-SB-9.0-10.0         Date Analyzed: 07/23/12 12:15
Lab Samp ID  : G081-21                         Dilution Factor: 2
Lab File ID  : RGF114                           Matrix          : SOIL
Ext Btch ID  : SVG031S                          % Moisture     : 5.2
Calib. Ref.  : RGF015                           Instrument ID   : T-OF0
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
ACENAPHTHENE	ND	21	5.3	
ACENAPHTHYLENE	ND	21	5.3	
ANTHRACENE	ND	21	5.3	
BENZO (A) ANTHRACENE	ND	21	5.3	
BENZO (A) PYRENE	8.1J	21	5.3	
BENZO (B) FLUORANTHENE	ND	21	5.3	
BENZO (K) FLUORANTHENE	ND	21	5.3	
BENZO (G, H, I) PERYLENE	ND	21	5.3	
CHRYSENE	ND	21	5.3	
DIBENZO (A, H) ANTHRACENE	ND	21	5.3	
FLUORANTHENE	ND	21	5.3	
FLUORENE	ND	21	5.3	
INDENO (1, 2, 3-CD) PYRENE	ND	21	5.3	
NAPHTHALENE	ND	21	5.3	
PHENANTHRENE	ND	21	5.3	
2-METHYLNAPHTHALENE	ND	21	5.3	
1-METHYLNAPHTHALENE	ND	21	5.3	
N-NITROSODIMETHYLAMINE	ND	21	5.3	
PYRENE	ND	21	5.3	
AZOBENZENE	ND	11	5.3	
BENZO (E) PYRENE	5.7J	11	5.3	
BIPHENYL	ND	11	5.3	
MORPHOLINE (1)	ND	14000	14000	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	112	351.6	32.0*	40-130
2-FLUOROBIPHENYL	186	351.6	52.8	45-130
TERPHENYL-D14	317	351.6	90.1	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID    : SL-506-SA5B-SB-0.0-0.5          Date Analyzed: 07/20/12 22:37
Lab Samp ID  : G081-23                           Dilution Factor: 1
Lab File ID  : RGF098                             Matrix          : SOIL
Ext Btch ID  : SVG031S                            % Moisture     : 7.2
Calib. Ref.  : RGF015                             Instrument ID   : T-OF0
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.7
ACENAPHTHYLENE	ND	11	2.7
ANTHRACENE	ND	11	2.7
BENZO (A) ANTHRACENE	ND	11	2.7
BENZO (A) PYRENE	ND	11	2.7
BENZO (B) FLUORANTHENE	ND	11	2.7
BENZO (K) FLUORANTHENE	ND	11	2.7
BENZO (G, H, I) PERYLENE	ND	11	2.7
CHRYSENE	ND	11	2.7
DIBENZO (A, H) ANTHRACENE	ND	11	2.7
FLUORANTHENE	ND	11	2.7
FLUORENE	ND	11	2.7
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.7
NAPHTHALENE	ND	11	2.7
PHENANTHRENE	ND	11	2.7
2-METHYLNAPHTHALENE	ND	11	2.7
1-METHYLNAPHTHALENE	ND	11	2.7
N-NITROSODIMETHYLAMINE	ND	11	2.7
PYRENE	ND	11	2.7
AZOBENZENE	ND	5.4	2.7
BENZO (E) PYRENE	ND	5.4	2.7
BIPHENYL	ND	5.4	2.7
MORPHOLINE (1)	ND	7200	7200

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	112	359.2	31.3*	40-130
2-FLUOROBIPHENYL	147	359.2	40.9*	45-130
TERPHENYL-D14	325	359.2	90.5	45-135

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE - 3                   Date Received: 07/20/12
Batch No.    : 12G081                           Date Extracted: 07/20/12 11:39
Sample ID    : MBLK1S                            Date Analyzed: 07/20/12 17:35
Lab Samp ID  : SVG031SB                          Dilution Factor: 1
Lab File ID  : RGF086                             Matrix          : SOIL
Ext Btch ID  : SVG031S                            % Moisture      : NA
Calib. Ref.  : RGF015                             Instrument ID   : T-OF0
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5
MORPHOLINE (1)	ND	6700	6700

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	200	333.3	60.1	40-130
2-FLUOROBIPHENYL	231	333.3	69.2	45-130
TERPHENYL-D14	328	333.3	98.5	45-130

(1) Morpholine analyzed via 8270 Scan mode with quantitation based on one point daily calibration. Morpholine should be considered tentatively identified.

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVG031SB SVG031SL SVG031SC  
LAB FILE ID: RGF086 RGF087 RGF088  
DATE EXTRACTED: 07/20/1211:39 07/20/1211:39 07/20/1211:39 DATE COLLECTED: NA  
DATE ANALYZED: 07/20/1217:35 07/20/1218:00 07/20/1218:25 DATE RECEIVED: 07/20/12  
PREP. BATCH: SVG031S SVG031S SVG031S  
CALIB. REF: RGF015 RGF015 RGF015

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	295	88	333	295	88	0	10-130	50
Acenaphthylene	ND	333	296	89	333	294	88	0	20-130	50
Anthracene	ND	333	281	84	333	281	84	0	20-130	50
Benzo (a) anthracene	ND	333	299	90	333	292	88	2	30-130	50
Benzo (a) pyrene	ND	333	288	86	333	276	83	4	30-130	50
Benzo (b) fluoranthene	ND	333	338	102	333	348	104	3	40-130	50
Benzo (k) fluoranthene	ND	333	350	105	333	339	102	3	30-140	50
Benzo (g, h, i) perylene	ND	333	317	95	333	309	93	3	30-140	50
Chrysene	ND	333	309	93	333	306	92	1	30-140	50
Dibenzo (a, h) anthracene	ND	333	323	97	333	322	97	0	40-140	50
Fluoranthene	ND	333	314	94	333	307	92	2	30-130	50
Fluorene	ND	333	283	85	333	287	86	1	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	327	98	333	319	96	2	20-160	50
Naphthalene	ND	333	242	73	333	235	70	3	10-130	50
Phenanthrene	ND	333	297	89	333	289	87	3	20-130	50
2-Methylnaphthalene	ND	333	288	86	333	285	85	1	30-150	50
1-Methylnaphthalene	ND	333	288	86	333	282	85	2	30-150	50
N-Nitrosodimethylamine	ND	333	231	69	333	224	67	3	30-150	50
Pyrene	ND	333	299	90	333	297	89	1	20-150	50
Azobenzene	ND	333	280	84	333	270	81	4	30-150	50
Benzo (e) pyrene	ND	333	414	124	333	384	115	8	30-150	50
Biphenyl	ND	333	336	101	333	321	96	4	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	207	62	333	217	65	40-130
2-Fluorobiphenyl	333	221	66	333	237	71	45-130
Terphenyl-d14	333	286	86	333	302	91	45-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 07/12/12
Project    : SSFL PHASE - 3                     Date Received: 07/12/12
Batch No.  : 12G081                             Date Extracted: 07/17/12 09:20
Sample ID  : EB-071212                          Date Analyzed: 07/17/12 09:20
Lab Samp ID: G081-01                            Dilution Factor: 1
Lab File ID: EG16032A                           Matrix          : WATER
Ext Btch ID: VG39G10                             % Moisture     : NA
Calib. Ref.: EG16027A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	22J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	35.6	40.00	88.9 60-140

RL : Reporting Limit  
 Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE - 3                   Date Received: 07/17/12
Batch No.   : 12G081                           Date Extracted: 07/17/12 06:29
Sample ID   : MBLK1W                           Date Analyzed: 07/17/12 06:29
Lab Samp ID: VG39G10B                         Dilution Factor: 1
Lab File ID: EG16028A                        Matrix          : WATER
Ext Btch ID: VG39G10                          % Moisture     : NA
Calib. Ref.: EG16027A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	34.5	40.00	86.1 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39G10B VG39G10L VG39G10C  
LAB FILE ID: EG16028A EG16025A EG16026A  
DATE EXTRACTED: 07/17/1206:29 07/17/1204:20 07/17/1205:03 DATE COLLECTED: NA  
DATE ANALYZED: 07/17/1206:29 07/17/1204:20 07/17/1205:03 DATE RECEIVED: 07/17/12  
PREP. BATCH: VG39G10 VG39G10 VG39G10  
CALIB. REF: EG16027A EG16015A EG16015A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	422	84	500	417	83	1	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	42.9	107	40.0	41.5	104	60-130

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date   Collected: 07/12/12
Project    : SSFL PHASE - 3                     Date   Received: 07/12/12
Batch No.  : 12G081                             Date   Extracted: 07/17/12 10:03
Sample ID : TB-071212                           Date   Analyzed: 07/17/12 10:03
Lab Samp ID: G081-02                             Dilution Factor: 1
Lab File ID: EG16033A                           Matrix      : WATER
Ext Btch ID: VG39G10                             % Moisture  : NA
Calib. Ref.: EG16027A                           Instrument ID : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	19J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	35.1	40.00	87.7 60-140

RL : Reporting Limit  
 Discrete peak(s) reported.

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/14/12 10:07
Sample ID    : SL-508-SA5B-SB-4.5              Date Analyzed: 07/14/12 10:07
Lab Samp ID  : G081-05                          Dilution Factor: 1.39
Lab File ID  : EG13029A                        Matrix          : SOIL
Ext Btch ID  : GMG008S                         % Moisture     : 16.2
Calib. Ref.  : EG13028A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.7	0.83
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	2.89	3.317	87.1 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/14/12 10:50
Sample ID:   SL-508-SA5B-SB-8.0                Date Analyzed: 07/14/12 10:50
Lab Samp ID: G081-07                           Dilution Factor: 1.12
Lab File ID: EG13030A                          Matrix          : SOIL
Ext Btch ID: GMG008S                           % Moisture     : 8.5
Calib. Ref.: EG13028A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.61
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.05	2.448	83.7 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 07/12/12
Project    : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.  : 12G081                           Date Extracted: 07/14/12 11:33
Sample ID: SL-502-SA5B-SB-4.5                Date Analyzed: 07/14/12 11:33
Lab Samp ID: G081-10                          Dilution Factor: 1.01
Lab File ID: EG13031A                         Matrix          : SOIL
Ext Btch ID: GMG008S                           % Moisture     : 11.0
Calib. Ref.: EG13028A                         Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.57
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.07	2.270	91.4 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/14/12 12:16
Sample ID:   SL-502-SA5B-SB-9.5                Date Analyzed: 07/14/12 12:16
Lab Samp ID: G081-12                           Dilution Factor: 1.35
Lab File ID: EG13032A                          Matrix          : SOIL
Ext Btch ID: GMG008S                           % Moisture     : 14.0
Calib. Ref.: EG13028A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.6	0.78
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	2.85	3.140	90.8 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 07/12/12
Project    : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.  : 12G081                           Date Extracted: 07/14/12 12:59
Sample ID: SL-509-SA5B-SB-4.5                 Date Analyzed: 07/14/12 12:59
Lab Samp ID: G081-15                          Dilution Factor: 0.88
Lab File ID: EG13033A                        Matrix          : SOIL
Ext Btch ID: GMG008S                         % Moisture     : 10.2
Calib. Ref.: EG13028A                       Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.98	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.74	1.960	88.5 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 07/12/12
Project     : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.   : 12G081                           Date Extracted: 07/14/12 13:42
Sample ID:  SL-509-SA5B-SB-7.5                 Date Analyzed: 07/14/12 13:42
Lab Samp ID: G081-17                           Dilution Factor: 1.11
Lab File ID: EG13034A                           Matrix          : SOIL
Ext Btch ID: GMG008S                             % Moisture     : 11.8
Calib. Ref.: EG13028A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.3	0.63
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	2.28	2.517	90.8 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/14/12 14:25
Sample ID:   SL-505-SA5B-SB-4.5                 Date Analyzed: 07/14/12 14:25
Lab Samp ID: G081-20                             Dilution Factor: 0.94
Lab File ID: EG13035A                           Matrix          : SOIL
Ext Btch ID: GMG008S                             % Moisture     : 11.0
Calib. Ref.: EG13028A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.53
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.85	2.112	87.4 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/14/12 15:08
Sample ID:   SL-505-SA5B-SB-9.5                 Date Analyzed: 07/14/12 15:08
Lab Samp ID: G081-22                             Dilution Factor: 1.08
Lab File ID: EG13036A                           Matrix          : SOIL
Ext Btch ID: GMG008S                             % Moisture     : 5.5
Calib. Ref.: EG13028A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.57
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	2.03	2.286	89.0 70-140

RL : Reporting Limit

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE - 3                     Date Received: 07/14/12
Batch No.  : 12G081                             Date Extracted: 07/14/12 02:55
Sample ID  : MBLK1S                             Date Analyzed: 07/14/12 02:55
Lab Samp ID: GMG008SB                          Dilution Factor: 1
Lab File ID: EG13019A                          Matrix          : SOIL
Ext Btch ID: GMG008S                            % Moisture     : NA
Calib. Ref.: EG13016A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.83	2.000	91.7 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMG008SB GMG008SL GMG008SC  
LAB FILE ID: EG13019A EG13017A EG13018A  
DATE EXTRACTED: 07/14/1202:55 07/14/1201:29 07/14/1202:12 DATE COLLECTED: NA  
DATE ANALYZED: 07/14/1202:55 07/14/1201:29 07/14/1202:12 DATE RECEIVED: 07/14/12  
PREP. BATCH: GMG008S GMG008S GMG008S  
CALIB. REF: EG13016A EG13016A EG13016A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	22.1	88	25.0	21.3	85	3	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.35	118	2.00	2.31	115	60-130

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 12:45
Sample ID    : EB-071212                        Date Analyzed: 07/17/12 17:04
Lab Samp ID  : G081-01                          Dilution Factor: 1.06
Lab File ID  : LG17013A                         Matrix          : WATER
Ext Btch ID  : DSG024W                          % Moisture     : NA
Calib. Ref.  : LG17003A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.11	0.053
EFH(C12-C14)	ND	0.11	0.053
EFH(C15-C20)	ND	0.11	0.053
EFH(C21-C30)	ND	0.11	0.053
EFH(C30-C40)	ND	0.11	0.053
TOTAL EFH(C8-C40)	ND	0.11	0.053

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.860	1.060	81.1	40-130
HEXACOSANE	0.279	0.2650	105	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE - 3                   Date Received: 07/16/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 12:45
Sample ID    : MBLK1W                           Date Analyzed: 07/17/12 14:50
Lab Samp ID  : DSG024WB                         Dilution Factor: 1
Lab File ID  : LG17005A                        Matrix          : WATER
Ext Btch ID  : DSG024W                         % Moisture      : NA
Calib. Ref.  : LG17003A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.774	1.000	77.4	40-130
HEXACOSANE	0.252	0.2500	101	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSG024WB DSG024WL DSG024WC  
LAB FILE ID: LG17005A LG17006A LG17007A  
DATE EXTRACTED: 07/16/1212:45 07/16/1212:45 07/16/1212:45 DATE COLLECTED: NA  
DATE ANALYZED: 07/17/1214:50 07/17/1215:06 07/17/1215:23 DATE RECEIVED: 07/16/12  
PREP. BATCH: DSG024W DSG024W DSG024W  
CALIB. REF: LG17003A LG17003A LG17003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	4.37	87	5.00	4.51	90	3	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.844	84	1.00	0.903	90	40-130
Hexacosane	0.250	0.263	105	0.250	0.280	112	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : SL-508-SA5B-SB-0.0-0.5          Date Analyzed: 07/16/12 22:51
Lab Samp ID  : G081-03                          Dilution Factor: 1
Lab File ID  : LG16044A                         Matrix          : SOIL
Ext Btch ID  : DSG025S                          % Moisture     : 9.1
Calib. Ref.  : LG16040A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	17	5.5	2.8
EFH(C30-C40)	22	11	5.5
TOTAL EFH(C8-C40)	39	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	72.2	110.0	65.6	50-150
HEXACOSANE	27.2	27.50	98.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : SL-508-SA5B-SB-4.0-5.0          Date Analyzed: 07/16/12 21:09
Lab Samp ID  : G081-04                           Dilution Factor: 1
Lab File ID  : LG16038A                          Matrix          : SOIL
Ext Btch ID  : DSG025S                           % Moisture     : 13.0
Calib. Ref.  : LG16028A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	ND	5.7	2.9
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.3	114.9	68.1	50-150
HEXACOSANE	27.5	28.74	95.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID:   SL-508-SA5B-SB-7.5-8.5           Date Analyzed: 07/17/12 00:32
Lab Samp ID: G081-06                           Dilution Factor: 1
Lab File ID: LG16050A                          Matrix          : SOIL
Ext Btch ID: DSG025S                            % Moisture     : 9.6
Calib. Ref.: LG16040A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	180	5.5	2.8
EFH(C30-C40)	270	11	5.5
TOTAL EFH(C8-C40)	450	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.2	110.6	70.7	50-150
HEXACOSANE	27.5	27.65	99.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : SL-502-SA5B-SB-0.0-0.5          Date Analyzed: 07/16/12 21:26
Lab Samp ID  : G081-08                          Dilution Factor: 1
Lab File ID  : LG16039A                        Matrix          : SOIL
Ext Btch ID  : DSG025S                         % Moisture     : 11.0
Calib. Ref.  : LG16028A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	4.9J	5.6	2.8
EFH(C30-C40)	6.2J	11	5.6
TOTAL EFH(C8-C40)	11	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.5	112.4	67.2	50-150
HEXACOSANE	26.9	28.09	95.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : SL-502-SA5B-SB-4.0-5.0          Date Analyzed: 07/16/12 23:24
Lab Samp ID  : G081-09                           Dilution Factor: 1
Lab File ID  : LG16046A                          Matrix          : SOIL
Ext Btch ID  : DSG025S                           % Moisture     : 10.8
Calib. Ref.  : LG16040A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	27	5.6	2.8
EFH(C30-C40)	41	11	5.6
TOTAL EFH(C8-C40)	68	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	75.3	112.1	67.1	50-150
HEXACOSANE	28.0	28.03	100	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : SL-502-SA5B-SB-9.0-10.0         Date Analyzed: 07/16/12 19:45
Lab Samp ID  : G081-11                           Dilution Factor: 1
Lab File ID  : LG16033A                          Matrix          : SOIL
Ext Btch ID  : DSG025S                           % Moisture     : 12.9
Calib. Ref.  : LG16028A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	ND	5.7	2.9
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.9	114.8	64.3	50-150
HEXACOSANE	27.2	28.70	94.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : SL-509-SA5B-SB-0.0-0.5          Date Analyzed: 07/16/12 22:17
Lab Samp ID  : G081-13                          Dilution Factor: 1
Lab File ID  : LG16042A                         Matrix          : SOIL
Ext Btch ID  : DSG025S                          % Moisture     : 9.7
Calib. Ref.  : LG16040A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	3.9J	5.5	2.8
EFH(C30-C40)	6.4J	11	5.5
TOTAL EFH(C8-C40)	10	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	74.6	110.7	67.3	50-150
HEXACOSANE	27.0	27.69	97.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : SL-509-SA5B-SB-4.0-5.0          Date Analyzed: 07/16/12 23:08
Lab Samp ID  : G081-14                          Dilution Factor: 1
Lab File ID  : LG16045A                        Matrix          : SOIL
Ext Btch ID  : DSG025S                         % Moisture     : 10.9
Calib. Ref.  : LG16040A                       Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	12	5.6	2.8
EFH(C30-C40)	18	11	5.6
TOTAL EFH(C8-C40)	30	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.3	112.2	68.0	50-150
HEXACOSANE	27.6	28.06	98.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : SL-509-SA5B-SB-7.0-8.0          Date Analyzed: 07/16/12 20:02
Lab Samp ID  : G081-16                           Dilution Factor: 1
Lab File ID  : LG16034A                          Matrix          : SOIL
Ext Btch ID  : DSG025S                           % Moisture     : 8.6
Calib. Ref.  : LG16028A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	ND	5.5	2.7
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.0	109.4	66.7	50-150
HEXACOSANE	26.1	27.35	95.5	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : SL-505-SA5B-SB-0.0-0.5          Date Analyzed: 07/16/12 22:34
Lab Samp ID  : G081-18                          Dilution Factor: 1
Lab File ID  : LG16043A                         Matrix          : SOIL
Ext Btch ID  : DSG025S                          % Moisture     : 8.7
Calib. Ref.  : LG16040A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.7
EFH(C12-C14)	ND	5.5	2.7
EFH(C15-C20)	ND	5.5	2.7
EFH(C21-C30)	3.7J	5.5	2.7
EFH(C30-C40)	6.3J	11	5.5
TOTAL EFH(C8-C40)	10	5.5	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	79.8	109.5	72.9	50-150
HEXACOSANE	27.5	27.38	100	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : SL-505-SA5B-SB-4.0-5.0          Date Analyzed: 07/16/12 23:58
Lab Samp ID  : G081-19                          Dilution Factor: 1
Lab File ID  : LG16048A                         Matrix          : SOIL
Ext Btch ID  : DSG025S                          % Moisture     : 10.3
Calib. Ref.  : LG16040A                         Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	46	5.6	2.8
EFH(C30-C40)	64	11	5.6
TOTAL EFH(C8-C40)	110	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.8	111.5	73.4	50-150
HEXACOSANE	30.6	27.87	110	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : SL-505-SA5B-SB-9.0-10.0         Date Analyzed: 07/17/12 00:15
Lab Samp ID  : G081-21                           Dilution Factor: 1
Lab File ID  : LG16049A                          Matrix          : SOIL
Ext Btch ID  : DSG025S                           % Moisture     : 5.2
Calib. Ref.  : LG16040A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.3	2.6
EFH(C12-C14)	ND	5.3	2.6
EFH(C15-C20)	ND	5.3	2.6
EFH(C21-C30)	51	5.3	2.6
EFH(C30-C40)	82	11	5.3
TOTAL EFH(C8-C40)	130	5.3	2.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.7	105.5	72.7	50-150
HEXACOSANE	28.6	26.37	108	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : SL-506-SA5B-SB-0.0-0.5          Date Analyzed: 07/16/12 20:53
Lab Samp ID  : G081-23                          Dilution Factor: 1
Lab File ID  : LG16037A                        Matrix          : SOIL
Ext Btch ID  : DSG025S                          % Moisture     : 7.2
Calib. Ref.  : LG16028A                        Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	14	5.4	2.7
EFH(C30-C40)	ND	11	5.4
TOTAL EFH(C8-C40)	14	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.7	107.8	68.4	50-150
HEXACOSANE	26.7	26.94	99.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE - 3                   Date Received: 07/16/12
Batch No.    : 12G081                           Date Extracted: 07/16/12 15:52
Sample ID    : MBLK1S                            Date Analyzed: 07/16/12 18:55
Lab Samp ID  : DSG025SB                         Dilution Factor: 1
Lab File ID  : LG16030A                        Matrix          : SOIL
Ext Btch ID  : DSG025S                          % Moisture     : NA
Calib. Ref.  : LG16028A                        Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	71.1	100.0	71.1	50-150
HEXACOSANE	23.8	25.00	95.1	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSG025SB DSG025SL DSG025SC  
LAB FILE ID: LG16030A LG16031A LG16032A  
DATE EXTRACTED: 07/16/1215:52 07/16/1215:52 07/16/1215:52 DATE COLLECTED: NA  
DATE ANALYZED: 07/16/1218:55 07/16/1219:11 07/16/1219:28 DATE RECEIVED: 07/16/12  
PREP. BATCH: DSG025S DSG025S DSG025S  
CALIB. REF: LG16028A LG16028A LG16028A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	430	86	500	395	79	9	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	82.8	83	100	81.5	82	50-150
Hexacosane	25.0	25.8	103	25.0	25.5	102	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 8.6  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-509-SA5B-SB-7.0-8.0  
LAB SAMP ID: G081-16 G081-16M G081-16S  
LAB FILE ID: LG16034A LG16035A LG16036A  
DATE EXTRACTED: 07/16/1215:52 07/16/1215:52 07/16/1215:52 DATE COLLECTED: 07/12/12  
DATE ANALYZED: 07/16/1220:02 07/16/1220:19 07/16/1220:36 DATE RECEIVED: 07/12/12  
PREP. BATCH: DSG025S DSG025S DSG025S  
CALIB. REF: LG16028A LG16028A LG16028A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	547	415	76	547	414	76	0	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	109	75.6	69	109	79.1	72	50-150
Hexacosane	27.4	25.0	91	27.4	26.6	97	50-150

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/17/12 12:00
Sample ID    : EB-071212                        Date Analyzed: 07/25/12 23:36
Lab Samp ID  : G081-01                          Dilution Factor: 0.95
Lab File ID  : SG25021A                         Matrix          : WATER
Ext Btch ID  : CPG032W                          % Moisture     : NA
Calib. Ref.  : SG25014A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	0.95	0.48   0.48
AROCLOR 1221	(ND)   ND	0.95	0.48   0.48
AROCLOR 1232	(ND)   ND	0.95	0.48   0.48
AROCLOR 1242	(ND)   ND	0.95	0.48   0.48
AROCLOR 1248	(ND)   ND	0.95	0.48   0.48
AROCLOR 1254	(ND)   ND	0.95	0.48   0.48
AROCLOR 1260	(ND)   ND	0.95	0.48   0.48
AROCLOR 1262	(ND)   ND	0.95	0.48   0.48
AROCLOR 1268	(ND)   ND	0.95	0.48   0.48
AROCLOR 5432	(ND)   ND	1.9	0.95   0.95
AROCLOR 5442	(ND)   ND	1.9	0.95   0.95
AROCLOR 5460	(ND)   ND	1.9	0.95   0.95

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	0.4694   (0.4543)	0.3800	124*   (120)	45-120
TETRACHLORO-M-XYLENE	0.3077   (0.3367)	0.3800	81.0   (88.6)	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE - 3                     Date Received: 07/17/12
Batch No.  : 12G081                             Date Extracted: 07/17/12 12:00
Sample ID  : MBLK1W                             Date Analyzed: 07/25/12 21:54
Lab Samp ID: CPG032WB                           Dilution Factor: 1
Lab File ID: SG25018A                           Matrix          : WATER
Ext Btch ID: CPG032W                             % Moisture     : NA
Calib. Ref.: SG25014A                           Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	0.4842   (0.4697)	0.4000	121*   (117)	45-120
TETRACHLORO-M-XYLENE	0.3529   (0.3897)	0.4000	88.2   (97.4)	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: METHOD 3520C/8082

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPG032WB 60G032WX 60G032WY  
LAB FILE ID: SG25018A SG25019A SG25020A  
DATE EXTRACTED: 07/17/1212:00 07/17/1212:00 07/17/1212:00 DATE COLLECTED: NA  
DATE ANALYZED: 07/25/1221:54 07/25/1222:28 07/25/1223:02 DATE RECEIVED: 07/17/12  
PREP. BATCH: CPG032W CPG032W CPG032W  
CALIB. REF: SG25014A SG25014A SG25014A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	5.38   (5.41)	108   (108)	5.00	5.86   (5.89)	117   (118)	9   (8)	50-130	30
Aroclor 1260	(ND)   ND	5.00	(6.31)   5.99	(126)   120	5.00	(6.90)   6.67	(138)   133	(9)   11	60-150	30
Aroclor 5460	(ND)   ND	2.50	3.09   (2.77)	123   (111)	2.50	3.74   (3.36)	150   (134)	19   (19)	50-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	0.4998   (0.4826)	125*   (121*)	0.4000	0.5405   (0.5242)	135*   (131*)	45-120
Tetrachloro-m-xylene	0.4000	0.3873   (0.4141)	96.8   (104)	0.4000	0.4116   (0.4411)	103   (110)	30-140

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/24/12 16:03
Sample ID    : SL-502-SA5B-SB-0.0-0.5          Date Analyzed: 07/26/12 01:53
Lab Samp ID  : G081-08                          Dilution Factor: 1
Lab File ID  : SG25025A                         Matrix          : SOIL
Ext Btch ID  : CPG047S                          % Moisture     : 11.0
Calib. Ref.  : SG25014A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(17.50)   17.17	14.98	(117)   115	45-120
TETRACHLORO-M-XYLENE	14.91   (15.90)	14.98	99.5   (106)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/24/12 16:03
Sample ID    : SL-502-SA5B-SB-4.0-5.0          Date Analyzed: 07/26/12 02:27
Lab Samp ID  : G081-09                          Dilution Factor: 1
Lab File ID  : SG25026A                        Matrix          : SOIL
Ext Btch ID  : CPG047S                         % Moisture     : 10.8
Calib. Ref.  : SG25014A                       Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(16.03)   15.87	14.94	(107)   106	45-120
TETRACHLORO-M-XYLENE	15.69   (18.21)	14.94	105   (122)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/24/12 16:03
Sample ID    : SL-502-SA5B-SB-9.0-10.0         Date Analyzed: 07/26/12 03:01
Lab Samp ID  : G081-11                          Dilution Factor: 1
Lab File ID  : SG25027A                         Matrix          : SOIL
Ext Btch ID  : CPG047S                          % Moisture     : 12.9
Calib. Ref.  : SG25014A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(17.93)   17.10	15.30	(117)   112	45-120
TETRACHLORO-M-XYLENE	13.41   (14.47)	15.30	87.6   (94.5)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/24/12 16:03
Sample ID:   SL-505-SA5B-SB-0.0-0.5           Date Analyzed: 07/26/12 03:35
Lab Samp ID: G081-18                           Dilution Factor: 1
Lab File ID: SG25028A                          Matrix          : SOIL
Ext Btch ID: CPG047S                            % Moisture     : 8.7
Calib. Ref.: SG25014A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(16.77)   16.43	14.60	(115)   113	45-120
TETRACHLORO-M-XYLENE	14.64   (15.74)	14.60	100   (108)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/24/12 16:03
Sample ID    : SL-505-SA5B-SB-4.0-5.0          Date Analyzed: 07/26/12 04:10
Lab Samp ID  : G081-19                          Dilution Factor: 1
Lab File ID  : SG25029A                        Matrix          : SOIL
Ext Btch ID  : CPG047S                          % Moisture     : 10.3
Calib. Ref.  : SG25014A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(14.72)   14.41	14.86	(99.0)   96.9	45-120
TETRACHLORO-M-XYLENE	14.82   (16.16)	14.86	99.7   (109)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 07/12/12
Project    : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.  : 12G081                           Date Extracted: 07/24/12 16:03
Sample ID  : SL-505-SA5B-SB-9.0-10.0         Date Analyzed: 07/26/12 04:44
Lab Samp ID: G081-21                          Dilution Factor: 1
Lab File ID: SG25030A                        Matrix          : SOIL
Ext Btch ID: CPG047S                         % Moisture     : 5.2
Calib. Ref.: SG25014A                       Instrument ID  : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	21	11   11	
AROCLOR 1221	(ND)   ND	21	11   11	
AROCLOR 1232	(ND)   ND	21	11   11	
AROCLOR 1242	(ND)   ND	21	11   11	
AROCLOR 1248	(ND)   ND	21	11   11	
AROCLOR 1254	(ND)   ND	21	11   11	
AROCLOR 1260	(ND)   ND	21	11   11	
AROCLOR 1262	(ND)   ND	21	11   11	
AROCLOR 1268	(ND)   ND	21	11   11	
AROCLOR 5432	(ND)   ND	42	21   21	
AROCLOR 5442	(ND)   ND	42	21   21	
AROCLOR 5460	(ND)   ND	42	21   21	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(14.41)   13.97	14.06	(102)   99.3	45-120
TETRACHLORO-M-XYLENE	14.53   (16.21)	14.06	103   (115)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
Batch No.    : 12G081                           Date Extracted: 07/24/12 16:03
Sample ID    : SL-506-SA5B-SB-0.0-0.5          Date Analyzed: 07/26/12 05:18
Lab Samp ID  : G081-23                          Dilution Factor: 1
Lab File ID  : SG25031A                        Matrix          : SOIL
Ext Btch ID  : CPG047S                         % Moisture     : 7.2
Calib. Ref.  : SG25014A                       Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	43	22   22	
AROCLOR 5442	(ND)   ND	43	22   22	
AROCLOR 5460	(ND)   ND	43	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	17.66   (16.71)	14.36	123*   (116)	45-120
TETRACHLORO-M-XYLENE	14.36   (15.53)	14.36	100   (108)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE - 3                   Date Received: 07/24/12
Batch No.    : 12G081                           Date Extracted: 07/24/12 16:03
Sample ID    : MBLK1S                           Date Analyzed: 07/26/12 00:10
Lab Samp ID  : 60G047SB                         Dilution Factor: 1
Lab File ID  : SG25022A                        Matrix          : SOIL
Ext Btch ID  : CPG047S                          % Moisture     : NA
Calib. Ref.  : SG25014A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
-----	-----	-----	-----	-----
DECACHLOROBIPHENYL	17.17   (16.64)	13.33	129*   (125*)	45-120
TETRACHLORO-M-XYLENE	13.78   (14.97)	13.33	103   (112)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60G047SB 60G047SL 60G047SC  
LAB FILE ID: SG25022A SG25023A SG25024A  
DATE EXTRACTED: 07/24/1216:03 07/24/1216:03 07/24/1216:03 DATE COLLECTED: NA  
DATE ANALYZED: 07/26/1200:10 07/26/1200:45 07/26/1201:19 DATE RECEIVED: 07/24/12  
PREP. BATCH: CPG047S CPG047S CPG047S  
CALIB. REF: SG25014A SG25014A SG25014A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(175)   172	(105)   103	167	(177)   173	(106)   104	(1)   1	50-130	50
Aroclor 1260	(ND)   ND	167	(194)   186	(116)   112	167	(195)   188	(117)   113	(1)   1	60-150	50
Aroclor 5460	(ND)   ND	83.3	108   (99.0)	130   (119)	83.3	107   (98.4)	128   (118)	1   (1)	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	17.45   (16.90)	131*   (127*)	13.33	17.69   (17.14)	133*   (129*)	45-120
Tetrachloro-m-xylene	13.33	14.31   (15.19)	107   (114)	13.33	14.55   (15.44)	109   (116)	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
SDG NO.     : 12G081                           Date Extracted: 07/19/12 14:00
Sample ID   : EB-071212                        Date Analyzed: 07/25/12 17:14
Lab Samp ID : G081-01                          Dilution Factor: 1
Lab File ID : 98G07082                        Matrix          : WATER
Ext Btch ID : IMG026W                         % Moisture     : NA
Calib. Ref. : 98G07073                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	0.0450J	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00535J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	0.0367J	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	0.00157	0.00100	0.000500
Iron	0.0119J	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	0.000308J	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	0.000277J	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE - 3                   Date Received: 07/19/12
SDG NO.    : 12G081                           Date Extracted: 07/19/12 14:00
Sample ID   : MBLK1W                           Date Analyzed: 07/25/12 17:00
Lab Samp ID: IMG026WB                          Dilution Factor: 1
Lab File ID: 98G07079                          Matrix          : WATER
Ext Btch ID: IMG026W                           % Moisture      : NA
Calib. Ref.: 98G07073                          Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
SDG NO.: 12G081  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMG026WB IMG026WL IMG026WC  
LAB FILE ID: 98G07079 98G07080 98G07081  
DATIME EXTRACTD: 07/19/1214:00 07/19/1214:00 07/19/1214:00 DATE COLLECTED: NA  
DATIME ANALYZD: 07/25/1217:00 07/25/1217:05 07/25/1217:09 DATE RECEIVED: 07/19/12  
PREP. BATCH: IMG026W IMG026W IMG026W  
CALIB. REF: 98G07073 98G07073 98G07073

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.58	103	2.50	2.52	101	3	80-120	20
Antimony	ND	0.0250	0.0244	98	0.0250	0.0241	97	1	80-120	20
Arsenic	ND	0.0250	0.0243	97	0.0250	0.0241	96	1	80-120	20
Barium	ND	0.0250	0.0248	99	0.0250	0.0242	97	2	80-120	20
Beryllium	ND	0.0250	0.0238	95	0.0250	0.0235	94	1	80-120	20
Boron	ND	0.0250	0.0247	99	0.0250	0.0245	98	1	80-120	20
Cadmium	ND	0.0250	0.0244	98	0.0250	0.0242	97	1	80-120	20
Calcium	ND	2.50	2.69	108	2.50	2.63	105	2	80-120	20
Chromium	ND	0.0250	0.0234	94	0.0250	0.0227	91	3	80-120	20
Cobalt	ND	0.0250	0.0237	95	0.0250	0.0230	92	3	80-120	20
Copper	ND	0.0250	0.0227	91	0.0250	0.0222	89	2	80-120	20
Iron	ND	2.50	2.63	105	2.50	2.58	103	2	80-120	20
Lead	ND	0.0250	0.0246	98	0.0250	0.0243	97	1	80-120	20
Magnesium	ND	2.50	2.65	106	2.50	2.55	102	4	80-120	20
Manganese	ND	0.0250	0.0247	99	0.0250	0.0240	96	3	80-120	20
Molybdenum	ND	0.0250	0.0243	97	0.0250	0.0241	97	1	80-120	20
Nickel	ND	0.0250	0.0228	91	0.0250	0.0225	90	1	80-120	20
Potassium	ND	2.50	2.72	109	2.50	2.63	105	3	80-120	20
Selenium	ND	0.0250	0.0243	97	0.0250	0.0242	97	0	80-120	20
Silver	ND	0.0250	0.0252	101	0.0250	0.0252	101	0	80-120	20
Sodium	ND	2.50	2.55	102	2.50	2.51	100	2	80-120	20
Strontium	ND	0.0250	0.0247	99	0.0250	0.0241	96	3	80-120	20
Thallium	ND	0.0250	0.0243	97	0.0250	0.0242	97	1	80-120	20
Tin	ND	0.0250	0.0251	100	0.0250	0.0247	99	2	80-120	20
Titanium	ND	0.0250	0.0248	99	0.0250	0.0244	98	2	80-120	20
Vanadium	ND	0.0250	0.0232	93	0.0250	0.0226	90	3	80-120	20
Zinc	ND	0.0500	0.0504	101	0.0500	0.0486	97	4	80-120	20
Lithium	ND	0.0250	0.0237	95	0.0250	0.0234	93	1	80-120	20
Phosphorus	ND	0.250	0.251	100	0.250	0.247	99	1	80-120	20
Zirconium	ND	0.0250	0.0257	103	0.0250	0.0252	101	2	80-120	20

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
SDG NO.     : 12G081                           Date Extracted: 07/18/12 11:15
Sample ID   : SL-508-SA5B-SB-0.0-0.5          Date Analyzed: 07/25/12 14:29
Lab Samp ID : G081-03                           Dilution Factor: 0.966
Lab File ID : 98G07046                         Matrix          : SOIL
Ext Btch ID : IMG023S                          % Moisture     : 9.1
Calib. Ref. : 98G07037                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11600	106	12.8
Antimony	0.151J	0.531	0.106
Arsenic	3.30	0.531	0.213
Barium	99.4	0.531	0.213
Beryllium	0.483J	0.531	0.0531
Boron	ND	5.31	2.66
Cadmium	0.140J	0.531	0.0531
Calcium	2680	21.3	10.6
Chromium	13.8	0.531	0.213
Cobalt	5.07	0.531	0.0531
Copper	7.10	0.531	0.213
Iron	17300	106	10.6
Lead	4.65	0.531	0.106
Magnesium	3840	10.6	5.31
Manganese	201	0.531	0.266
Molybdenum	0.474J	0.531	0.0531
Nickel	7.72	0.531	0.213
Potassium	2600	106	31.9
Selenium	ND	0.531	0.213
Silver	ND	0.531	0.0531
Sodium	122	106	53.1
Strontium	18.8	0.531	0.266
Thallium	0.222J	0.425	0.0531
Tin	ND	10.6	5.31
Titanium	922	1.06	0.531
Vanadium	30.1	0.531	0.0531
Zinc	41.7	5.31	1.59
Lithium	15.7	2.13	1.06
Phosphorus	236	12.8	6.38
Zirconium	ND	5.31	2.66

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
SDG NO.     : 12G081                           Date Extracted: 07/18/12 11:15
Sample ID   : SL-508-SA5B-SB-4.0-5.0          Date Analyzed: 07/25/12 15:01
Lab Samp ID : G081-04                           Dilution Factor: 0.995
Lab File ID : 98G07053                         Matrix          : SOIL
Ext Btch ID : IMG023S                          % Moisture     : 13.0
Calib. Ref. : 98G07049                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14500	114	13.7
Antimony	0.187J	0.572	0.114
Arsenic	6.08	0.572	0.229
Barium	86.5	0.572	0.229
Beryllium	0.499J	0.572	0.0572
Boron	ND	5.72	2.86
Cadmium	0.0992J	0.572	0.0572
Calcium	2220	22.9	11.4
Chromium	15.8	0.572	0.229
Cobalt	3.25	0.572	0.0572
Copper	5.56	0.572	0.229
Iron	21800	114	11.4
Lead	5.95	0.572	0.114
Magnesium	3960	11.4	5.72
Manganese	144	0.572	0.286
Molybdenum	0.748	0.572	0.0572
Nickel	6.58	0.572	0.229
Potassium	1340	114	34.3
Selenium	ND	0.572	0.229
Silver	ND	0.572	0.0572
Sodium	268	114	57.2
Strontium	21.2	0.572	0.286
Thallium	0.218J	0.457	0.0572
Tin	ND	11.4	5.72
Titanium	754	1.14	0.572
Vanadium	32.7	0.572	0.0572
Zinc	36.8	5.72	1.72
Lithium	13.5	2.29	1.14
Phosphorus	146	13.7	6.86
Zirconium	ND	5.72	2.86

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/12/12
Project     : SSFL PHASE - 3                   Date Received: 07/12/12
SDG NO.    : 12G081                           Date Extracted: 07/18/12 11:15
Sample ID:  SL-508-SA5B-SB-7.5-8.5           Date Analyzed: 07/25/12 15:06
Lab Samp ID: G081-06                          Dilution Factor: 0.995
Lab File ID: 98G07054                         Matrix          : SOIL
Ext Btch ID: IMG023S                           % Moisture     : 9.6
Calib. Ref.: 98G07049                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12000	110	13.2
Antimony	0.154J	0.550	0.110
Arsenic	3.35	0.550	0.220
Barium	103	0.550	0.220
Beryllium	0.537J	0.550	0.0550
Boron	ND	5.50	2.75
Cadmium	0.117J	0.550	0.0550
Calcium	2250	22.0	11.0
Chromium	23.7	0.550	0.220
Cobalt	3.20	0.550	0.0550
Copper	6.49	0.550	0.220
Iron	17200	110	11.0
Lead	4.06	0.550	0.110
Magnesium	3110	11.0	5.50
Manganese	132	0.550	0.275
Molybdenum	4.46	0.550	0.0550
Nickel	7.45	0.550	0.220
Potassium	2060	110	33.0
Selenium	ND	0.550	0.220
Silver	ND	0.550	0.0550
Sodium	308	110	55.0
Strontium	18.3	0.550	0.275
Thallium	0.197J	0.440	0.0550
Tin	ND	11.0	5.50
Titanium	715	1.10	0.550
Vanadium	24.5	0.550	0.0550
Zinc	36.0	5.50	1.65
Lithium	14.4	2.20	1.10
Phosphorus	216	13.2	6.60
Zirconium	ND	5.50	2.75

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
SDG NO.     : 12G081                           Date Extracted: 07/18/12 11:15
Sample ID   : SL-502-SA5B-SB-0.0-0.5          Date Analyzed: 07/25/12 15:10
Lab Samp ID : G081-08                           Dilution Factor: 0.985
Lab File ID : 98G07055                          Matrix          : SOIL
Ext Btch ID : IMG023S                           % Moisture     : 11.0
Calib. Ref. : 98G07049                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	12200	111	13.3
Antimony	0.186J	0.553	0.111
Arsenic	3.24	0.553	0.221
Barium	90.8	0.553	0.221
Beryllium	0.513J	0.553	0.0553
Boron	ND	5.53	2.77
Cadmium	5.41	0.553	0.0553
Calcium	3000	22.1	11.1
Chromium	14.2	0.553	0.221
Cobalt	5.08	0.553	0.0553
Copper	6.86	0.553	0.221
Iron	17300	111	11.1
Lead	6.32	0.553	0.111
Magnesium	3630	11.1	5.53
Manganese	268	0.553	0.277
Molybdenum	0.481J	0.553	0.0553
Nickel	8.28	0.553	0.221
Potassium	2350	111	33.2
Selenium	ND	0.553	0.221
Silver	ND	0.553	0.0553
Sodium	69.9J	111	55.3
Strontium	19.4	0.553	0.277
Thallium	0.227J	0.443	0.0553
Tin	ND	11.1	5.53
Titanium	860	1.11	0.553
Vanadium	28.7	0.553	0.0553
Zinc	41.5	5.53	1.66
Lithium	15.9	2.21	1.11
Phosphorus	191	13.3	6.64
Zirconium	ND	5.53	2.77

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/12/12
Project     : SSFL PHASE - 3                   Date Received: 07/12/12
SDG NO.    : 12G081                           Date Extracted: 07/18/12 11:15
Sample ID: SL-502-SA5B-SB-4.0-5.0           Date Analyzed: 07/25/12 15:15
Lab Samp ID: G081-09                         Dilution Factor: 0.985
Lab File ID: 98G07056                       Matrix          : SOIL
Ext Btch ID: IMG023S                        % Moisture     : 10.8
Calib. Ref.: 98G07049                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	11100	110	13.3
Antimony	0.120J	0.552	0.110
Arsenic	2.58	0.552	0.221
Barium	94.9	0.552	0.221
Beryllium	0.476J	0.552	0.0552
Boron	ND	5.52	2.76
Cadmium	0.204J	0.552	0.0552
Calcium	2120	22.1	11.0
Chromium	12.8	0.552	0.221
Cobalt	5.52	0.552	0.0552
Copper	4.18	0.552	0.221
Iron	15700	110	11.0
Lead	4.72	0.552	0.110
Magnesium	3200	11.0	5.52
Manganese	361	0.552	0.276
Molybdenum	0.537J	0.552	0.0552
Nickel	7.53	0.552	0.221
Potassium	1260	110	33.1
Selenium	ND	0.552	0.221
Silver	ND	0.552	0.0552
Sodium	89.3J	110	55.2
Strontium	19.3	0.552	0.276
Thallium	0.207J	0.442	0.0552
Tin	ND	11.0	5.52
Titanium	765	1.10	0.552
Vanadium	26.0	0.552	0.0552
Zinc	34.5	5.52	1.66
Lithium	12.9	2.21	1.10
Phosphorus	84.3	13.3	6.63
Zirconium	ND	5.52	2.76

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/12/12
Project      : SSFL PHASE - 3                   Date Received: 07/12/12
SDG NO.     : 12G081                           Date Extracted: 07/18/12 11:15
Sample ID   : SL-502-SA5B-SB-9.0-10.0         Date Analyzed: 07/25/12 15:19
Lab Samp ID : G081-11                          Dilution Factor: 0.980
Lab File ID : 98G07057                        Matrix          : SOIL
Ext Btch ID : IMG023S                         % Moisture     : 12.9
Calib. Ref. : 98G07049                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14900	113	13.5
Antimony	0.121J	0.563	0.113
Arsenic	2.93	0.563	0.225
Barium	45.9	0.563	0.225
Beryllium	0.341J	0.563	0.0563
Boron	ND	5.63	2.81
Cadmium	0.0734J	0.563	0.0563
Calcium	1840	22.5	11.3
Chromium	13.3	0.563	0.225
Cobalt	1.60	0.563	0.0563
Copper	4.78	0.563	0.225
Iron	16200	113	11.3
Lead	4.06	0.563	0.113
Magnesium	2360	11.3	5.63
Manganese	71.7	0.563	0.281
Molybdenum	0.370J	0.563	0.0563
Nickel	3.88	0.563	0.225
Potassium	898	113	33.8
Selenium	ND	0.563	0.225
Silver	ND	0.563	0.0563
Sodium	132	113	56.3
Strontium	17.4	0.563	0.281
Thallium	0.141J	0.450	0.0563
Tin	ND	11.3	5.63
Titanium	446	1.13	0.563
Vanadium	21.8	0.563	0.0563
Zinc	26.0	5.63	1.69
Lithium	13.1	2.25	1.13
Phosphorus	60.7	13.5	6.75
Zirconium	ND	5.63	2.81

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/12/12
Project     : SSFL PHASE - 3                   Date Received: 07/12/12
SDG NO.    : 12G081                           Date Extracted: 07/18/12 11:15
Sample ID: SL-505-SA5B-SB-0.0-0.5           Date Analyzed: 07/25/12 15:24
Lab Samp ID: G081-18                         Dilution Factor: 1.00
Lab File ID: 98G07058                       Matrix          : SOIL
Ext Btch ID: IMG023S                        % Moisture     : 8.7
Calib. Ref.: 98G07049                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13900	110	13.1
Antimony	0.155J	0.548	0.110
Arsenic	4.47	0.548	0.219
Barium	94.3	0.548	0.219
Beryllium	0.612	0.548	0.0548
Boron	ND	5.48	2.74
Cadmium	0.150J	0.548	0.0548
Calcium	2580	21.9	11.0
Chromium	17.5	0.548	0.219
Cobalt	5.24	0.548	0.0548
Copper	7.10	0.548	0.219
Iron	19700	110	11.0
Lead	5.56	0.548	0.110
Magnesium	4200	11.0	5.48
Manganese	207	0.548	0.274
Molybdenum	0.521J	0.548	0.0548
Nickel	9.37	0.548	0.219
Potassium	1840	110	32.9
Selenium	ND	0.548	0.219
Silver	ND	0.548	0.0548
Sodium	220	110	54.8
Strontium	22.5	0.548	0.274
Thallium	0.239J	0.438	0.0548
Tin	ND	11.0	5.48
Titanium	900	1.10	0.548
Vanadium	33.0	0.548	0.0548
Zinc	41.4	5.48	1.64
Lithium	18.3	2.19	1.10
Phosphorus	170	13.1	6.57
Zirconium	ND	5.48	2.74

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/12/12
Project    : SSFL PHASE - 3                   Date Received: 07/12/12
SDG NO.    : 12G081                           Date Extracted: 07/18/12 11:15
Sample ID: SL-505-SA5B-SB-4.0-5.0           Date Analyzed: 07/25/12 15:28
Lab Samp ID: G081-19                          Dilution Factor: 1.00
Lab File ID: 98G07059                         Matrix          : SOIL
Ext Btch ID: IMG023S                          % Moisture     : 10.3
Calib. Ref.: 98G07049                         Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13700	111	13.4
Antimony	0.190J	0.557	0.111
Arsenic	3.84	0.557	0.223
Barium	105	0.557	0.223
Beryllium	0.560	0.557	0.0557
Boron	ND	5.57	2.79
Cadmium	0.279J	0.557	0.0557
Calcium	11100	22.3	11.1
Chromium	19.0	0.557	0.223
Cobalt	6.29	0.557	0.0557
Copper	9.31	0.557	0.223
Iron	20100	111	11.1
Lead	6.53	0.557	0.111
Magnesium	4680	11.1	5.57
Manganese	467	0.557	0.279
Molybdenum	1.15	0.557	0.0557
Nickel	11.3	0.557	0.223
Potassium	2980	111	33.4
Selenium	ND	0.557	0.223
Silver	ND	0.557	0.0557
Sodium	186	111	55.7
Strontium	27.5	0.557	0.279
Thallium	0.251J	0.446	0.0557
Tin	ND	11.1	5.57
Titanium	837	1.11	0.557
Vanadium	35.2	0.557	0.0557
Zinc	50.9	5.57	1.67
Lithium	18.7	2.23	1.11
Phosphorus	297	13.4	6.69
Zirconium	ND	5.57	2.79

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/12/12
Project     : SSFL PHASE - 3                   Date Received: 07/12/12
SDG NO.    : 12G081                           Date Extracted: 07/18/12 11:15
Sample ID: SL-505-SA5B-SB-9.0-10.0           Date Analyzed: 07/25/12 15:47
Lab Samp ID: G081-21                         Dilution Factor: 0.980
Lab File ID: 98G07063                       Matrix          : SOIL
Ext Btch ID: IMG023S                        % Moisture     : 5.2
Calib. Ref.: 98G07061                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	9590	103	12.4
Antimony	0.120J	0.517	0.103
Arsenic	3.78	0.517	0.207
Barium	66.7	0.517	0.207
Beryllium	0.397J	0.517	0.0517
Boron	ND	5.17	2.58
Cadmium	0.144J	0.517	0.0517
Calcium	3230	20.7	10.3
Chromium	13.4	0.517	0.207
Cobalt	5.18	0.517	0.0517
Copper	6.18	0.517	0.207
Iron	18300	103	10.3
Lead	4.92	0.517	0.103
Magnesium	4120	10.3	5.17
Manganese	221	0.517	0.258
Molybdenum	0.731	0.517	0.0517
Nickel	7.55	0.517	0.207
Potassium	3340	103	31.0
Selenium	ND	0.517	0.207
Silver	ND	0.517	0.0517
Sodium	106	103	51.7
Strontium	12.2	0.517	0.258
Thallium	0.245J	0.414	0.0517
Tin	ND	10.3	5.17
Titanium	865	1.03	0.517
Vanadium	26.9	0.517	0.0517
Zinc	49.9	5.17	1.55
Lithium	22.1	2.07	1.03
Phosphorus	331	12.4	6.20
Zirconium	ND	5.17	2.58

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 07/12/12
Project     : SSFL PHASE - 3                   Date Received: 07/12/12
SDG NO.    : 12G081                           Date Extracted: 07/18/12 11:15
Sample ID:  SL-506-SA5B-SB-0.0-0.5           Date Analyzed: 07/25/12 14:15
Lab Samp ID: G081-23                          Dilution Factor: 1.00
Lab File ID: 98G07043                         Matrix          : SOIL
Ext Btch ID: IMG023S                           % Moisture     : 7.2
Calib. Ref.: 98G07037                         Instrument ID  : T-198
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	10600	108	12.9
Antimony	0.184J	0.539	0.108
Arsenic	3.73	0.539	0.216
Barium	93.5	0.539	0.216
Beryllium	0.483J	0.539	0.0539
Boron	ND	5.39	2.69
Cadmium	0.151J	0.539	0.0539
Calcium	7700	21.6	10.8
Chromium	16.2	0.539	0.216
Cobalt	4.69	0.539	0.0539
Copper	7.02	0.539	0.216
Iron	16300	108	10.8
Lead	4.96	0.539	0.108
Magnesium	3450	10.8	5.39
Manganese	247	0.539	0.269
Molybdenum	1.84	0.539	0.0539
Nickel	7.81	0.539	0.216
Potassium	2480	108	32.3
Selenium	ND	0.539	0.216
Silver	ND	0.539	0.0539
Sodium	208	108	53.9
Strontium	34.5	0.539	0.269
Thallium	0.232J	0.431	0.0539
Tin	ND	10.8	5.39
Titanium	832	1.08	0.539
Vanadium	27.1	0.539	0.0539
Zinc	48.2	5.39	1.62
Lithium	14.6	2.16	1.08
Phosphorus	213	12.9	6.47
Zirconium	ND	5.39	2.69

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE - 3                   Date Received: 07/18/12
SDG NO.    : 12G081                           Date Extracted: 07/18/12 11:15
Sample ID: MBLK1S                             Date Analyzed: 07/25/12 13:58
Lab Samp ID: IMG023SB                         Dilution Factor: 1
Lab File ID: 98G07039                        Matrix          : SOIL
Ext Btch ID: IMG023S                          % Moisture     : NA
Calib. Ref.: 98G07037                        Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
SDG NO.: 12G081  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: NA  
DILT N FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMG023SB IMG023SL IMG023SC  
LAB FILE ID: 98G07039 98G07040 98G07041  
DATIME EXTRACTD: 07/18/1211:15 07/18/1211:15 07/18/1211:15 DATE COLLECTED: NA  
DATIME ANALYZD: 07/25/1213:58 07/25/1214:02 07/25/1214:07 DATE RECEIVED: 07/18/12  
PREP. BATCH: IMG023S IMG023S IMG023S  
CALIB. REF: 98G07037 98G07037 98G07037

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2470	99	2500	2490	100	1	80-120	20
Antimony	ND	25.0	23.9	95	25.0	24.4	98	2	80-120	20
Arsenic	ND	25.0	23.1	92	25.0	23.5	94	2	80-120	20
Barium	ND	25.0	24.4	97	25.0	24.9	100	2	80-120	20
Beryllium	ND	25.0	23.9	96	25.0	24.2	97	1	80-120	20
Boron	ND	25.0	24.4	98	25.0	25.1	100	3	80-120	20
Cadmium	ND	25.0	23.6	95	25.0	24.0	96	1	80-120	20
Calcium	ND	2500	2580	103	2500	2630	105	2	80-120	20
Chromium	ND	25.0	23.4	94	25.0	23.6	94	1	80-120	20
Cobalt	ND	25.0	24.0	96	25.0	24.5	98	2	80-120	20
Copper	ND	25.0	22.6	90	25.0	22.9	92	1	80-120	20
Iron	ND	2500	2520	101	2500	2610	104	3	80-120	20
Lead	ND	25.0	24.4	98	25.0	24.6	98	1	80-120	20
Magnesium	ND	2500	2480	99	2500	2500	100	1	80-120	20
Manganese	ND	25.0	24.8	99	25.0	25.2	101	2	80-120	20
Molybdenum	ND	25.0	24.0	96	25.0	24.4	98	2	80-120	20
Nickel	ND	25.0	22.8	91	25.0	23.1	92	1	80-120	20
Potassium	ND	2500	2580	103	2500	2620	105	1	80-120	20
Selenium	ND	25.0	22.8	91	25.0	22.7	91	0	80-120	20
Silver	ND	25.0	24.2	97	25.0	24.6	98	2	80-120	20
Sodium	ND	2500	2450	98	2500	2500	100	2	80-120	20
Strontium	ND	25.0	24.9	100	25.0	25.3	101	1	80-120	20
Thallium	ND	25.0	24.3	97	25.0	24.7	99	2	80-120	20
Tin	ND	25.0	26.6	107	25.0	27.1	109	2	80-120	20
Titanium	ND	25.0	24.4	98	25.0	24.7	99	1	80-120	20
Vanadium	ND	25.0	23.2	93	25.0	23.4	94	1	80-120	20
Zinc	ND	50.0	45.5	91	50.0	46.3	93	2	80-120	20
Lithium	ND	25.0	25.4	101	25.0	25.3	101	0	80-120	20
Phosphorus	ND	250	224	90	250	226	91	1	80-120	20
Zirconium	ND	25.0	25.7	103	25.0	25.9	104	1	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
SDG NO.: 12G081  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.2  
DILTN FACTR: 1.00 0.985 0.980  
SAMPLE ID: SL-506-SA5B-SB-0.0-0.5  
CONTROL NO.: G081-23 G081-23M G081-23S  
LAB FILE ID: 98G07043 98G07051 98G07052  
DATIME EXTRACTD: 07/18/1211:15 07/18/1211:15 07/18/1211:15 DATE COLLECTED: 07/12/12  
DATIME ANALYZD: 07/25/1214:15 07/25/1214:52 07/25/1214:57 DATE RECEIVED: 07/12/12  
PREP. BATCH: IMG023S IMG023S IMG023S  
CALIB. REF: 98G07037 98G07049 98G07049

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	10600	2650	13900	123	2640	14900	163*	7	75-125	20
Antimony	0.184J	26.5	20.2	75	26.4	19.3	72*	4	75-125	20
Arsenic	3.73	26.5	27.3	89	26.4	27.1	89	0	75-125	20
Barium	93.5	26.5	119	95	26.4	119	97	0	75-125	20
Beryllium	0.483J	26.5	26.5	98	26.4	26.2	97	1	75-125	20
Boron	ND	26.5	26.5	100	26.4	26.7	101	1	75-125	20
Cadmium	0.151J	26.5	25.6	96	26.4	25.6	96	0	75-125	20
Calcium	7700	2650	11600	147*	2640	10400	101	11	75-125	20
Chromium	16.2	26.5	39.4	87	26.4	39.9	90	1	75-125	20
Cobalt	4.69	26.5	28.6	90	26.4	28.1	89	2	75-125	20
Copper	7.02	26.5	29.0	83	26.4	29.1	84	1	75-125	20
Iron	16300	2650	19200	109	2640	19100	104	1	75-125	20
Lead	4.96	26.5	31.0	98	26.4	30.7	98	1	75-125	20
Magnesium	3450	2650	5900	93	2640	5970	96	1	75-125	20
Manganese	247	26.5	259	46*	26.4	262	58*	1	75-125	20
Molybdenum	1.84	26.5	26.7	94	26.4	26.9	95	1	75-125	20
Nickel	7.81	26.5	30.1	84	26.4	30.4	86	1	75-125	20
Potassium	2480	2650	5190	102	2640	5150	101	1	75-125	20
Selenium	ND	26.5	24.3	91	26.4	24.0	91	1	75-125	20
Silver	ND	26.5	25.8	97	26.4	25.8	98	0	75-125	20
Sodium	208	2650	2680	93	2640	2610	91	3	75-125	20
Strontium	34.5	26.5	59.5	94	26.4	59.7	95	0	75-125	20
Thallium	0.232J	26.5	26.3	98	26.4	26.2	98	0	75-125	20
Tin	ND	26.5	29.8	112	26.4	29.9	113	0	75-125	20
Titanium	832	26.5	840	31*	26.4	861	109	2	75-125	20
Vanadium	27.1	26.5	51.4	92	26.4	51.0	91	1	75-125	20
Zinc	48.2	53.1	123	142*	52.8	94.3	87	27*	75-125	20
Lithium	14.6	26.5	43.4	109	26.4	43.9	111	1	75-125	20
Phosphorus	213	265	464	95	264	470	97	1	75-125	20
Zirconium	ND	26.5	22.8	86	26.4	23.4	89	3	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
SDG NO.: 12G081  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 7.2  
DILTN FACTR: 1.00 1.00  
SAMPLE ID: SL-506-SA5B-SB-0.0-0.5  
CONTROL NO.: G081-23 G081-23A  
LAB FILE ID: 98G07043 98G07042  
DATIME EXTRACTD: 07/18/1211:15 07/18/1211:15 DATE COLLECTED: 07/12/12  
DATIME ANALYZD: 07/25/1214:15 07/25/1214:11 DATE RECEIVED: 07/12/12  
PREP. BATCH: IMG023S IMG023S  
CALIB. REF: 98G07037 98G07037

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	10600	2690	13100	94	75-125
Antimony	0.184J	26.9	25.7	95	75-125
Arsenic	3.73	26.9	27.2	87	75-125
Barium	93.5	26.9	120	96	75-125
Beryllium	0.483J	26.9	25.7	94	75-125
Boron	ND	26.9	27.7	103	75-125
Cadmium	0.151J	26.9	25.0	92	75-125
Calcium	7700	2690	10500	102	75-125
Chromium	16.2	26.9	39.1	85	75-125
Cobalt	4.69	26.9	28.2	87	75-125
Copper	7.02	26.9	28.6	80	75-125
Iron	16300	2690	19000	98	75-125
Lead	4.96	26.9	30.2	94	75-125
Magnesium	3450	2690	5960	94	75-125
Manganese	247	26.9	268	77	75-125
Molybdenum	1.84	26.9	27.1	94	75-125
Nickel	7.81	26.9	29.8	82	75-125
Potassium	2480	2690	5320	105	75-125
Selenium	ND	26.9	24.0	89	75-125
Silver	ND	26.9	25.0	93	75-125
Sodium	208	2690	2760	95	75-125
Strontium	34.5	26.9	59.5	93	75-125
Thallium	0.232J	26.9	25.5	94	75-125
Tin	ND	26.9	29.4	109	75-125
Titanium	832	26.9	856	90	75-125
Vanadium	27.1	26.9	50.1	86	75-125
Zinc	48.2	53.9	94.3	86	75-125
Lithium	14.6	26.9	41.7	101	75-125
Phosphorus	213	269	471	96	75-125
Zirconium	ND	26.9	27.6	102	75-125

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 7.2  
DILUTION FACTOR: 1.00 5.00  
SAMPLE ID: SL-506-SA5B-SB SL-506-SA5B-SB  
EMAX SAMP ID: G081-23 G081-23J  
LAB FILE ID: 98G07043 98G07044  
DATE EXTRACTED: 07/18/1211:15 07/18/1211:15 DATE COLLECTED: 07/12/12  
DATE ANALYZED: 07/25/1214:15 07/25/1214:20 DATE RECEIVED: 07/12/12  
PREP. BATCH: IMG023S IMG023S  
CALIB. REF: 98G07037 98G07037

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	10600	11100	5	10
Antimony	0.184J	ND	NA	10
Arsenic	3.73	3.87	4	10
Barium	93.5	89.5	4	10
Beryllium	0.483J	0.503J	NA	10
Boron	ND	ND	0	10
Cadmium	0.151J	ND	NA	10
Calcium	7700	8120	5	10
Chromium	16.2	17.1	5	10
Cobalt	4.69	5.08	8	10
Copper	7.02	7.63	9	10
Iron	16300	17600	8	10
Lead	4.96	5.10	3	10
Magnesium	3450	3620	5	10
Manganese	247	267	8	10
Molybdenum	1.84	1.82J	NA	10
Nickel	7.81	8.45	8	10
Potassium	2480	2590	4	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	208	ND	NA	10
Strontium	34.5	33.1	4	10
Thallium	0.232J	ND	NA	10
Tin	ND	ND	0	10
Titanium	832	851	2	10
Vanadium	27.1	28.2	4	10
Zinc	48.2	51.0	6	10
Lithium	14.6	14.7	1	10
Phosphorus	213	233	10	10
Zirconium	ND	ND	0	10

METHOD 7470A  
 MERCURY BY COLD VAPOR

=====  
 Client : CDM  
 Project : SSFL PHASE - 3  
 Batch No. : 12G081  
 =====

Matrix : WATER  
 Instrument ID : TI047  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGG013WB	ND	1	NA	0.000500	0.000100	07/16/1217:40	07/16/1210:45	M47G014010	M47G014008	HGG013W	NA	07/16/12
LCS1W	HGG013WL	0.00488	1	NA	0.000500	0.000100	07/16/1217:42	07/16/1210:45	M47G014011	M47G014008	HGG013W	NA	07/16/12
LCD1W	HGG013WC	0.00491	1	NA	0.000500	0.000100	07/16/1217:44	07/16/1210:45	M47G014012	M47G014008	HGG013W	NA	07/16/12
EB-071212	G081-01	ND	1	NA	0.000500	0.000100	07/16/1218:23	07/16/1210:45	M47G014030	M47G014020	HGG013W	07/12/12	07/12/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
SDG NO.: 12G081  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGG013WB HGG013WL HGG013WC  
LAB FILE ID: M47G014010 M47G014011 M47G014012  
DATIME EXTRCTD: 07/16/1210:45 07/16/1210:45 07/16/1210:45 DATE COLLECTED: NA  
DATIME ANALYZD: 07/16/1217:40 07/16/1217:42 07/16/1217:44 DATE RECEIVED: 07/16/12  
PREP. BATCH: HGG013W HGG013W HGG013W  
CALIB. REF: M47G014008 M47G014008 M47G014008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00488	98	.005	.00491	98	1	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE - 3  
Batch No. : 12G081

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGG021SB	ND	1	NA	0.100	0.0500	07/20/1211:13	07/19/1214:30	M47G019041	M47G019032	HGG021S	NA	07/19/12
LCS1S	HGG021SL	0.822	1	NA	0.100	0.0500	07/20/1211:15	07/19/1214:30	M47G019042	M47G019032	HGG021S	NA	07/19/12
LCD1S	HGG021SC	0.822	1	NA	0.100	0.0500	07/20/1211:17	07/19/1214:30	M47G019043	M47G019032	HGG021S	NA	07/19/12
SL-508-SA5B-SB-0.0-0.5	G081-03	ND	1.00	NA	0.100	0.0500	07/20/1211:53	07/19/1214:30	M47G019060	M47G019056	HGG021S	07/12/12	07/12/12
SL-508-SA5B-SB-4.0-5.0	G081-04	ND	1.00	NA	0.100	0.0500	07/20/1211:55	07/19/1214:30	M47G019061	M47G019056	HGG021S	07/12/12	07/12/12
SL-508-SA5B-SB-7.5-8.5	G081-06	ND	1.00	NA	0.100	0.0500	07/20/1211:58	07/19/1214:30	M47G019062	M47G019056	HGG021S	07/12/12	07/12/12
SL-502-SA5B-SB-0.0-0.5	G081-08	ND	1.00	NA	0.100	0.0500	07/20/1212:00	07/19/1214:30	M47G019063	M47G019056	HGG021S	07/12/12	07/12/12
SL-502-SA5B-SB-4.0-5.0	G081-09	ND	0.998	NA	0.0998	0.0499	07/20/1212:02	07/19/1214:30	M47G019064	M47G019056	HGG021S	07/12/12	07/12/12
SL-502-SA5B-SB-9.0-10.0	G081-11	ND	1.00	NA	0.100	0.0500	07/20/1212:04	07/19/1214:30	M47G019065	M47G019056	HGG021S	07/12/12	07/12/12
SL-505-SA5B-SB-0.0-0.5	G081-18	ND	1.01	NA	0.101	0.0505	07/20/1212:06	07/19/1214:30	M47G019066	M47G019056	HGG021S	07/12/12	07/12/12
SL-505-SA5B-SB-4.0-5.0	G081-19	ND	0.998	NA	0.0998	0.0499	07/20/1212:08	07/19/1214:30	M47G019067	M47G019056	HGG021S	07/12/12	07/12/12
SL-505-SA5B-SB-9.0-10.0	G081-21	ND	1.00	NA	0.100	0.0500	07/20/1212:15	07/19/1214:30	M47G019070	M47G019068	HGG021S	07/12/12	07/12/12
SL-506-SA5B-SB-0.0-0.5	G081-23	ND	1.00	NA	0.100	0.0500	07/20/1212:17	07/19/1214:30	M47G019071	M47G019068	HGG021S	07/12/12	07/12/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
SDG NO.: 12G081  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGG021SB HGG021SL HGG021SC  
LAB FILE ID: M47G019041 M47G019042 M47G019043  
DATIME EXTRCTD: 07/19/1214:30 07/19/1214:30 07/19/1214:30 DATE COLLECTED: NA  
DATIME ANALYZD: 07/20/1211:13 07/20/1211:15 07/20/1211:17 DATE RECEIVED: 07/19/12  
PREP. BATCH: HGG021S HGG021S HGG021S  
CALIB. REF: M47G019032 M47G019032 M47G019032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.822	99	.833	.822	99	0	85-120	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
SDG NO.: 12G081  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.7  
DILTN FACTR: 0.998 0.998  
SAMPLE ID: SL-591-SA5C-SB-4.0-5.0  
CONTROL NO.: G064-08 G064-08A  
LAB FILE ID: M47G019047 M47G019046  
DATIME EXTRACTD: 07/19/1214:30 07/19/1214:30 DATE COLLECTED: 07/11/12  
DATIME ANALYZD: 07/20/1211:25 07/20/1211:23 DATE RECEIVED: 07/11/12  
PREP. BATCH: HGG021S HGG021S  
CALIB. REF: M47G019044 M47G019044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.931	.95	102	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE - 3  
 BATCH NO.: 12G081  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.7  
 DILUTION FACTOR: 0.998 4.99  
 SAMPLE ID: SL-591-SA5C-SB-4.0- SL-591-SA5C-SB-4.0-  
 EMAX SAMP ID: G064-08 G064-08J  
 LAB FILE ID: M47G019047 M47G019048  
 DATE EXTRACTED: 07/19/1214:30 07/19/1214:30 DATE COLLECTED: 07/11/12  
 DATE ANALYZED: 07/20/1211:25 07/20/1211:27 DATE RECEIVED: 07/11/12  
 PREP. BATCH: HGG021S HGG021S  
 CALIB. REF: M47G019044 M47G019044

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE - 3  
 Batch No. : 12G081  
 =====

Matrix : WATER  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLG003WB	ND	1	NA	0.200	0.100	07/19/1212:18	NA	MG19004	MG19003	PLG003W	NA	NA
LCS1W	PLG003WL	0.953	1	NA	0.200	0.100	07/19/1212:32	NA	MG19005	MG19003	PLG003W	NA	NA
LCD1W	PLG003WC	0.969	1	NA	0.200	0.100	07/19/1212:46	NA	MG19006	MG19003	PLG003W	NA	NA
EB-071212	G081-01	ND	1	NA	0.200	0.100	07/19/1214:18	NA	MG19012	MG19003	PLG003W	07/12/1214:00	07/12/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLG003WB PLG003WL PLG003WC  
LAB FILE ID: MG19004 MG19005 MG19006  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 07/19/1212:18 07/19/1212:32 07/19/1212:46 DATE RECEIVED: NA  
PREP. BATCH: PLG003W PLG003W PLG003W  
CALIB. REF: MG19003 MG19003 MG19003

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	0.953	95	1.00	0.969	97	2	85-115	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE - 3  
 Batch No. : 12G081  
 =====

Matrix : WATER  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCG009WB	ND	1	NA	0.200	0.100	07/12/1210:35	NA	IG12003	IG12001	HCG009W	NA	NA
LCS1W	HCG009WL	1.86	1	NA	0.200	0.100	07/12/1211:16	NA	IG12007	IG12001	HCG009W	NA	NA
LCD1W	HCG009WC	1.92	1	NA	0.200	0.100	07/12/1211:37	NA	IG12009	IG12001	HCG009W	NA	NA
EB-071212	G081-01	ND	1	NA	0.200	0.100	07/12/1218:08	NA	IG12027	IG12021	HCG009W	07/12/1214:00	07/12/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
BATCH NO.: 12G081  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCG009WB HCG009WL HCG009WC  
LAB FILE ID: IG12003 IG12007 IG12009  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 07/12/1210:35 07/12/1211:16 07/12/1211:37 DATE RECEIVED: NA  
PREP. BATCH: HCG009W HCG009W HCG009W  
CALIB. REF: IG12001 IG12001 IG12001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.86	93	2.00	1.92	96	3	80-120	20

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE - 3  
Batch No. : 12G081  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB-071212	G081-01	5.75	1 NA	NA	NA	07/12/1218:21	NA	12PHG011W01	12PHG011	PHG011W	07/12/1214:00	07/12/12
EB-071212DUP	G081-01D	5.74	1 NA	NA	NA	07/12/1218:22	NA	12PHG011W02	12PHG011	PHG011W	07/12/1214:00	07/12/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.:	12G081	DATE RECEIVED:	07/12/12
SAMPLE ID:	EB-071212DUP	DATE EXTRACTED:	NA
CONTROL NO.:	G081-01D	DATE ANALYZED:	07/12/12 18:22

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	5.75	5.74	0.01	+/-0.10

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE - 3  
Batch No. : 12G081  
=====

Matrix : SOIL  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST	RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
SL-502-SA5B-SB-0.0-0.5	G081-08	7.55	1 NA	NA	NA	07/13/1217:08	07/13/1213:15	12PHG010S09	12PHG010	PHG010S	07/12/1209:35	07/12/12
SL-502-SA5B-SB-4.0-5.0	G081-09	7.83	1 NA	NA	NA	07/13/1217:09	07/13/1213:15	12PHG010S10	12PHG010	PHG010S	07/12/1209:25	07/12/12
SL-502-SA5B-SB-9.0-10.0	G081-11	8.55	1 NA	NA	NA	07/13/1217:10	07/13/1213:15	12PHG010S11	12PHG010	PHG010S	07/12/1209:30	07/12/12
SL-505-SA5B-SB-0.0-0.5	G081-18	7.91	1 NA	NA	NA	07/13/1217:11	07/13/1213:15	12PHG010S12	12PHG010	PHG010S	07/12/1213:45	07/12/12
SL-505-SA5B-SB-4.0-5.0	G081-19	8.20	1 NA	NA	NA	07/13/1217:12	07/13/1213:15	12PHG010S13	12PHG010	PHG010S	07/12/1213:50	07/12/12
SL-505-SA5B-SB-4.0-5.0	DUPG081-19D	8.19	1 NA	NA	NA	07/13/1217:13	07/13/1213:15	12PHG010S14	12PHG010	PHG010S	07/12/1213:50	07/12/12
SL-505-SA5B-SB-9.0-10.0	G081-21	8.11	1 NA	NA	NA	07/13/1217:14	07/13/1213:15	12PHG010S15	12PHG010	PHG010S	07/12/1213:55	07/12/12
SL-506-SA5B-SB-0.0-0.5	G081-23	9.85	1 NA	NA	NA	07/13/1217:15	07/13/1213:15	12PHG010S16	12PHG010	PHG010S	07/12/1213:20	07/12/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE - 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.: 12G081                      DATE RECEIVED: 07/12/12  
SAMPLE ID: SL-505-SA5B-SB-4.0-5.0DUP      DATE EXTRACTED: 07/13/12 13:15  
CONTROL NO.: G081-19D                      DATE ANALYZED: 07/13/12 17:13

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	8.20	8.19	0.01	+/-0.10

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 11:32
Sample ID:   SL-583-SA5C-SB-0.0-0.5           Date Analyzed: 08/06/12 15:05
Lab Samp ID: G199-01                           Dilution Factor: 3
Lab File ID: RHJ045                             Matrix          : SOIL
Ext Btch ID: SVH006S                           % Moisture     : 9.4
Calib. Ref.: RGJ007                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	33	8.3
ACENAPHTHYLENE	ND	33	8.3
ANTHRACENE	ND	33	8.3
BENZO (A) ANTHRACENE	ND	33	8.3
BENZO (A) PYRENE	10J	33	8.3
BENZO (B) FLUORANTHENE	ND	33	8.3
BENZO (K) FLUORANTHENE	11J	33	8.3
BENZO (G, H, I) PERYLENE	11J	33	8.3
CHRYSENE	ND	33	8.3
DIBENZO (A, H) ANTHRACENE	ND	33	8.3
FLUORANTHENE	ND	33	8.3
FLUORENE	ND	33	8.3
INDENO (1, 2, 3-CD) PYRENE	ND	33	8.3
NAPHTHALENE	ND	33	8.3
PHENANTHRENE	9.9J	33	8.3
2-METHYLNAPHTHALENE	31J	33	8.3
1-METHYLNAPHTHALENE	24J	33	8.3
N-NITROSODIMETHYLAMINE	ND	33	8.3
PYRENE	ND	33	8.3
AZOBENZENE	ND	17	8.3
BENZO (E) PYRENE	11J	17	8.3
BIPHENYL	ND	17	8.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	270	367.9	73.4	40-130
2-FLUOROBIPHENYL	233	367.9	63.4	45-130
TERPHENYL-D14	340	367.9	92.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 11:32
Sample ID:   SL-583-SA5C-SB-4.0-5.0           Date Analyzed: 08/06/12 15:25
Lab Samp ID: G199-02                           Dilution Factor: 3
Lab File ID: RHJ046                            Matrix          : SOIL
Ext Btch ID: SVH006S                           % Moisture     : 17.0
Calib. Ref.: RGJ007                            Instrument ID   : T-OE4
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	36	9.0
ACENAPHTHYLENE	ND	36	9.0
ANTHRACENE	ND	36	9.0
BENZO (A) ANTHRACENE	ND	36	9.0
BENZO (A) PYRENE	ND	36	9.0
BENZO (B) FLUORANTHENE	ND	36	9.0
BENZO (K) FLUORANTHENE	ND	36	9.0
BENZO (G, H, I) PERYLENE	ND	36	9.0
CHRYSENE	ND	36	9.0
DIBENZO (A, H) ANTHRACENE	ND	36	9.0
FLUORANTHENE	ND	36	9.0
FLUORENE	ND	36	9.0
INDENO (1, 2, 3-CD) PYRENE	ND	36	9.0
NAPHTHALENE	ND	36	9.0
PHENANTHRENE	ND	36	9.0
2-METHYLNAPHTHALENE	9.6J	36	9.0
1-METHYLNAPHTHALENE	ND	36	9.0
N-NITROSODIMETHYLAMINE	ND	36	9.0
PYRENE	ND	36	9.0
AZOBENZENE	ND	18	9.0
BENZO (E) PYRENE	ND	18	9.0
BIPHENYL	ND	18	9.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	261	401.6	65.0	40-130
2-FLUOROBIPHENYL	240	401.6	59.7	45-130
TERPHENYL-D14	372	401.6	92.6	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 11:32
Sample ID:   SL-741-SA5C-SB-0.0-0.5           Date Analyzed: 08/06/12 15:44
Lab Samp ID: G199-03                           Dilution Factor: 3
Lab File ID: RHJ047                             Matrix          : SOIL
Ext Btch ID: SVH006S                            % Moisture     : 9.4
Calib. Ref.: RGJ007                             Instrument ID   : T-OE4
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	33	8.3
ACENAPHTHYLENE	ND	33	8.3
ANTHRACENE	ND	33	8.3
BENZO (A) ANTHRACENE	ND	33	8.3
BENZO (A) PYRENE	ND	33	8.3
BENZO (B) FLUORANTHENE	ND	33	8.3
BENZO (K) FLUORANTHENE	ND	33	8.3
BENZO (G, H, I) PERYLENE	ND	33	8.3
CHRYSENE	ND	33	8.3
DIBENZO (A, H) ANTHRACENE	ND	33	8.3
FLUORANTHENE	ND	33	8.3
FLUORENE	ND	33	8.3
INDENO (1, 2, 3-CD) PYRENE	ND	33	8.3
NAPHTHALENE	ND	33	8.3
PHENANTHRENE	ND	33	8.3
2-METHYLNAPHTHALENE	ND	33	8.3
1-METHYLNAPHTHALENE	ND	33	8.3
N-NITROSODIMETHYLAMINE	ND	33	8.3
PYRENE	ND	33	8.3
AZOBENZENE	ND	17	8.3
BENZO (E) PYRENE	ND	17	8.3
BIPHENYL	ND	17	8.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	223	367.9	60.6	40-130
2-FLUOROBIPHENYL	223	367.9	60.5	45-130
TERPHENYL-D14	267	367.9	72.5	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 11:32
Sample ID:   SL-741-SA5C-SB-4.0-5.0           Date Analyzed: 08/06/12 16:04
Lab Samp ID: G199-04                           Dilution Factor: 1
Lab File ID: RHJ048                            Matrix          : SOIL
Ext Btch ID: SVH006S                           % Moisture     : 11.4
Calib. Ref.: RGJ007                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	242	376.2	64.3	40-130
2-FLUOROBIPHENYL	191	376.2	50.8	45-130
TERPHENYL-D14	272	376.2	72.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 11:32
Sample ID:   SL-741-SA5C-SB-9.0-10.0          Date Analyzed: 08/06/12 16:23
Lab Samp ID: G199-05                           Dilution Factor: 3
Lab File ID: RHJ049                            Matrix          : SOIL
Ext Btch ID: SVH006S                           % Moisture     : 12.6
Calib. Ref.: RGJ007                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	34	8.6
ACENAPHTHYLENE	ND	34	8.6
ANTHRACENE	ND	34	8.6
BENZO (A) ANTHRACENE	ND	34	8.6
BENZO (A) PYRENE	ND	34	8.6
BENZO (B) FLUORANTHENE	ND	34	8.6
BENZO (K) FLUORANTHENE	ND	34	8.6
BENZO (G, H, I) PERYLENE	ND	34	8.6
CHRYSENE	ND	34	8.6
DIBENZO (A, H) ANTHRACENE	ND	34	8.6
FLUORANTHENE	ND	34	8.6
FLUORENE	ND	34	8.6
INDENO (1, 2, 3-CD) PYRENE	ND	34	8.6
NAPHTHALENE	ND	34	8.6
PHENANTHRENE	ND	34	8.6
2-METHYLNAPHTHALENE	ND	34	8.6
1-METHYLNAPHTHALENE	ND	34	8.6
N-NITROSODIMETHYLAMINE	ND	34	8.6
PYRENE	ND	34	8.6
AZOBENZENE	ND	17	8.6
BENZO (E) PYRENE	ND	17	8.6
BIPHENYL	ND	17	8.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	176	381.4	46.2	40-130
2-FLUOROBIPHENYL	192	381.4	50.2	45-130
TERPHENYL-D14	348	381.4	91.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 11:32
Sample ID:   SL-742-SA5C-SB-0.0-0.5           Date Analyzed: 08/06/12 16:43
Lab Samp ID: G199-08                           Dilution Factor: 3
Lab File ID: RHJ050                             Matrix          : SOIL
Ext Btch ID: SVH006S                           % Moisture     : 8.2
Calib. Ref.: RGJ007                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	33	8.2
ACENAPHTHYLENE	ND	33	8.2
ANTHRACENE	ND	33	8.2
BENZO (A) ANTHRACENE	ND	33	8.2
BENZO (A) PYRENE	ND	33	8.2
BENZO (B) FLUORANTHENE	ND	33	8.2
BENZO (K) FLUORANTHENE	ND	33	8.2
BENZO (G, H, I) PERYLENE	ND	33	8.2
CHRYSENE	ND	33	8.2
DIBENZO (A, H) ANTHRACENE	ND	33	8.2
FLUORANTHENE	ND	33	8.2
FLUORENE	ND	33	8.2
INDENO (1, 2, 3-CD) PYRENE	ND	33	8.2
NAPHTHALENE	ND	33	8.2
PHENANTHRENE	15J	33	8.2
2-METHYLNAPHTHALENE	ND	33	8.2
1-METHYLNAPHTHALENE	ND	33	8.2
N-NITROSODIMETHYLAMINE	ND	33	8.2
PYRENE	8.9J	33	8.2
AZOBENZENE	ND	16	8.2
BENZO (E) PYRENE	ND	16	8.2
BIPHENYL	ND	16	8.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	219	363.1	60.4	40-130
2-FLUOROBIPHENYL	227	363.1	62.5	45-130
TERPHENYL-D14	300	363.1	82.7	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 08/04/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 11:32
Sample ID    : MBLK1S                            Date Analyzed: 08/06/12 13:28
Lab Samp ID  : SVH006SB                          Dilution Factor: 1
Lab File ID  : RHJ040                            Matrix          : SOIL
Ext Btch ID  : SVH006S                           % Moisture     : NA
Calib. Ref.  : RGJ007                            Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	323	333.3	97.0	40-130
2-FLUOROBIPHENYL	281	333.3	84.3	45-130
TERPHENYL-D14	352	333.3	106	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G199  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVH006SB SVH006SL SVH006SC  
LAB FILE ID: RHJ040 RHJ041 RHJ042  
DATE EXTRACTED: 08/04/1211:32 08/04/1211:32 08/04/1211:32 DATE COLLECTED: NA  
DATE ANALYZED: 08/06/1213:28 08/06/1213:47 08/06/1214:07 DATE RECEIVED: 08/04/12  
PREP. BATCH: SVH006S SVH006S SVH006S  
CALIB. REF: RGJ007 RGJ007 RGJ007

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	288	86	333	232	70	22	10-130	50
Acenaphthylene	ND	333	324	97	333	255	76	24	20-130	50
Anthracene	ND	333	275	83	333	236	71	15	20-130	50
Benzo (a) anthracene	ND	333	301	90	333	310	93	3	30-130	50
Benzo (a) pyrene	ND	333	336	101	333	298	89	12	30-130	50
Benzo (b) fluoranthene	ND	333	341	102	333	313	94	9	40-130	50
Benzo (k) fluoranthene	ND	333	312	94	333	280	84	11	30-140	50
Benzo (g, h, i) perylene	ND	333	347	104	333	300	90	14	30-140	50
Chrysene	ND	333	301	90	333	308	92	2	30-140	50
Dibenzo (a, h) anthracene	ND	333	338	101	333	292	88	14	40-140	50
Fluoranthene	ND	333	290	87	333	299	90	3	30-130	50
Fluorene	ND	333	293	88	333	247	74	17	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	353	106	333	305	92	15	20-160	50
Naphthalene	ND	333	276	83	333	246	74	12	10-130	50
Phenanthrene	ND	333	285	85	333	245	74	15	20-130	50
2-Methylnaphthalene	ND	333	296	89	333	260	78	13	30-150	50
1-Methylnaphthalene	ND	333	297	89	333	255	77	15	30-150	50
N-Nitrosodimethylamine	ND	333	274	82	333	222	67	21	30-150	50
Pyrene	ND	333	283	85	333	288	86	2	20-150	50
Azobenzene	ND	333	310	93	333	259	78	18	30-150	50
Benzo (e) pyrene	ND	333	380	114	333	355	106	7	30-150	50
Biphenyl	ND	333	325	98	333	287	86	12	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	311	93	333	270	81	40-130
2-Fluorobiphenyl	333	281	84	333	241	72	45-130
Terphenyl-d14	333	327	98	333	328	98	45-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 07/27/12 07:59
Sample ID    : SL-741-SA5C-SB-4.5              Date Analyzed: 07/27/12 07:59
Lab Samp ID  : G199-06                          Dilution Factor: 0.82
Lab File ID  : EG24086A                        Matrix          : SOIL
Ext Btch ID  : GMG017S                         % Moisture     : 12.3
Calib. Ref.  : EG24085A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.94	0.47
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.49	1.870	79.9 70-140

RL : Reporting Limit  
 Methanol Extraction: 07/25/12 16:59

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 07/27/12 08:41
Sample ID:   SL-741-SA5C-SB-9.5                 Date Analyzed: 07/27/12 08:41
Lab Samp ID: G199-07                             Dilution Factor: 0.98
Lab File ID: EG24087A                            Matrix          : SOIL
Ext Btch ID: GMG017S                             % Moisture     : 13.6
Calib. Ref.: EG24085A                            Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.57
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.83	2.269	80.6 70-140

RL : Reporting Limit  
 Methanol Extraction: 07/25/12 16:59

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 07/26/12
Batch No.    : 12G199                             Date Extracted: 07/26/12 20:36
Sample ID    : MBLK1S                             Date Analyzed: 07/26/12 20:36
Lab Samp ID  : GMG017SB                           Dilution Factor: 1
Lab File ID  : EG24070A                           Matrix          : SOIL
Ext Btch ID  : GMG017S                             % Moisture      : NA
Calib. Ref.  : EG24063A                           Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.79	2.000	89.7 60-130

RL : Reporting Limit  
 Methanol Extraction: 07/25/12 16:59

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G199  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GMG017SB GMG017SL GMG017SC  
LAB FILE ID: EG24070A EG24072A EG24073A  
DATE EXTRACTED: 07/26/1220:36 07/26/1222:02 07/26/1222:44 DATE COLLECTED: NA  
DATE ANALYZED: 07/26/1220:36 07/26/1222:02 07/26/1222:44 DATE RECEIVED: 07/26/12  
PREP. BATCH: GMG017S GMG017S GMG017S  
CALIB. REF: EG24063A EG24063A EG24063A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	21.7	87	25.0	21.5	86	1	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.24	112	2.00	2.32	116	60-130

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 10:43
Sample ID    : SL-741-SA5C-SB-0.0-0.5          Date Analyzed: 08/06/12 12:51
Lab Samp ID  : G199-03                          Dilution Factor: 1
Lab File ID  : LH06013A                        Matrix          : SOIL
Ext Btch ID  : DSH006S                         % Moisture     : 9.4
Calib. Ref.  : LH06003A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	22	5.5	2.8
EFH(C30-C40)	76	11	5.5
TOTAL EFH(C8-C40)	98	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	66.5	110.4	60.3	50-150
HEXACOSANE	27.0	27.59	98.0	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 10:43
Sample ID    : SL-741-SA5C-SB-4.0-5.0          Date Analyzed: 08/06/12 12:17
Lab Samp ID  : G199-04                           Dilution Factor: 1
Lab File ID  : LH06011A                         Matrix          : SOIL
Ext Btch ID  : DSH006S                          % Moisture     : 11.4
Calib. Ref.  : LH06003A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	3.3J	5.6	2.8
EFH(C30-C40)	15	11	5.6
TOTAL EFH(C8-C40)	18	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	84.8	112.9	75.1	50-150
HEXACOSANE	29.5	28.22	104	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                       Date Received: 07/24/12
Batch No.    : 12G199                             Date Extracted: 08/04/12 10:43
Sample ID    : SL-741-SA5C-SB-9.0-10.0           Date Analyzed: 08/06/12 12:34
Lab Samp ID  : G199-05                             Dilution Factor: 1
Lab File ID  : LH06012A                           Matrix          : SOIL
Ext Btch ID  : DSH006S                             % Moisture      : 12.6
Calib. Ref.  : LH06003A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	12	5.7	2.9
EFH(C30-C40)	28	11	5.7
TOTAL EFH(C8-C40)	40	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.7	114.4	68.8	50-150
HEXACOSANE	26.9	28.60	94.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 10:43
Sample ID    : SL-742-SA5C-SB-0.0-0.5          Date Analyzed: 08/06/12 13:08
Lab Samp ID  : G199-08                           Dilution Factor: 1
Lab File ID  : LH06014A                         Matrix          : SOIL
Ext Btch ID  : DSH006S                          % Moisture     : 8.2
Calib. Ref.  : LH06003A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.4	2.7
EFH(C12-C14)	ND	5.4	2.7
EFH(C15-C20)	ND	5.4	2.7
EFH(C21-C30)	19	5.4	2.7
EFH(C30-C40)	79	11	5.4
TOTAL EFH(C8-C40)	98	5.4	2.7

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	73.9	108.9	67.9	50-150
HEXACOSANE	29.0	27.23	106	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 08/04/12
Batch No.    : 12G199                             Date Extracted: 08/04/12 10:43
Sample ID    : MBLK1S                             Date Analyzed: 08/06/12 10:36
Lab Samp ID  : DSH006SB                           Dilution Factor: 1
Lab File ID  : LH06005A                           Matrix          : SOIL
Ext Btch ID  : DSH006S                             % Moisture     : NA
Calib. Ref.  : LH06003A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	76.6	100.0	76.6	50-150
HEXACOSANE	24.7	25.00	98.9	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G199  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSH006SB DSH006SL DSH006SC  
LAB FILE ID: LH06005A LH06006A LH06007A  
DATE EXTRACTED: 08/04/1210:43 08/04/1210:43 08/04/1210:43 DATE COLLECTED: NA  
DATE ANALYZED: 08/06/1210:36 08/06/1210:53 08/06/1211:10 DATE RECEIVED: 08/04/12  
PREP. BATCH: DSH006S DSH006S DSH006S  
CALIB. REF: LH06003A LH06003A LH06003A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	435	87	500	449	90	3	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	84.7	85	100	84.3	84	50-150
Hexacosane	25.0	25.5	102	25.0	24.9	100	50-150

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 13:05
Sample ID    : SL-741-SA5C-SB-0.0-0.5          Date Analyzed: 08/08/12 05:09
Lab Samp ID  : G199-03                          Dilution Factor: 1
Lab File ID  : SH07034A                         Matrix          : SOIL
Ext Btch ID  : CPH013S                          % Moisture     : 9.4
Calib. Ref.  : SH07023A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.70)   15.64	14.71	(107)   106	45-120
TETRACHLORO-M-XYLENE	15.47   (17.64)	14.71	105   (120)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 13:05
Sample ID    : SL-741-SA5C-SB-4.0-5.0          Date Analyzed: 08/08/12 05:43
Lab Samp ID  : G199-04                          Dilution Factor: 1
Lab File ID  : SH07035A                         Matrix          : SOIL
Ext Btch ID  : CPH013S                          % Moisture     : 11.4
Calib. Ref.  : SH07023A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.47)   15.34	15.05	(103)   102	45-120
TETRACHLORO-M-XYLENE	13.40   (15.35)	15.05	89.1   (102)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 07/24/12
Project     : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.   : 12G199                           Date Extracted: 08/04/12 13:05
Sample ID   : SL-741-SA5C-SB-9.0-10.0         Date Analyzed: 08/08/12 06:17
Lab Samp ID : G199-05                           Dilution Factor: 1
Lab File ID : SH07036A                          Matrix          : SOIL
Ext Btch ID : CPH013S                           % Moisture     : 12.6
Calib. Ref. : SH07023A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(16.12)   16.08	15.25	(106)   105	45-120
TETRACHLORO-M-XYLENE	14.98   (17.25)	15.25	98.2   (113)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 13:05
Sample ID    : SL-742-SA5C-SB-0.0-0.5          Date Analyzed: 08/08/12 06:51
Lab Samp ID  : G199-08                           Dilution Factor: 1
Lab File ID  : SH07037A                          Matrix          : SOIL
Ext Btch ID  : CPH013S                           % Moisture     : 8.2
Calib. Ref.  : SH07023A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.29)   15.23	14.52	(105)   105	45-120
TETRACHLORO-M-XYLENE	14.16   (16.31)	14.52	97.5   (112)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 08/04/12
Batch No.    : 12G199                           Date Extracted: 08/04/12 13:05
Sample ID    : MBLK1S                           Date Analyzed: 08/07/12 13:09
Lab Samp ID  : 60H013SB                         Dilution Factor: 1
Lab File ID  : SH07006A                         Matrix          : SOIL
Ext Btch ID  : CPH013S                          % Moisture     : NA
Calib. Ref.  : SH07003A                         Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(15.45)   16.44	13.33	(116)   123*	45-120
TETRACHLORO-M-XYLENE	12.44   (14.39)	13.33	93.3   (108)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G199  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60H013SB 60H013SL 60H013SC  
LAB FILE ID: SH07006A SH07007A SH07008A  
DATE EXTRACTED: 08/04/1213:05 08/04/1213:05 08/04/1213:05 DATE COLLECTED: NA  
DATE ANALYZED: 08/07/1213:09 08/07/1213:44 08/07/1214:18 DATE RECEIVED: 08/04/12  
PREP. BATCH: CPH013S CPH013S CPH013S  
CALIB. REF: SH07003A SH07003A SH07003A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(175)   164	(105)   98	167	172   (174)	103   (104)	2   (6)	50-130	50
Aroclor 1260	(ND)   ND	167	192   (195)	115   (117)	167	186   (190)	112   (114)	3   (3)	60-150	50
Aroclor 5460	(ND)   ND	83.3	(108)   92.1	(130)   111	83.3	(96.7)   89.3	(116)   107	(11)   3	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	(15.45)   16.09	(116)   121*	13.33	(15.68)   16.68	(118)   125*	45-120
Tetrachloro-m-xylene	13.33	13.81   (15.40)	104   (116)	13.33	13.01   (14.53)	97.6   (109)	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
SDG NO.     : 12G199                            Date Extracted: 08/03/12 15:00
Sample ID   : SL-583-SA5C-SB-0.0-0.5          Date Analyzed: 08/08/12 18:58
Lab Samp ID : G199-01                           Dilution Factor: 0.990
Lab File ID : 98H06035                         Matrix          : SOIL
Ext Btch ID : IMH008S                          % Moisture     : 9.4
Calib. Ref. : 98H06032                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	14500	109	13.1
Antimony	0.240J	0.546	0.109
Arsenic	3.37	0.546	0.219
Barium	86.4	0.546	0.219
Beryllium	0.533J	0.546	0.0546
Boron	ND	5.46	2.73
Cadmium	0.248J	0.546	0.0546
Calcium	3500	21.9	10.9
Chromium	18.5	0.546	0.219
Cobalt	8.16	0.546	0.0546
Copper	11.2	0.546	0.219
Iron	22600	109	10.9
Lead	6.82	0.546	0.109
Magnesium	5510	10.9	5.46
Manganese	268	0.546	0.273
Molybdenum	0.735	0.546	0.0546
Nickel	11.4	0.546	0.219
Potassium	2280	109	32.8
Selenium	ND	0.546	0.219
Silver	ND	0.546	0.0546
Sodium	121	109	54.6
Strontium	21.8	0.546	0.273
Thallium	0.254J	0.437	0.0546
Tin	ND	10.9	5.46
Titanium	905	1.09	0.546
Vanadium	43.1	0.546	0.0546
Zinc	44.4	5.46	1.64
Lithium	13.5	2.19	1.09
Phosphorus	375	13.1	6.56
Zirconium	ND	5.46	2.73

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/24/12
Project     : SSFL PHASE 3                     Date Received: 07/24/12
SDG NO.    : 12G199                           Date Extracted: 08/03/12 15:00
Sample ID:  SL-583-SA5C-SB-4.0-5.0           Date Analyzed: 08/08/12 19:02
Lab Samp ID: G199-02                         Dilution Factor: 0.990
Lab File ID: 98H06036                       Matrix          : SOIL
Ext Btch ID: IMH008S                        % Moisture     : 17.0
Calib. Ref.: 98H06032                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	23300	119	14.3
Antimony	0.268J	0.596	0.119
Arsenic	4.62	0.596	0.239
Barium	133	0.596	0.239
Beryllium	0.829	0.596	0.0596
Boron	4.94J	5.96	2.98
Cadmium	0.398J	0.596	0.0596
Calcium	5570	23.9	11.9
Chromium	28.1	0.596	0.239
Cobalt	8.59	0.596	0.0596
Copper	13.7	0.596	0.239
Iron	26300	119	11.9
Lead	8.81	0.596	0.119
Magnesium	6070	11.9	5.96
Manganese	341	0.596	0.298
Molybdenum	0.896	0.596	0.0596
Nickel	16.8	0.596	0.239
Potassium	4090	119	35.8
Selenium	ND	0.596	0.239
Silver	ND	0.596	0.0596
Sodium	160	119	59.6
Strontium	35.0	0.596	0.298
Thallium	0.314J	0.477	0.0596
Tin	ND	11.9	5.96
Titanium	784	1.19	0.596
Vanadium	52.4	0.596	0.0596
Zinc	59.4	5.96	1.79
Lithium	20.2	2.39	1.19
Phosphorus	321	14.3	7.16
Zirconium	ND	5.96	2.98

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
SDG NO.     : 12G199                           Date Extracted: 08/03/12 15:00
Sample ID    : SL-741-SA5C-SB-0.0-0.5          Date Analyzed: 08/08/12 19:07
Lab Samp ID  : G199-03                         Dilution Factor: 0.976
Lab File ID  : 98H06037                       Matrix          : SOIL
Ext Btch ID  : IMH008S                        % Moisture     : 9.4
Calib. Ref. : 98H06032                       Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13000	108	12.9
Antimony	0.184J	0.539	0.108
Arsenic	4.51	0.539	0.215
Barium	76.5	0.539	0.215
Beryllium	0.495J	0.539	0.0539
Boron	ND	5.39	2.69
Cadmium	0.185J	0.539	0.0539
Calcium	14800	21.5	10.8
Chromium	16.3	0.539	0.215
Cobalt	4.83	0.539	0.0539
Copper	7.05	0.539	0.215
Iron	19200	108	10.8
Lead	4.61	0.539	0.108
Magnesium	4940	10.8	5.39
Manganese	318	0.539	0.269
Molybdenum	0.452J	0.539	0.0539
Nickel	9.25	0.539	0.215
Potassium	2800	108	32.3
Selenium	ND	0.539	0.215
Silver	ND	0.539	0.0539
Sodium	91.7J	108	53.9
Strontium	16.5	0.539	0.269
Thallium	0.231J	0.431	0.0539
Tin	ND	10.8	5.39
Titanium	974	1.08	0.539
Vanadium	32.3	0.539	0.0539
Zinc	49.5	5.39	1.62
Lithium	24.2	2.15	1.08
Phosphorus	309	12.9	6.46
Zirconium	ND	5.39	2.69

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 07/24/12
Project     : SSFL PHASE 3                     Date Received: 07/24/12
SDG NO.    : 12G199                           Date Extracted: 08/03/12 15:00
Sample ID:  SL-741-SA5C-SB-4.0-5.0           Date Analyzed: 08/08/12 19:11
Lab Samp ID: G199-04                         Dilution Factor: 0.990
Lab File ID: 98H06038                       Matrix          : SOIL
Ext Btch ID: IMH008S                        % Moisture     : 11.4
Calib. Ref.: 98H06032                       Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15200	112	13.4
Antimony	0.165J	0.559	0.112
Arsenic	4.04	0.559	0.223
Barium	72.7	0.559	0.223
Beryllium	0.558J	0.559	0.0559
Boron	ND	5.59	2.79
Cadmium	0.131J	0.559	0.0559
Calcium	1930	22.3	11.2
Chromium	14.7	0.559	0.223
Cobalt	3.60	0.559	0.0559
Copper	4.49	0.559	0.223
Iron	16400	112	11.2
Lead	4.76	0.559	0.112
Magnesium	3310	11.2	5.59
Manganese	134	0.559	0.279
Molybdenum	0.750	0.559	0.0559
Nickel	7.61	0.559	0.223
Potassium	1490	112	33.5
Selenium	ND	0.559	0.223
Silver	ND	0.559	0.0559
Sodium	151	112	55.9
Strontium	16.7	0.559	0.279
Thallium	0.213J	0.447	0.0559
Tin	ND	11.2	5.59
Titanium	831	1.12	0.559
Vanadium	30.1	0.559	0.0559
Zinc	31.2	5.59	1.68
Lithium	15.7	2.23	1.12
Phosphorus	124	13.4	6.70
Zirconium	ND	5.59	2.79

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
SDG NO.     : 12G199                            Date Extracted: 08/03/12 15:00
Sample ID   : SL-741-SA5C-SB-9.0-10.0         Date Analyzed: 08/08/12 19:16
Lab Samp ID : G199-05                           Dilution Factor: 0.995
Lab File ID : 98H06039                          Matrix          : SOIL
Ext Btch ID : IMH008S                            % Moisture     : 12.6
Calib. Ref. : 98H06032                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15700	114	13.7
Antimony	0.157J	0.569	0.114
Arsenic	4.59	0.569	0.228
Barium	79.0	0.569	0.228
Beryllium	0.570	0.569	0.0569
Boron	ND	5.69	2.85
Cadmium	0.0864J	0.569	0.0569
Calcium	2090	22.8	11.4
Chromium	17.1	0.569	0.228
Cobalt	3.12	0.569	0.0569
Copper	6.14	0.569	0.228
Iron	21100	114	11.4
Lead	4.54	0.569	0.114
Magnesium	4410	11.4	5.69
Manganese	120	0.569	0.285
Molybdenum	0.516J	0.569	0.0569
Nickel	6.18	0.569	0.228
Potassium	1150	114	34.2
Selenium	ND	0.569	0.228
Silver	ND	0.569	0.0569
Sodium	219	114	56.9
Strontium	20.6	0.569	0.285
Thallium	0.192J	0.455	0.0569
Tin	ND	11.4	5.69
Titanium	772	1.14	0.569
Vanadium	34.3	0.569	0.0569
Zinc	33.5	5.69	1.71
Lithium	16.7	2.28	1.14
Phosphorus	212	13.7	6.83
Zirconium	ND	5.69	2.85

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: 07/24/12
Project      : SSFL PHASE 3                     Date Received: 07/24/12
SDG NO.     : 12G199                           Date Extracted: 08/03/12 15:00
Sample ID   : SL-742-SA5C-SB-0.0-0.5          Date Analyzed: 08/08/12 18:35
Lab Samp ID : G199-08                           Dilution Factor: 0.985
Lab File ID : 98H06030                         Matrix          : SOIL
Ext Btch ID : IMH008S                          % Moisture     : 8.2
Calib. Ref. : 98H06020                         Instrument ID  : T-198
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	13800	107	12.9
Antimony	0.285J	0.536	0.107
Arsenic	14.0	0.536	0.215
Barium	83.3	0.536	0.215
Beryllium	0.514J	0.536	0.0536
Boron	ND	5.36	2.68
Cadmium	0.171J	0.536	0.0536
Calcium	2960	21.5	10.7
Chromium	17.4	0.536	0.215
Cobalt	5.13	0.536	0.0536
Copper	7.42	0.536	0.215
Iron	19100	107	10.7
Lead	4.59	0.536	0.107
Magnesium	4770	10.7	5.36
Manganese	252	0.536	0.268
Molybdenum	0.495J	0.536	0.0536
Nickel	9.77	0.536	0.215
Potassium	2910	107	32.2
Selenium	ND	0.536	0.215
Silver	ND	0.536	0.0536
Sodium	87.6J	107	53.6
Strontium	14.8	0.536	0.268
Thallium	0.236J	0.429	0.0536
Tin	ND	10.7	5.36
Titanium	1010	1.07	0.536
Vanadium	33.5	0.536	0.0536
Zinc	48.3	5.36	1.61
Lithium	22.6	2.15	1.07
Phosphorus	370	12.9	6.44
Zirconium	ND	5.36	2.68

METHOD 6020  
METALS BY ICP-MS

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Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 08/03/12
SDG NO.    : 12G199                           Date Extracted: 08/03/12 15:00
Sample ID: MBLK1S                             Date Analyzed: 08/08/12 17:59
Lab Samp ID: IMH008SB                         Dilution Factor: 1
Lab File ID: 98H06022                        Matrix          : SOIL
Ext Btch ID: IMH008S                          % Moisture     : NA
Calib. Ref.: 98H06020                        Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G199  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMH008SB IMH008SL IMH008SC  
LAB FILE ID: 98H06022 98H06023 98H06024  
DATIME EXTRACTD: 08/03/1215:00 08/03/1215:00 08/03/1215:00 DATE COLLECTED: NA  
DATIME ANALYZD: 08/08/1217:59 08/08/1218:04 08/08/1218:08 DATE RECEIVED: 08/03/12  
PREP. BATCH: IMH008S IMH008S IMH008S  
CALIB. REF: 98H06020 98H06020 98H06020

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2530	101	2500	2310	92	9	80-120	20
Antimony	ND	25.0	24.9	100	25.0	22.8	91	9	80-120	20
Arsenic	ND	25.0	24.0	96	25.0	22.1	88	8	80-120	20
Barium	ND	25.0	25.0	100	25.0	22.5	90	10	80-120	20
Beryllium	ND	25.0	24.6	99	25.0	21.9	88	12	80-120	20
Boron	ND	25.0	25.0	100	25.0	23.6	94	6	80-120	20
Cadmium	ND	25.0	24.8	99	25.0	23.6	94	5	80-120	20
Calcium	ND	2500	2590	104	2500	2360	94	9	80-120	20
Chromium	ND	25.0	24.7	99	25.0	22.3	89	10	80-120	20
Cobalt	ND	25.0	24.6	98	25.0	22.1	88	11	80-120	20
Copper	ND	25.0	24.7	99	25.0	22.6	91	9	80-120	20
Iron	ND	2500	2600	104	2500	2370	95	9	80-120	20
Lead	ND	25.0	24.7	99	25.0	23.4	94	6	80-120	20
Magnesium	ND	2500	2550	102	2500	2340	93	9	80-120	20
Manganese	ND	25.0	24.7	99	25.0	22.6	90	9	80-120	20
Molybdenum	ND	25.0	24.8	99	25.0	22.7	91	9	80-120	20
Nickel	ND	25.0	24.5	98	25.0	22.3	89	9	80-120	20
Potassium	ND	2500	2550	102	2500	2400	96	6	80-120	20
Selenium	ND	25.0	23.4	94	25.0	22.0	88	6	80-120	20
Silver	ND	25.0	25.0	100	25.0	24.7	99	2	80-120	20
Sodium	ND	2500	2510	100	2500	2350	94	7	80-120	20
Strontium	ND	25.0	24.2	97	25.0	22.3	89	8	80-120	20
Thallium	ND	25.0	24.2	97	25.0	23.6	94	3	80-120	20
Tin	ND	25.0	26.8	107	25.0	25.1	100	7	80-120	20
Titanium	ND	25.0	25.0	100	25.0	22.7	91	9	80-120	20
Vanadium	ND	25.0	24.5	98	25.0	22.4	90	9	80-120	20
Zinc	ND	50.0	46.1	92	50.0	44.6	89	3	80-120	20
Lithium	ND	25.0	25.5	102	25.0	23.7	95	7	80-120	20
Phosphorus	ND	250	227	91	250	215	86	6	80-120	20
Zirconium	ND	25.0	24.6	98	25.0	22.5	90	9	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G199  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 8.2  
DILTN FACTR: 0.985 0.980 1.00  
SAMPLE ID: SL-742-SA5C-SB-0.0-0.5  
CONTROL NO.: G199-08 G199-08M G199-08S  
LAB FILE ID: 98H06030 98H06027 98H06028  
DATIME EXTRACTD: 08/03/1215:00 08/03/1215:00 08/03/1215:00 DATE COLLECTED: 07/24/12  
DATIME ANALYZD: 08/08/1218:35 08/08/1218:21 08/08/1218:26 DATE RECEIVED: 07/24/12  
PREP. BATCH: IMH008S IMH008S IMH008S  
CALIB. REF: 98H06020 98H06020 98H06020

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	13800	2670	16500	102	2720	17200	126*	4	75-125	20
Antimony	0.285J	26.7	21.4	79	27.2	22.1	80	3	75-125	20
Arsenic	14.0	26.7	35.8	82	27.2	36.2	81	1	75-125	20
Barium	83.3	26.7	116	124	27.2	116	121	0	75-125	20
Beryllium	0.514J	26.7	26.9	99	27.2	27.2	98	1	75-125	20
Boron	ND	26.7	28.2	106	27.2	28.4	104	1	75-125	20
Cadmium	0.171J	26.7	26.6	99	27.2	27.0	98	2	75-125	20
Calcium	2960	2670	5740	104	2720	5860	106	2	75-125	20
Chromium	17.4	26.7	40.9	88	27.2	42.0	90	2	75-125	20
Cobalt	5.13	26.7	29.3	91	27.2	29.6	90	1	75-125	20
Copper	7.42	26.7	30.8	88	27.2	31.6	89	2	75-125	20
Iron	19100	2670	22200	115	2720	22700	129*	2	75-125	20
Lead	4.59	26.7	30.6	98	27.2	31.3	98	2	75-125	20
Magnesium	4770	2670	7300	95	2720	7430	98	2	75-125	20
Manganese	252	26.7	272	78	27.2	280	105	3	75-125	20
Molybdenum	0.495J	26.7	26.9	99	27.2	27.4	99	2	75-125	20
Nickel	9.77	26.7	33.8	90	27.2	34.3	90	1	75-125	20
Potassium	2910	2670	5550	99	2720	5640	100	2	75-125	20
Selenium	ND	26.7	24.6	92	27.2	25.3	93	3	75-125	20
Silver	ND	26.7	26.6	100	27.2	26.9	99	1	75-125	20
Sodium	87.6J	2670	2560	93	2720	2620	93	2	75-125	20
Strontium	14.8	26.7	41.1	99	27.2	41.9	100	2	75-125	20
Thallium	0.236J	26.7	26.2	97	27.2	26.5	96	1	75-125	20
Tin	ND	26.7	30.4	114	27.2	31.0	114	2	75-125	20
Titanium	1010	26.7	1080	283*	27.2	1120	410*	3	75-125	20
Vanadium	33.5	26.7	58.3	93	27.2	59.9	97	3	75-125	20
Zinc	48.3	53.4	97.6	92	54.5	101	96	3	75-125	20
Lithium	22.6	26.7	52.1	111	27.2	53.1	112	2	75-125	20
Phosphorus	370	267	610	90	272	601	85	1	75-125	20
Zirconium	ND	26.7	23.6	88	27.2	23.4	86	1	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G199  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 8.2  
DILTN FACTR: 0.985 0.985  
SAMPLE ID: SL-742-SA5C-SB-0.0-0.5  
CONTROL NO.: G199-08 G199-08A  
LAB FILE ID: 98H06030 98H06029  
DATIME EXTRACTD: 08/03/1215:00 08/03/1215:00 DATE COLLECTED: 07/24/12  
DATIME ANALYZD: 08/08/1218:35 08/08/1218:30 DATE RECEIVED: 07/24/12  
PREP. BATCH: IMH008S IMH008S  
CALIB. REF: 98H06020 98H06020

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	13800	2680	16200	89	75-125
Antimony	0.285J	26.8	26.4	97	75-125
Arsenic	14.0	26.8	37.7	88	75-125
Barium	83.3	26.8	112	106	75-125
Beryllium	0.514J	26.8	25.9	95	75-125
Boron	ND	26.8	27.9	104	75-125
Cadmium	0.171J	26.8	26.0	96	75-125
Calcium	2960	2680	5620	99	75-125
Chromium	17.4	26.8	41.1	88	75-125
Cobalt	5.13	26.8	28.4	87	75-125
Copper	7.42	26.8	30.5	86	75-125
Iron	19100	2680	21800	100	75-125
Lead	4.59	26.8	29.6	93	75-125
Magnesium	4770	2680	7330	96	75-125
Manganese	252	26.8	271	73*	75-125
Molybdenum	0.495J	26.8	26.8	98	75-125
Nickel	9.77	26.8	33.2	87	75-125
Potassium	2910	2680	5620	101	75-125
Selenium	ND	26.8	24.5	91	75-125
Silver	ND	26.8	25.9	96	75-125
Sodium	87.6J	2680	2640	95	75-125
Strontium	14.8	26.8	39.5	92	75-125
Thallium	0.236J	26.8	25.4	94	75-125
Tin	ND	26.8	29.3	109	75-125
Titanium	1010	26.8	1030	84	75-125
Vanadium	33.5	26.8	57.2	88	75-125
Zinc	48.3	53.6	95.0	87	75-125
Lithium	22.6	26.8	49.7	101	75-125
Phosphorus	370	268	610	90	75-125
Zirconium	ND	26.8	26.2	98	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12G199  
 METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 8.2  
 DILUTION FACTOR: 0.985 4.93  
 SAMPLE ID: SL-742-SA5C-SB SL-742-SA5C-SB  
 EMAX SAMP ID: G199-08 G199-08J  
 LAB FILE ID: 98H06030 98H06034  
 DATE EXTRACTED: 08/03/1215:00 08/03/1215:00 DATE COLLECTED: 07/24/12  
 DATE ANALYZED: 08/08/1218:35 08/08/1218:53 DATE RECEIVED: 07/24/12  
 PREP. BATCH: IMH008S IMH008S  
 CALIB. REF: 98H06020 98H06032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	13800	14400	4	10
Antimony	0.285J	ND	NA	10
Arsenic	14.0	14.7	5	10
Barium	83.3	81.7	2	10
Beryllium	0.514J	0.550J	NA	10
Boron	ND	ND	0	10
Cadmium	0.171J	ND	NA	10
Calcium	2960	3150	6	10
Chromium	17.4	18.2	5	10
Cobalt	5.13	5.49	7	10
Copper	7.42	7.89	6	10
Iron	19100	20600	8	10
Lead	4.59	4.72	3	10
Magnesium	4770	4970	4	10
Manganese	252	272	8	10
Molybdenum	0.495J	0.485J	NA	10
Nickel	9.77	10.6	8	10
Potassium	2910	2970	2	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	87.6J	ND	NA	10
Strontium	14.8	14.7	0	10
Thallium	0.236J	ND	NA	10
Tin	ND	ND	0	10
Titanium	1010	1060	6	10
Vanadium	33.5	35.0	5	10
Zinc	48.3	49.9	3	10
Lithium	22.6	21.6	4	10
Phosphorus	370	370	0	10
Zirconium	ND	ND	0	10

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G199

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HGH005SB	ND	1	NA	0.100	0.0500	08/03/1210:13	08/02/1217:15	M47H004010	M47H004008	HGH005S	NA	08/02/12
LCS1S	HGH005SL	0.875	1	NA	0.100	0.0500	08/03/1210:15	08/02/1217:15	M47H004011	M47H004008	HGH005S	NA	08/02/12
LCD1S	HGH005SC	0.878	1	NA	0.100	0.0500	08/03/1210:17	08/02/1217:15	M47H004012	M47H004008	HGH005S	NA	08/02/12
SL-741-SA5C-SB-0.0-0.5AS	G199-03A	0.975	0.993	9.4	0.110	0.0548	08/03/1210:19	08/02/1217:15	M47H004013	M47H004008	HGH005S	07/24/1209:20	07/24/12
SL-741-SA5C-SB-0.0-0.5	G199-03	ND	0.993	9.4	0.110	0.0548	08/03/1210:21	08/02/1217:15	M47H004014	M47H004008	HGH005S	07/24/1209:20	07/24/12
SL-741-SA5C-SB-0.0-0.5DL	G199-03J	ND	4.97	9.4	0.549	0.274	08/03/1210:23	08/02/1217:15	M47H004015	M47H004008	HGH005S	07/24/1209:20	07/24/12
SL-741-SA5C-SB-0.0-0.5MS	G199-03M	1.02	1	9.4	0.110	0.0552	08/03/1210:25	08/02/1217:15	M47H004016	M47H004008	HGH005S	07/24/1209:20	07/24/12
SL-741-SA5C-SB-0.0-0.5MSDG	G199-03S	1.01	0.998	9.4	0.110	0.0551	08/03/1210:28	08/02/1217:15	M47H004017	M47H004008	HGH005S	07/24/1209:20	07/24/12
SL-583-SA5C-SB-0.0-0.5	G199-01	ND	0.995	9.4	0.110	0.0549	08/03/1210:30	08/02/1217:15	M47H004018	M47H004008	HGH005S	07/24/1207:30	07/24/12
SL-583-SA5C-SB-4.0-5.0	G199-02	ND	1.02	17.0	0.123	0.0614	08/03/1210:33	08/02/1217:15	M47H004019	M47H004008	HGH005S	07/24/1207:35	07/24/12
SL-741-SA5C-SB-4.0-5.0	G199-04	ND	0.992	11.4	0.112	0.0560	08/03/1210:39	08/02/1217:15	M47H004022	M47H004020	HGH005S	07/24/1209:25	07/24/12
SL-741-SA5C-SB-9.0-10.0	G199-05	ND	0.98	12.6	0.112	0.0561	08/03/1210:42	08/02/1217:15	M47H004023	M47H004020	HGH005S	07/24/1209:30	07/24/12
SL-742-SA5C-SB-0.0-0.5	G199-08	ND	0.995	8.2	0.108	0.0542	08/03/1210:44	08/02/1217:15	M47H004024	M47H004020	HGH005S	07/24/1208:45	07/24/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G199  
METHOD: 7471A

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGH005SB HGH005SL HGH005SC  
LAB FILE ID: M47H004010 M47H004011 M47H004012  
DATIME EXTRCTD: 08/02/1217:15 08/02/1217:15 08/02/1217:15 DATE COLLECTED: NA  
DATIME ANALYZD: 08/03/1210:13 08/03/1210:15 08/03/1210:17 DATE RECEIVED: 08/02/12  
PREP. BATCH: HGH005S HGH005S HGH005S  
CALIB. REF: M47H004008 M47H004008 M47H004008

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.875	105	.833	.878	105	0	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G199  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 9.4  
DILTN FACTR: 0.993 1 0.998  
SAMPLE ID: SL-741-SA5C-SB-0.0-0.5  
CONTROL NO.: G199-03 G199-03M G199-03S  
LAB FILE ID: M47H004014 M47H004016 M47H004017  
DATIME EXTRCTD: 08/02/1217:15 08/02/1217:15 08/02/1217:15 DATE COLLECTED: 07/24/12 09:20  
DATIME ANALYZD: 08/03/1210:21 08/03/1210:25 08/03/1210:28 DATE RECEIVED: 07/24/12  
PREP. BATCH: HGH005S HGH005S HGH005S  
CALIB. REF: M47H004008 M47H004008 M47H004008

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.919	1.02	110	.918	1.01	110	1	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12G199  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 9.4  
DILTN FACTR: 0.993 0.993  
SAMPLE ID: SL-741-SA5C-SB-0.0-0.5  
CONTROL NO.: G199-03 G199-03A  
LAB FILE ID: M47H004014 M47H004013  
DATIME EXTRCTD: 08/02/1217:15 08/02/1217:15 DATE COLLECTED: 07/24/12 09:20  
DATIME ANALYZD: 08/03/1210:21 08/03/1210:19 DATE RECEIVED: 07/24/12  
PREP. BATCH: HGH005S HGH005S  
CALIB. REF: M47H004008 M47H004008

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.913	.975	107	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12G199  
 METHOD: 7471A

=====

MATRIX:	SOIL		% MOISTURE:	9.4
DILUTION FACTOR:	0.993	4.97		
SAMPLE ID:	SL-741-SA5C-SB-0.0-0.5	SL-741-SA5C-SB-0.0-0.5DL		
EMAX SAMP ID:	G199-03	G199-03J		
LAB FILE ID:	M47H004014	M47H004015		
DATE EXTRACTED:	08/02/1217:15	08/02/1217:15	DATE COLLECTED:	07/24/12 09:20
DATE ANALYZED:	08/03/1210:21	08/03/1210:23	DATE RECEIVED:	07/24/12
PREP. BATCH:	HGH005S	HGH005S		
CALIB. REF:	M47H004008	M47H004008		

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
-----	-----	-----	-----	-----
Mercury	ND	ND	0	10

METHOD 9045D  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12G199  
=====

Matrix : SOIL  
InstrumentID : 53  
=====

CLIENT SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	PREP. FACTOR	MOIST (%)	LOQ (pH Unit)	LOD (pH Unit)	ANALYSIS DATETIME	PREPARATION DATETIME	DATA FILE ID	CAL REF	PREP BATCH	COLLECTION DATETIME	RECEIVED DATETIME
SL-583-SA5C-SB-0.0-0.5	G199-01	7.63	1	NA	0.1	0.1	07/25/1218:51	07/25/1217:09	12PHG027S13	12PHG027	PHG027S	07/24/1207:30	07/24/12
SL-583-SA5C-SB-4.0-5.0	G199-02	7.36	1	NA	0.1	0.1	07/25/1218:52	07/25/1217:09	12PHG027S14	12PHG027	PHG027S	07/24/1207:35	07/24/12
SL-741-SA5C-SB-0.0-0.5	G199-03	7.78	1	NA	0.1	0.1	07/25/1218:54	07/25/1217:09	12PHG027S15	12PHG027	PHG027S	07/24/1209:20	07/24/12
SL-741-SA5C-SB-4.0-5.0	G199-04	7.53	1	NA	0.1	0.1	07/25/1218:56	07/25/1217:09	12PHG027S16	12PHG027	PHG027S	07/24/1209:25	07/24/12
SL-741-SA5C-SB-9.0-10.0	G199-05	7.67	1	NA	0.1	0.1	07/25/1218:57	07/25/1217:09	12PHG027S17	12PHG027	PHG027S	07/24/1209:30	07/24/12
SL-742-SA5C-SB-0.0-0.5	G199-08	7.8	1	NA	0.1	0.1	07/25/1218:58	07/25/1217:09	12PHG027S18	12PHG027	PHG027S	07/24/1208:45	07/24/12

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12G199  
 =====

Matrix : SOIL  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DLF	MOIST	RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1S	HCG011SB	ND	1	NA	1.00	0.500	07/30/1216:52	07/27/1214:28	IG30003	IG30001	HCG011S	NA	07/27/12
LCS1S	CSG011SL	9.26	1	NA	1.00	0.500	07/30/1217:13	07/27/1214:28	IG30005	IG30001	HCG011S	NA	07/27/12
LCS2S	CIG011SL	221	20	NA	20.0	10.0	07/30/1217:33	07/27/1214:28	IG30007	IG30001	HCG011S	NA	07/27/12
SL-741-SA5C-SB-0.0-0.5	G199-03	ND	1	9.4	1.10	0.552	07/30/1222:48	07/27/1214:28	IG30035	IG30025	HCG011S	07/24/1209:20	07/24/12
SL-741-SA5C-SB-4.0-5.0	G199-04	ND	1	11.4	1.13	0.564	07/30/1223:30	07/27/1214:28	IG30039	IG30037	HCG011S	07/24/1209:25	07/24/12
SL-741-SA5C-SB-9.0-10.0	G199-05	ND	1	12.6	1.14	0.572	07/30/1223:50	07/27/1214:28	IG30041	IG30037	HCG011S	07/24/1209:30	07/24/12
SL-742-SA5C-SB-0.0-0.5	G199-08	ND	1	8.2	1.09	0.545	07/31/1200:11	07/27/1214:28	IG30043	IG30037	HCG011S	07/24/1208:45	07/24/12

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G199  
METHOD: 7199

=====

MATRIX:	SOIL		% MOISTURE:	NA
DILUTION FACTOR:	1	20		
SAMPLE ID:	MBLK1S			
LAB SAMP ID:	HCG011SB	CIG011SL		
LAB FILE ID:	IG30003	IG30007		
DATE EXTRACTED:	07/27/1214:28	07/27/1214:28	DATE COLLECTED:	NA
DATE ANALYZED:	07/30/1216:52	07/30/1217:33	DATE RECEIVED:	07/27/12
PREP. BATCH:	HCG011S	HCG011S		
CALIB. REF:	IG30001	IG30001		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	251	221	88	80-120

INSOLUBLE HEXAVALENT CHROMIUM

EMAX QUALITY CONTROL DATA  
LCS ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12G199  
METHOD: 7199

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: HCG011SB CSG011SL  
LAB FILE ID: IG30003 IG30005  
DATE EXTRACTED: 07/27/1214:28 07/27/1214:28 DATE COLLECTED: NA  
DATE ANALYZED: 07/30/1216:52 07/30/1217:13 DATE RECEIVED: 07/27/12  
PREP. BATCH: HCG011S HCG011S  
CALIB. REF: IG30001 IG30001

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	QC LIMIT ( % )
Hexavalent Chromium	ND	10.0	9.26	93	80-120

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/29/12 14:15
Sample ID    : EB-052412                        Date Analyzed: 05/31/12 22:23
Lab Samp ID  : E204-01                          Dilution Factor: 1.02
Lab File ID  : REL280                           Matrix          : WATER
Ext Btch ID  : SVE054W                          % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	0.23	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.51

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	17.2	20.40	84.1	40-130
2-FLUOROBIPHENYL	16.0	20.40	78.4	45-130
TERPHENYL-D14	20.4	20.40	100	45-135

METHOD 3520C/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.    : 12E204                           Date Extracted: 05/29/12 14:15
Sample ID    : MBLK1W                           Date Analyzed: 05/31/12 13:46
Lab Samp ID  : SVE054WB                         Dilution Factor: 1
Lab File ID  : REL260                           Matrix          : WATER
Ext Btch ID  : SVE054W                         % Moisture     : NA
Calib. Ref.  : REL181                           Instrument ID   : T-OE9
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACENAPHTHENE	ND	0.20	0.10
ACENAPHTHYLENE	ND	0.20	0.10
ANTHRACENE	ND	0.20	0.10
BENZO (A) ANTHRACENE	ND	0.20	0.10
BENZO (A) PYRENE	ND	0.20	0.10
BENZO (B) FLUORANTHENE	ND	0.20	0.10
BENZO (K) FLUORANTHENE	ND	0.20	0.10
BENZO (G, H, I) PERYLENE	ND	0.20	0.10
CHRYSENE	ND	0.20	0.10
DIBENZO (A, H) ANTHRACENE	ND	0.20	0.10
FLUORANTHENE	ND	0.20	0.10
FLUORENE	ND	0.20	0.10
INDENO (1, 2, 3-CD) PYRENE	ND	0.20	0.10
NAPHTHALENE	ND	0.20	0.10
PHENANTHRENE	ND	0.20	0.10
2-METHYLNAPHTHALENE	ND	0.20	0.10
1-METHYLNAPHTHALENE	ND	0.20	0.10
N-NITROSODIMETHYLAMINE	ND	1.0	0.10
PYRENE	ND	0.20	0.10
AZOBENZENE	ND	1.0	0.10
BENZO (E) PYRENE	ND	0.20	0.10
BIPHENYL	ND	2.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	16.3	20.00	81.6	40-130
2-FLUOROBIPHENYL	16.0	20.00	79.8	45-130
TERPHENYL-D14	19.0	20.00	95.2	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 3520C/8270C SIM

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: SVE054WB SVE054WX SVE054WC  
LAB FILE ID: REL260 REL281 REL262  
DATE EXTRACTED: 05/29/1214:15 05/29/1214:15 05/29/1214:15 DATE COLLECTED: NA  
DATE ANALYZED: 05/31/1213:46 05/31/1222:49 05/31/1214:31 DATE RECEIVED: 05/29/12  
PREP. BATCH: SVE054W SVE054W SVE054W  
CALIB. REF: REL181 REL181 REL181

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	40.0	33.6	84	40.0	43.1	108	25	20-130	30
Acenaphthylene	ND	40.0	33.9	85	40.0	45.3	113	29	30-140	30
Anthracene	ND	40.0	35.6	89	40.0	40.2	101	12	40-130	30
Benzo(a)anthracene	ND	40.0	38.5	96	40.0	45.6	114	17	50-130	30
Benzo(a)pyrene	ND	40.0	38.6	97	40.0	45.1	113	15	50-130	30
Benzo(b)fluoranthene	ND	40.0	40.1	100	40.0	48.8	122	20	50-130	30
Benzo(k)fluoranthene	ND	40.0	39.7	99	40.0	43.0	108	8	50-130	30
Benzo(g,h,i)perylene	ND	40.0	37.6	94	40.0	40.4	101	7	30-150	30
Chrysene	ND	40.0	39.4	98	40.0	46.8	117	17	50-130	30
Dibenzo(a,h)anthracene	ND	40.0	39.4	99	40.0	41.6	104	6	40-140	30
Fluoranthene	ND	40.0	40.1	100	40.0	46.0	115	14	40-130	30
Fluorene	ND	40.0	34.8	87	40.0	44.5	111	24	10-150	30
Indeno(1,2,3-cd)pyrene	ND	40.0	38.8	97	40.0	42.2	106	8	40-130	30
Naphthalene	ND	40.0	30.3	76	40.0	37.0	92	20	20-130	30
Phenanthrene	ND	40.0	36.9	92	40.0	42.2	105	13	40-130	30
2-Methylnaphthalene	ND	40.0	31.9	80	40.0	37.5	94	16	30-150	30
1-Methylnaphthalene	ND	40.0	32.2	81	40.0	40.0	100	21	40-150	30
N-Nitrosodimethylamine	ND	40.0	31.1	78	40.0	37.2	93	18	20-150	30
Pyrene	ND	40.0	39.8	100	40.0	46.4	116	15	40-130	30
Azobenzene	ND	40.0	33.0	82	40.0	36.6	92	10	30-150	30
Benzo(e)pyrene	ND	40.0	33.0	82	40.0	38.1	95	14	30-150	30
Biphenyl	ND	40.0	27.3	68	40.0	33.6	84	21	30-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	20.0	11.3	57	20.0	13.6	68	40-130
2-Fluorobiphenyl	20.0	11.7	59	20.0	14.1	70	45-130
Terphenyl-d14	20.0	16.5	82	20.0	18.3	92	45-130

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-704-SA5C-SB-0.0-0.5          Date Analyzed: 06/01/12 19:51
Lab Samp ID  : E204-02                           Dilution Factor: 2
Lab File ID  : RFJ028                             Matrix          : SOIL
Ext Btch ID  : SVF002S                            % Moisture     : 10.6
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	22	5.6
ACENAPHTHYLENE	ND	22	5.6
ANTHRACENE	ND	22	5.6
BENZO (A) ANTHRACENE	ND	22	5.6
BENZO (A) PYRENE	ND	22	5.6
BENZO (B) FLUORANTHENE	ND	22	5.6
BENZO (K) FLUORANTHENE	ND	22	5.6
BENZO (G, H, I) PERYLENE	ND	22	5.6
CHRYSENE	ND	22	5.6
DIBENZO (A, H) ANTHRACENE	ND	22	5.6
FLUORANTHENE	ND	22	5.6
FLUORENE	ND	22	5.6
INDENO (1, 2, 3-CD) PYRENE	ND	22	5.6
NAPHTHALENE	ND	22	5.6
PHENANTHRENE	ND	22	5.6
2-METHYLNAPHTHALENE	ND	22	5.6
1-METHYLNAPHTHALENE	ND	22	5.6
N-NITROSODIMETHYLAMINE	ND	22	5.6
PYRENE	ND	22	5.6
AZOBENZENE	ND	11	5.6
BENZO (E) PYRENE	9.0J	11	5.6
BIPHENYL	ND	11	5.6

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	246	372.8	66.0	40-130
2-FLUOROBIPHENYL	197	372.8	52.8	45-130
TERPHENYL-D14	242	372.8	65.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-704-SA5C-SB-4.0-5.0          Date Analyzed: 06/01/12 20:10
Lab Samp ID  : E204-03                           Dilution Factor: 2
Lab File ID  : RFJ029                             Matrix          : SOIL
Ext Btch ID  : SVF002S                           % Moisture     : 14.0
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	23	5.8
ACENAPHTHYLENE	ND	23	5.8
ANTHRACENE	ND	23	5.8
BENZO (A) ANTHRACENE	9.1J	23	5.8
BENZO (A) PYRENE	ND	23	5.8
BENZO (B) FLUORANTHENE	10J	23	5.8
BENZO (K) FLUORANTHENE	ND	23	5.8
BENZO (G, H, I) PERYLENE	8.7J	23	5.8
CHRYSENE	6.4J	23	5.8
DIBENZO (A, H) ANTHRACENE	ND	23	5.8
FLUORANTHENE	ND	23	5.8
FLUORENE	ND	23	5.8
INDENO (1, 2, 3-CD) PYRENE	ND	23	5.8
NAPHTHALENE	ND	23	5.8
PHENANTHRENE	ND	23	5.8
2-METHYLNAPHTHALENE	ND	23	5.8
1-METHYLNAPHTHALENE	ND	23	5.8
N-NITROSODIMETHYLAMINE	ND	23	5.8
PYRENE	ND	23	5.8
AZOBENZENE	ND	12	5.8
BENZO (E) PYRENE	16	12	5.8
BIPHENYL	ND	12	5.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	233	387.6	60.1	40-130
2-FLUOROBIPHENYL	207	387.6	53.4	45-130
TERPHENYL-D14	251	387.6	64.9	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-704-SA5C-SB-9.0-10.0         Date Analyzed: 06/01/12 20:29
Lab Samp ID  : E204-05                           Dilution Factor: 1
Lab File ID  : RFJ030                             Matrix          : SOIL
Ext Btch ID  : SVF002S                            % Moisture     : 10.7
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	222	373.2	59.4	40-130
2-FLUOROBIPHENYL	200	373.2	53.7	45-130
TERPHENYL-D14	251	373.2	67.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-694-SA5C-SB-0.0-0.5          Date Analyzed: 06/01/12 20:48
Lab Samp ID  : E204-07                           Dilution Factor: 1
Lab File ID  : RFJ031                            Matrix          : SOIL
Ext Btch ID  : SVF002S                           % Moisture     : 14.4
Calib. Ref.  : RAJ290                            Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	260	389.4	66.7	40-130
2-FLUOROBIPHENYL	192	389.4	49.4	45-130
TERPHENYL-D14	278	389.4	71.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-694-SA5C-SB-4.0-5.0          Date Analyzed: 06/01/12 21:07
Lab Samp ID  : E204-09                           Dilution Factor: 1
Lab File ID  : RFJ032                            Matrix          : SOIL
Ext Btch ID  : SVF002S                          % Moisture     : 9.9
Calib. Ref.  : RAJ290                            Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.5	2.8
BENZO (E) PYRENE	ND	5.5	2.8
BIPHENYL	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	191	369.9	51.7	40-130
2-FLUOROBIPHENYL	167	369.9	45.0	45-130
TERPHENYL-D14	193	369.9	52.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-694-SA5C-SB-9.0-10.0         Date Analyzed: 06/01/12 21:26
Lab Samp ID  : E204-11                           Dilution Factor: 1
Lab File ID  : RFJ033                             Matrix          : SOIL
Ext Btch ID  : SVF002S                            % Moisture      : 12.8
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	280	382.2	73.4	40-130
2-FLUOROBIPHENYL	239	382.2	62.6	45-130
TERPHENYL-D14	303	382.2	79.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-672-SA5C-SB-0.0-0.5          Date Analyzed: 06/01/12 21:44
Lab Samp ID  : E204-12                          Dilution Factor: 1
Lab File ID  : RFJ034                           Matrix          : SOIL
Ext Btch ID  : SVF002S                          % Moisture     : 10.7
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	ND	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	266	373.2	71.3	40-130
2-FLUOROBIPHENYL	237	373.2	63.5	45-130
TERPHENYL-D14	285	373.2	76.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-672-SA5C-SB-4.0-5.0          Date Analyzed: 06/01/12 22:03
Lab Samp ID  : E204-14                           Dilution Factor: 1
Lab File ID  : RFJ035                             Matrix          : SOIL
Ext Btch ID  : SVF002S                            % Moisture     : 15.9
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	3.0
ACENAPHTHYLENE	ND	12	3.0
ANTHRACENE	ND	12	3.0
BENZO (A) ANTHRACENE	8.1J	12	3.0
BENZO (A) PYRENE	ND	12	3.0
BENZO (B) FLUORANTHENE	7.6J	12	3.0
BENZO (K) FLUORANTHENE	ND	12	3.0
BENZO (G, H, I) PERYLENE	4.7J	12	3.0
CHRYSENE	4.1J	12	3.0
DIBENZO (A, H) ANTHRACENE	ND	12	3.0
FLUORANTHENE	ND	12	3.0
FLUORENE	ND	12	3.0
INDENO (1, 2, 3-CD) PYRENE	ND	12	3.0
NAPHTHALENE	ND	12	3.0
PHENANTHRENE	5.0J	12	3.0
2-METHYLNAPHTHALENE	ND	12	3.0
1-METHYLNAPHTHALENE	ND	12	3.0
N-NITROSODIMETHYLAMINE	ND	12	3.0
PYRENE	3.5J	12	3.0
AZOBENZENE	ND	5.9	3.0
BENZO (E) PYRENE	11	5.9	3.0
BIPHENYL	ND	5.9	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	252	396.3	63.7	40-130
2-FLUOROBIPHENYL	232	396.3	58.6	45-130
TERPHENYL-D14	298	396.3	75.1	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-677-SA5C-SB-0.0-0.5          Date Analyzed: 06/01/12 22:22
Lab Samp ID  : E204-16                           Dilution Factor: 1
Lab File ID  : RFJ036                             Matrix          : SOIL
Ext Btch ID  : SVF002S                            % Moisture     : 14.4
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	12	2.9
ACENAPHTHYLENE	ND	12	2.9
ANTHRACENE	ND	12	2.9
BENZO (A) ANTHRACENE	ND	12	2.9
BENZO (A) PYRENE	ND	12	2.9
BENZO (B) FLUORANTHENE	ND	12	2.9
BENZO (K) FLUORANTHENE	ND	12	2.9
BENZO (G, H, I) PERYLENE	ND	12	2.9
CHRYSENE	ND	12	2.9
DIBENZO (A, H) ANTHRACENE	ND	12	2.9
FLUORANTHENE	ND	12	2.9
FLUORENE	ND	12	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	12	2.9
NAPHTHALENE	ND	12	2.9
PHENANTHRENE	ND	12	2.9
2-METHYLNAPHTHALENE	ND	12	2.9
1-METHYLNAPHTHALENE	ND	12	2.9
N-NITROSODIMETHYLAMINE	ND	12	2.9
PYRENE	ND	12	2.9
AZOBENZENE	ND	5.8	2.9
BENZO (E) PYRENE	ND	5.8	2.9
BIPHENYL	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	252	389.4	64.7	40-130
2-FLUOROBIPHENYL	206	389.4	53.0	45-130
TERPHENYL-D14	266	389.4	68.4	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-677-SA5C-SB-4.0-5.0          Date Analyzed: 06/04/12 14:43
Lab Samp ID  : E204-17W                         Dilution Factor: 1
Lab File ID  : RFJ053                           Matrix          : SOIL
Ext Btch ID  : SVF002S                          % Moisture     : 12.4
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	4.0J	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	251	380.5	65.9	40-130
2-FLUOROBIPHENYL	214	380.5	56.2	45-130
TERPHENYL-D14	275	380.5	72.2	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-705-SA5C-SB-0.0-0.5          Date Analyzed: 06/05/12 12:56
Lab Samp ID  : E204-19                           Dilution Factor: 1
Lab File ID  : RFJ084                            Matrix          : SOIL
Ext Btch ID  : SVF002S                          % Moisture     : 11.7
Calib. Ref.  : RAJ290                            Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.7	2.8
BENZO (E) PYRENE	ND	5.7	2.8
BIPHENYL	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	229	377.5	60.7	40-130
2-FLUOROBIPHENYL	202	377.5	53.4	45-130
TERPHENYL-D14	273	377.5	72.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-705-SA5C-SB-4.0-5.0          Date Analyzed: 06/05/12 13:15
Lab Samp ID  : E204-20                           Dilution Factor: 1
Lab File ID  : RFJ085                             Matrix          : SOIL
Ext Btch ID  : SVF002S                           % Moisture     : 11.4
Calib. Ref.  : RAJ290                             Instrument ID   : T-OE4
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.8
ACENAPHTHYLENE	ND	11	2.8
ANTHRACENE	ND	11	2.8
BENZO (A) ANTHRACENE	ND	11	2.8
BENZO (A) PYRENE	ND	11	2.8
BENZO (B) FLUORANTHENE	ND	11	2.8
BENZO (K) FLUORANTHENE	ND	11	2.8
BENZO (G, H, I) PERYLENE	ND	11	2.8
CHRYSENE	ND	11	2.8
DIBENZO (A, H) ANTHRACENE	ND	11	2.8
FLUORANTHENE	ND	11	2.8
FLUORENE	ND	11	2.8
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.8
NAPHTHALENE	ND	11	2.8
PHENANTHRENE	ND	11	2.8
2-METHYLNAPHTHALENE	ND	11	2.8
1-METHYLNAPHTHALENE	ND	11	2.8
N-NITROSODIMETHYLAMINE	ND	11	2.8
PYRENE	ND	11	2.8
AZOBENZENE	ND	5.6	2.8
BENZO (E) PYRENE	4.2J	5.6	2.8
BIPHENYL	ND	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	185	376.2	49.1	40-130
2-FLUOROBIPHENYL	171	376.2	45.4	45-130
TERPHENYL-D14	264	376.2	70.3	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : SL-705-SA5C-SB-9.0-10.0         Date Analyzed: 06/05/12 13:34
Lab Samp ID  : E204-22                          Dilution Factor: 1
Lab File ID  : RFJ086                            Matrix          : SOIL
Ext Btch ID  : SVF002S                           % Moisture     : 12.4
Calib. Ref.  : RAJ290                            Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	11	2.9
ACENAPHTHYLENE	ND	11	2.9
ANTHRACENE	ND	11	2.9
BENZO (A) ANTHRACENE	ND	11	2.9
BENZO (A) PYRENE	ND	11	2.9
BENZO (B) FLUORANTHENE	ND	11	2.9
BENZO (K) FLUORANTHENE	ND	11	2.9
BENZO (G, H, I) PERYLENE	ND	11	2.9
CHRYSENE	ND	11	2.9
DIBENZO (A, H) ANTHRACENE	ND	11	2.9
FLUORANTHENE	ND	11	2.9
FLUORENE	ND	11	2.9
INDENO (1, 2, 3-CD) PYRENE	ND	11	2.9
NAPHTHALENE	ND	11	2.9
PHENANTHRENE	ND	11	2.9
2-METHYLNAPHTHALENE	ND	11	2.9
1-METHYLNAPHTHALENE	ND	11	2.9
N-NITROSODIMETHYLAMINE	ND	11	2.9
PYRENE	ND	11	2.9
AZOBENZENE	ND	5.7	2.9
BENZO (E) PYRENE	ND	5.7	2.9
BIPHENYL	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	198	380.5	52.0	40-130
2-FLUOROBIPHENYL	177	380.5	46.5	45-130
TERPHENYL-D14	270	380.5	71.0	45-135

METHOD 3550B/8270C SIM  
SEMI VOLATILE ORGANICS BY GC/MS SIM

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=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 11:17
Sample ID    : MBLK1S                            Date Analyzed: 06/01/12 17:39
Lab Samp ID  : SVF002SB                         Dilution Factor: 1
Lab File ID  : RFJ021                           Matrix          : SOIL
Ext Btch ID  : SVF002S                          % Moisture     : NA
Calib. Ref.  : RAJ290                           Instrument ID   : T-OE4
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
ACENAPHTHENE	ND	10	2.5
ACENAPHTHYLENE	ND	10	2.5
ANTHRACENE	ND	10	2.5
BENZO (A) ANTHRACENE	ND	10	2.5
BENZO (A) PYRENE	ND	10	2.5
BENZO (B) FLUORANTHENE	ND	10	2.5
BENZO (K) FLUORANTHENE	ND	10	2.5
BENZO (G, H, I) PERYLENE	ND	10	2.5
CHRYSENE	ND	10	2.5
DIBENZO (A, H) ANTHRACENE	ND	10	2.5
FLUORANTHENE	ND	10	2.5
FLUORENE	ND	10	2.5
INDENO (1, 2, 3-CD) PYRENE	ND	10	2.5
NAPHTHALENE	ND	10	2.5
PHENANTHRENE	ND	10	2.5
2-METHYLNAPHTHALENE	ND	10	2.5
1-METHYLNAPHTHALENE	ND	10	2.5
N-NITROSODIMETHYLAMINE	ND	10	2.5
PYRENE	ND	10	2.5
AZOBENZENE	ND	5.0	2.5
BENZO (E) PYRENE	ND	5.0	2.5
BIPHENYL	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
NITROBENZENE-D5	277	333.3	83.1	40-130
2-FLUOROBIPHENYL	242	333.3	72.6	45-130
TERPHENYL-D14	236	333.3	70.8	45-130

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 3550B/8270C SIM

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: SVF002SB SVF002SL SVF002SC  
LAB FILE ID: RFJ021 RFJ022 RFJ023  
DATE EXTRACTED: 06/01/1211:17 06/01/1211:17 06/01/1211:17 DATE COLLECTED: NA  
DATE ANALYZED: 06/01/1217:39 06/01/1217:58 06/01/1218:17 DATE RECEIVED: 06/01/12  
PREP. BATCH: SVF002S SVF002S SVF002S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	333	296	89	333	294	88	1	10-130	50
Acenaphthylene	ND	333	331	99	333	327	98	1	20-130	50
Anthracene	ND	333	278	83	333	263	79	5	20-130	50
Benzo (a) anthracene	ND	333	298	89	333	241	72	21	30-130	50
Benzo (a) pyrene	ND	333	343	103	333	316	95	8	30-130	50
Benzo (b) fluoranthene	ND	333	357	107	333	325	97	9	40-130	50
Benzo (k) fluoranthene	ND	333	362	109	333	331	99	9	30-140	50
Benzo (g, h, i) perylene	ND	333	348	104	333	319	96	9	30-140	50
Chrysene	ND	333	295	88	333	240	72	20	30-140	50
Dibenzo (a, h) anthracene	ND	333	351	105	333	320	96	9	40-140	50
Fluoranthene	ND	333	319	96	333	278	83	14	30-130	50
Fluorene	ND	333	305	92	333	304	91	0	20-130	50
Indeno (1, 2, 3-cd) pyrene	ND	333	348	104	333	317	95	9	20-160	50
Naphthalene	ND	333	275	83	333	273	82	1	10-130	50
Phenanthrene	ND	333	282	85	333	269	81	5	20-130	50
2-Methylnaphthalene	ND	333	293	88	333	290	87	1	30-150	50
1-Methylnaphthalene	ND	333	301	90	333	299	90	1	30-150	50
N-Nitrosodimethylamine	ND	333	242	73	333	246	74	2	30-150	50
Pyrene	ND	333	307	92	333	264	79	15	20-150	50
Azobenzene	ND	333	269	81	333	273	82	1	30-150	50
Benzo (e) pyrene	ND	333	293	88	333	294	88	0	30-150	50
Biphenyl	ND	333	231	69	333	255	76	10	30-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	333	236	71	333	267	80	40-130
2-Fluorobiphenyl	333	211	63	333	238	71	45-130
Terphenyl-d14	333	268	80	333	245	74	45-130

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 3550B/8270C SIM

MATRIX: SOIL % MOISTURE: 10.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-704-SA5C-SB-9.0-10.0  
LAB SAMP ID: E204-05 E204-05M E204-05S  
LAB FILE ID: RFJ030 RFJ024 RFJ025  
DATE EXTRACTED: 06/01/1211:17 06/01/1211:17 06/01/1211:17 DATE COLLECTED: 05/24/12  
DATE ANALYZED: 06/01/1220:29 06/01/1218:35 06/01/1218:54 DATE RECEIVED: 05/24/12  
PREP. BATCH: SVF002S SVF002S SVF002S  
CALIB. REF: RAJ290 RAJ290 RAJ290

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Acenaphthene	ND	373	312	83	373	331	89	6	10-130	50
Acenaphthylene	ND	373	349	94	373	371	99	6	20-130	50
Anthracene	ND	373	288	77	373	326	87	13	20-130	50
Benzo(a)anthracene	ND	373	286	77	373	302	81	5	30-130	50
Benzo(a)pyrene	ND	373	336	90	373	376	101	11	30-130	50
Benzo(b)fluoranthene	ND	373	353	95	373	387	104	9	30-130	50
Benzo(k)fluoranthene	ND	373	346	93	373	393	105	13	30-130	50
Benzo(g,h,i)perylene	ND	373	355	95	373	391	105	10	30-140	50
Chrysene	ND	373	283	76	373	297	80	5	20-130	50
Dibenzo(a,h)anthracene	ND	373	358	96	373	394	106	10	30-130	50
Fluoranthene	ND	373	319	85	373	347	93	8	30-150	50
Fluorene	ND	373	329	88	373	349	94	6	20-130	50
Indeno(1,2,3-cd)pyrene	ND	373	359	96	373	393	105	9	20-160	50
Naphthalene	ND	373	222	60	373	223	60	0	10-130	50
Phenanthrene	ND	373	293	78	373	332	89	12	20-130	50
2-Methylnaphthalene	ND	373	287	77	373	293	79	2	30-150	50
1-Methylnaphthalene	ND	373	297	80	373	308	82	3	30-150	50
N-Nitrosodimethylamine	ND	373	240	64	373	280	75	15	20-150	50
Pyrene	ND	373	303	81	373	326	87	7	10-160	50
Azobenzene	ND	373	257	69	373	333	89	26	30-150	50
Benzo(e)pyrene	ND	373	269	72	373	281	75	4	30-150	50
Biphenyl	ND	373	225	60	373	223	60	1	30-150	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Nitrobenzene-d5	373	232	62	373	261	70	40-130
2-Fluorobiphenyl	373	229	61	373	229	61	45-130
Terphenyl-d14	373	263	70	373	256	69	45-135

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project    : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.  : 12E204                           Date Extracted: 05/29/12 15:39
Sample ID  : EB-052412                        Date Analyzed: 05/29/12 15:39
Lab Samp ID: E204-01                          Dilution Factor: 1
Lab File ID: EE29009A                        Matrix          : WATER
Ext Btch ID: VG39E17                          % Moisture     : NA
Calib. Ref.: EE29002A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)**	13J	50	10
SURROGATE PARAMETERS			
-----	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	33.9	40.00	84.8 60-140

RL : Reporting Limit  
 \*\*: Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project    : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.  : 12E204                           Date Extracted: 05/29/12 16:22
Sample ID  : TB-052412                        Date Analyzed: 05/29/12 16:22
Lab Samp ID: E204-24                          Dilution Factor: 1
Lab File ID: EE29010A                        Matrix          : WATER
Ext Btch ID: VG39E17                         % Moisture     : NA
Calib. Ref.: EE29002A                       Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)**	28J	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	33.5	40.00	83.7 60-140

RL : Reporting Limit  
 \*\*: Discrete peak(s) reported.

METHOD 5030B/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.   : 12E204                           Date Extracted: 05/29/12 14:14
Sample ID   : MBLK1W                           Date Analyzed: 05/29/12 14:14
Lab Samp ID: VG39E17Q                         Dilution Factor: 1
Lab File ID: EE29007A                        Matrix          : WATER
Ext Btch ID: VG39E17                          % Moisture     : NA
Calib. Ref.: EE29002A                        Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
GASOLINE RANGE ORGANICS (C5-C12)	ND	50	10
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	34.8	40.00	87.0 60-130

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 5030B/8015B GRO

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: VG39E17Q VG39E17L VG39E17C  
LAB FILE ID: EE29007A EE29004A EE29005A  
DATE EXTRACTED: 05/29/1214:14 05/29/1212:08 05/29/1212:50 DATE COLLECTED: NA  
DATE ANALYZED: 05/29/1214:14 05/29/1212:08 05/29/1212:50 DATE RECEIVED: 05/29/12  
PREP. BATCH: VG39E17 VG39E17 VG39E17  
CALIB. REF: EE29002A EE29002A EE29002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	500	481	96	500	478	96	1	60-130	30

=====

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	40.0	45.7	114	40.0	47.2	118	60-130

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project    : SSFL PHASE 3                       Date Received: 05/24/12
Batch No.  : 12E204                             Date Extracted: 05/30/12 22:02
Sample ID: SL-704-SA5C-SB-5.0                 Date Analyzed: 05/30/12 22:02
Lab Samp ID: E204-04                          Dilution Factor: 1.02
Lab File ID: EE29051A                         Matrix          : SOIL
Ext Btch ID: GME021S                          % Moisture     : 13.8
Calib. Ref.: EE29048A                         Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.59
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.93	2.367	81.4 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/25/12 15:55

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project    : SSFL PHASE 3                       Date Received: 05/24/12
Batch No.  : 12E204                             Date Extracted: 05/30/12 22:45
Sample ID: SL-704-SA5C-SB-10.0                 Date Analyzed: 05/30/12 22:45
Lab Samp ID: E204-06                           Dilution Factor: 0.99
Lab File ID: EE29052A                          Matrix          : SOIL
Ext Btch ID: GME021S                            % Moisture     : 9.3
Calib. Ref.: EE29048A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.55
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.82	2.183	83.4 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/25/12 15:55

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project    : SSFL PHASE 3                       Date Received: 05/24/12
Batch No.  : 12E204                             Date Extracted: 05/30/12 23:28
Sample ID: SL-694-SA5C-SB-5.0                 Date Analyzed: 05/30/12 23:28
Lab Samp ID: E204-08                          Dilution Factor: 0.92
Lab File ID: EE29053A                         Matrix       : SOIL
Ext Btch ID: GME021S                          % Moisture  : 9.3
Calib. Ref.: EE29048A                         Instrument ID : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.51
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.72	2.029	84.7 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/25/12 15:55

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.   : 12E204                           Date Extracted: 05/31/12 00:11
Sample ID   : SL-694-SA5C-SB-10.0             Date Analyzed: 05/31/12 00:11
Lab Samp ID: E204-10                           Dilution Factor: 0.85
Lab File ID: EE29054A                          Matrix          : SOIL
Ext Btch ID: GME021S                           % Moisture     : 12.7
Calib. Ref.: EE29048A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.97	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.55	1.947	79.7 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/25/12 15:55

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/31/12 00:55
Sample ID:   SL-672-SA5C-SB-5.0                Date Analyzed: 05/31/12 00:55
Lab Samp ID: E204-13                            Dilution Factor: 0.88
Lab File ID: EE29055A                          Matrix          : SOIL
Ext Btch ID: GME021S                            % Moisture     : 11.0
Calib. Ref.: EE29048A                          Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	0.99	0.49
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.63	1.978	82.3 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/25/12 15:55

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.   : 12E204                           Date Extracted: 05/31/12 01:38
Sample ID:  SL-677-SA5C-SB-5.0                Date Analyzed: 05/31/12 01:38
Lab Samp ID: E204-18                           Dilution Factor: 1.05
Lab File ID: EE29056A                           Matrix          : SOIL
Ext Btch ID: GME021S                             % Moisture     : 13.9
Calib. Ref.: EE29048A                           Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.61
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.95	2.439	79.8 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/25/12 15:55

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date  Collected: 05/24/12
Project    : SSFL PHASE 3                       Date  Received: 05/24/12
Batch No.  : 12E204                             Date  Extracted: 05/31/12 02:21
Sample ID: SL-705-SA5C-SB-5.0                 Date  Analyzed: 05/31/12 02:21
Lab Samp ID: E204-21                           Dilution Factor: 1.05
Lab File ID: EE29057A                          Matrix      : SOIL
Ext Btch ID: GME021S                            % Moisture  : 12.0
Calib. Ref.: EE29048A                          Instrument ID : GCT039
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.2	0.60
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.98	2.386	82.8 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/25/12 15:55

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.   : 12E204                           Date Extracted: 05/31/12 03:05
Sample ID   : SL-705-SA5C-SB-10.0             Date Analyzed: 05/31/12 03:05
Lab Samp ID: E204-23                           Dilution Factor: 0.94
Lab File ID: EE29058A                          Matrix          : SOIL
Ext Btch ID: GME021S                           % Moisture     : 13.2
Calib. Ref.: EE29048A                          Instrument ID  : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
-----	-----	-----	-----
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.1	0.54
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
-----	-----	-----	-----
4-BROMOFLUOROBENZENE	1.76	2.166	81.4 70-140

RL : Reporting Limit  
 Methanol Extraction: 05/25/12 15:55

METHOD 5035/8015B GRO  
 PETROLEUM HYDROCARBONS BY PURGE AND TRAP

```

=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.  : 12E204                           Date Extracted: 05/30/12 19:10
Sample ID  : MBLK1S                           Date Analyzed: 05/30/12 19:10
Lab Samp ID: GME021SB                        Dilution Factor: 1
Lab File ID: EE29047A                       Matrix          : SOIL
Ext Btch ID: GME021S                        % Moisture     : NA
Calib. Ref.: EE29037A                       Instrument ID   : GCT039
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS (C5-C12)	ND	1.0	0.50
SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY QC LIMIT
4-BROMOFLUOROBENZENE	1.72	2.000	86.0 60-130

RL : Reporting Limit  
 Methanol Extraction: 05/25/12 15:55

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 5035/8015B GRO

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: GME021SB GME021SL GME021SC  
LAB FILE ID: EE29047A EE29049A EE29050A  
DATE EXTRACTED: 05/30/1219:10 05/30/1220:36 05/30/1221:19 DATE COLLECTED: NA  
DATE ANALYZED: 05/30/1219:10 05/30/1220:36 05/30/1221:19 DATE RECEIVED: 05/30/12  
PREP. BATCH: GME021S GME021S GME021S  
CALIB. REF: EE29037A EE29048A EE29048A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
GASOLINE RANGE ORGANICS (C5-C12)	ND	25.0	22.5	90	25.0	22.2	89	1	60-130	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
4-Bromofluorobenzene	2.00	2.35	118	2.00	2.25	112	60-130

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/29/12 13:45
Sample ID    : EB-052412                        Date Analyzed: 05/31/12 01:59
Lab Samp ID  : E204-01                          Dilution Factor: 1.08
Lab File ID  : LE30045A                         Matrix          : WATER
Ext Btch ID  : DSE038W                          % Moisture     : NA
Calib. Ref.  : LE30038A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.11	0.054
EFH(C12-C14)	ND	0.11	0.054
EFH(C15-C20)	ND	0.11	0.054
EFH(C21-C30)	ND	0.11	0.054
EFH(C30-C40)	ND	0.11	0.054
TOTAL EFH(C8-C40)	ND	0.11	0.054

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.928	1.080	85.9	40-130
HEXACOSANE	0.235	0.2700	87.0	40-150

RL : Reporting Limit

METHOD 3520C/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.    : 12E204                             Date Extracted: 05/29/12 13:45
Sample ID    : MBLK1W                             Date Analyzed: 05/30/12 21:09
Lab Samp ID  : DSE038WB                           Dilution Factor: 1
Lab File ID  : LE30028A                           Matrix          : WATER
Ext Btch ID  : DSE038W                             % Moisture      : NA
Calib. Ref.  : LE30026A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
EFH(C8-C11)	ND	0.10	0.050
EFH(C12-C14)	ND	0.10	0.050
EFH(C15-C20)	ND	0.10	0.050
EFH(C21-C30)	ND	0.10	0.050
EFH(C30-C40)	ND	0.10	0.050
TOTAL EFH(C8-C40)	ND	0.10	0.050

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	0.927	1.000	92.7	40-130
HEXACOSANE	0.245	0.2500	97.8	40-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 3520C/8015B EFH

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: DSE038WB DSE038WL DSE038WC  
LAB FILE ID: LE30028A LE30029A LE30030A  
DATE EXTRACTED: 05/29/1213:45 05/29/1213:45 05/29/1213:45 DATE COLLECTED: NA  
DATE ANALYZED: 05/30/1221:09 05/30/1221:26 05/30/1221:43 DATE RECEIVED: 05/29/12  
PREP. BATCH: DSE038W DSE038W DSE038W  
CALIB. REF: LE30026A LE30026A LE30026A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	5.00	6.24	125	5.00	6.43	129	3	20-150	30

=====

SURROGATE PARAMETER	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	QC LIMIT ( % )
Bromobenzene	1.00	0.898	90	1.00	0.982	98	40-130
Hexacosane	0.250	0.235	94	0.250	0.250	100	40-150

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID:   SL-704-SA5C-SB-0.0-0.5            Date Analyzed: 05/31/12 12:29
Lab Samp ID: E204-02                            Dilution Factor: 1
Lab File ID: LE30082A                          Matrix          : SOIL
Ext Btch ID: DSE039S                            % Moisture     : 10.6
Calib. Ref.: LE30073A                          Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	36	5.6	2.8
EFH(C30-C40)	60	11	5.6
TOTAL EFH(C8-C40)	96	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	82.7	111.9	73.9	50-150
HEXACOSANE	25.7	27.96	91.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID    : SL-704-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 09:39
Lab Samp ID  : E204-03T                         Dilution Factor: 5
Lab File ID  : LE30072A                        Matrix          : SOIL
Ext Btch ID  : DSE039S                         % Moisture     : 14.0
Calib. Ref. : LE30061A                        Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	29	15
EFH(C12-C14)	ND	29	15
EFH(C15-C20)	ND	29	15
EFH(C21-C30)	85	29	15
EFH(C30-C40)	190	58	29
TOTAL EFH(C8-C40)	280	29	15

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.7	116.3	70.3	50-150
HEXACOSANE	28.2	29.07	97.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID:   SL-704-SA5C-SB-9.0-10.0           Date Analyzed: 05/31/12 07:39
Lab Samp ID: E204-05                             Dilution Factor: 1
Lab File ID: LE30065A                           Matrix          : SOIL
Ext Btch ID: DSE039S                             % Moisture     : 10.7
Calib. Ref.: LE30061A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	9.7	5.6	2.8
EFH(C30-C40)	11	11	5.6
TOTAL EFH(C8-C40)	21	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	83.9	112.0	75.0	50-150
HEXACOSANE	21.9	28.00	78.4	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID:   SL-694-SA5C-SB-0.0-0.5           Date Analyzed: 05/31/12 08:30
Lab Samp ID: E204-07                           Dilution Factor: 1
Lab File ID: LE30068A                          Matrix          : SOIL
Ext Btch ID: DSE039S                            % Moisture     : 14.4
Calib. Ref.: LE30061A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	ND	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	ND	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	88.1	116.8	75.4	50-150
HEXACOSANE	21.3	29.21	72.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID    : SL-694-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 08:47
Lab Samp ID  : E204-09                           Dilution Factor: 1
Lab File ID  : LE30069A                          Matrix          : SOIL
Ext Btch ID  : DSE039S                           % Moisture     : 9.9
Calib. Ref. : LE30061A                          Instrument ID   : GCT105
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.5	2.8
EFH(C12-C14)	ND	5.5	2.8
EFH(C15-C20)	ND	5.5	2.8
EFH(C21-C30)	ND	5.5	2.8
EFH(C30-C40)	ND	11	5.5
TOTAL EFH(C8-C40)	ND	5.5	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	78.5	111.0	70.8	50-150
HEXACOSANE	19.4	27.75	69.9	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID:   SL-694-SA5C-SB-9.0-10.0           Date Analyzed: 05/31/12 09:04
Lab Samp ID: E204-11                             Dilution Factor: 1
Lab File ID: LE30070A                           Matrix          : SOIL
Ext Btch ID: DSE039S                            % Moisture     : 12.8
Calib. Ref.: LE30061A                           Instrument ID  : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	ND	5.7	2.9
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.8	114.7	71.3	50-150
HEXACOSANE	20.4	28.67	71.1	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID    : SL-672-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 11:21
Lab Samp ID  : E204-12                          Dilution Factor: 1
Lab File ID  : LE30078A                         Matrix          : SOIL
Ext Btch ID  : DSE039S                          % Moisture     : 10.7
Calib. Ref.  : LE30073A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	16	5.6	2.8
EFH(C30-C40)	31	11	5.6
TOTAL EFH(C8-C40)	47	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.6	112.0	72.8	50-150
HEXACOSANE	21.8	28.00	77.8	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID:   SL-672-SA5C-SB-4.0-5.0           Date Analyzed: 05/31/12 11:38
Lab Samp ID: E204-14                           Dilution Factor: 1
Lab File ID: LE30079A                          Matrix          : SOIL
Ext Btch ID: DSE039S                           % Moisture     : 15.9
Calib. Ref.: LE30073A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.9	3.0
EFH(C12-C14)	ND	5.9	3.0
EFH(C15-C20)	ND	5.9	3.0
EFH(C21-C30)	43	5.9	3.0
EFH(C30-C40)	75	12	5.9
TOTAL EFH(C8-C40)	120	5.9	3.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	91.9	118.9	77.3	50-150
HEXACOSANE	29.9	29.73	100	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID:   SL-677-SA5C-SB-0.0-0.5           Date Analyzed: 05/31/12 09:21
Lab Samp ID: E204-16                           Dilution Factor: 1
Lab File ID: LE30071A                          Matrix          : SOIL
Ext Btch ID: DSE039S                            % Moisture     : 14.4
Calib. Ref.: LE30061A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.8	2.9
EFH(C12-C14)	ND	5.8	2.9
EFH(C15-C20)	ND	5.8	2.9
EFH(C21-C30)	3.7J	5.8	2.9
EFH(C30-C40)	ND	12	5.8
TOTAL EFH(C8-C40)	3.7J	5.8	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	89.4	116.8	76.5	50-150
HEXACOSANE	23.3	29.21	79.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID    : SL-677-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 11:55
Lab Samp ID  : E204-17                          Dilution Factor: 1
Lab File ID  : LE30080A                         Matrix          : SOIL
Ext Btch ID  : DSE039S                          % Moisture     : 12.4
Calib. Ref. : LE30073A                         Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	15	5.7	2.9
EFH(C30-C40)	26	11	5.7
TOTAL EFH(C8-C40)	41	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	84.9	114.2	74.4	50-150
HEXACOSANE	24.2	28.54	84.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID    : SL-705-SA5C-SB-0.0-0.5          Date Analyzed: 05/31/12 07:05
Lab Samp ID  : E204-19                           Dilution Factor: 1
Lab File ID  : LE30063A                          Matrix          : SOIL
Ext Btch ID  : DSE039S                           % Moisture     : 11.7
Calib. Ref. : LE30061A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.8
EFH(C12-C14)	ND	5.7	2.8
EFH(C15-C20)	ND	5.7	2.8
EFH(C21-C30)	ND	5.7	2.8
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	87.1	113.3	76.9	50-150
HEXACOSANE	23.3	28.31	82.2	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID    : SL-705-SA5C-SB-4.0-5.0          Date Analyzed: 05/31/12 12:12
Lab Samp ID  : E204-20                           Dilution Factor: 1
Lab File ID  : LE30081A                          Matrix           : SOIL
Ext Btch ID  : DSE039S                           % Moisture      : 11.4
Calib. Ref.  : LE30073A                          Instrument ID    : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.6	2.8
EFH(C12-C14)	ND	5.6	2.8
EFH(C15-C20)	ND	5.6	2.8
EFH(C21-C30)	16	5.6	2.8
EFH(C30-C40)	32	11	5.6
TOTAL EFH(C8-C40)	48	5.6	2.8

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	86.1	112.9	76.3	50-150
HEXACOSANE	24.2	28.22	85.7	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 10:07
Sample ID    : SL-705-SA5C-SB-9.0-10.0         Date Analyzed: 05/31/12 07:22
Lab Samp ID  : E204-22                           Dilution Factor: 1
Lab File ID  : LE30064A                          Matrix          : SOIL
Ext Btch ID  : DSE039S                           % Moisture     : 12.4
Calib. Ref.  : LE30061A                          Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.7	2.9
EFH(C12-C14)	ND	5.7	2.9
EFH(C15-C20)	ND	5.7	2.9
EFH(C21-C30)	ND	5.7	2.9
EFH(C30-C40)	ND	11	5.7
TOTAL EFH(C8-C40)	ND	5.7	2.9

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.8	114.2	71.6	50-150
HEXACOSANE	20.7	28.54	72.6	50-150

RL : Reporting Limit

METHOD 3550B/8015B EFH  
 PETROLEUM HYDROCARBONS BY EXTRACTION

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.    : 12E204                             Date Extracted: 05/30/12 10:07
Sample ID    : MBLK1S                             Date Analyzed: 05/31/12 05:57
Lab Samp ID  : DSE039SB                           Dilution Factor: 1
Lab File ID  : LE30059A                           Matrix          : SOIL
Ext Btch ID  : DSE039S                             % Moisture      : NA
Calib. Ref.  : LE30049A                           Instrument ID   : GCT105
=====
    
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
EFH(C8-C11)	ND	5.0	2.5
EFH(C12-C14)	ND	5.0	2.5
EFH(C15-C20)	ND	5.0	2.5
EFH(C21-C30)	ND	5.0	2.5
EFH(C30-C40)	ND	10	5.0
TOTAL EFH(C8-C40)	ND	5.0	2.5

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	81.7	100.0	81.7	50-150
HEXACOSANE	20.7	25.00	82.9	50-150

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: DSE039SB DSE039SL DSE039SC  
LAB FILE ID: LE30059A LE30057A LE30058A  
DATE EXTRACTED: 05/30/1210:07 05/30/1210:07 05/30/1210:07 DATE COLLECTED: NA  
DATE ANALYZED: 05/31/1205:57 05/31/1205:23 05/31/1205:40 DATE RECEIVED: 05/30/12  
PREP. BATCH: DSE039S DSE039S DSE039S  
CALIB. REF: LE30049A LE30049A LE30049A

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	ND	500	433	87	500	418	84	4	50-140	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT ( % )
Bromobenzene	100	86.6	87	100	84.3	84	50-150
Hexacosane	25.0	21.8	87	25.0	21.1	84	50-150

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 3550B/8015B EFH

=====

MATRIX: SOIL % MOISTURE: 10.7  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-704-SA5C-SB-9.0-10.0  
LAB SAMP ID: E204-05 E204-05M E204-05S  
LAB FILE ID: LE30065A LE30066A LE30067A  
DATE EXTRACTED: 05/30/1210:07 05/30/1210:07 05/30/1210:07 DATE COLLECTED: 05/24/12  
DATE ANALYZED: 05/31/1207:39 05/31/1207:56 05/31/1208:13 DATE RECEIVED: 05/24/12  
PREP. BATCH: DSE039S DSE039S DSE039S  
CALIB. REF: LE30061A LE30061A LE30061A

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Total EFH(C8-C40)	20.7	560	469	80	560	485	83	3	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	MS RSLT (mg/kg)	MS % REC	SPIKE AMT (mg/kg)	MSD RSLT (mg/kg)	MSD % REC	QC LIMIT ( % )
Bromobenzene	112	92.4	82	112	90.7	81	50-150
Hexacosane	28.0	24.8	89	28.0	24.5	88	50-150

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                       Date Received: 05/24/12
Batch No.   : 12E204                             Date Extracted: 05/29/12 11:23
Sample ID   : EB-052412                          Date Analyzed: 05/29/12 11:23
Lab Samp ID : E204-01                             Dilution Factor: 1
Lab File ID : BE29006A                           Matrix          : WATER
Ext Btch ID : MEE004W                             % Moisture     : NA
Calib. Ref. : BE29002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

METHOD 8015B  
ALCOHOLS BY GC

```
=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/29/12
Batch No.    : 12E204                             Date Extracted: 05/29/12 10:23
Sample ID    : MBLK1W                             Date Analyzed: 05/29/12 10:23
Lab Samp ID  : MEE004WB                           Dilution Factor: 1
Lab File ID  : BE29003A                           Matrix          : WATER
Ext Btch ID  : MEE004W                             % Moisture     : NA
Calib. Ref.  : BE29002A                           Instrument ID   : GCT072
=====
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ETHANOL	ND	1000	500
ISOPROPANOL	ND	1000	500
METHANOL	ND	1000	500

RL : Reporting Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 8015B

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: MEE004WB MEE004WL MEE004WC  
LAB FILE ID: BE29003A BE29004A BE29005A  
DATE EXTRACTED: 05/29/1210:23 05/29/1210:40 05/29/1211:02 DATE COLLECTED: NA  
DATE ANALYZED: 05/29/1210:23 05/29/1210:40 05/29/1211:02 DATE RECEIVED: 05/29/12  
PREP. BATCH: MEE004W MEE004W MEE004W  
CALIB. REF: BE29002A BE29002A BE29002A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Ethanol	ND	10000	10500	105	10000	11600	116	9	50-150	30
Isopropanol	ND	10000	9700	97	10000	10700	107	9	50-150	30
Methanol	ND	10000	9850	98	10000	9030	90	9	50-150	30

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.   : 12E204                           Date Extracted: 05/29/12 14:29
Sample ID   : EB-052412                        Date Analyzed: 05/29/12 14:29
Lab Samp ID: E204-01                           Dilution Factor: 1
Lab File ID: TE29012A                          Matrix          : WATER
Ext Btch ID: PEE007W                           % Moisture     : NA
Calib. Ref.: TE29007A                          Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

METHOD 8015M  
GLYCOLS

```
=====
Client      : CDM                               Date Collected: NA
Project     : SSFL PHASE 3                     Date Received: 05/29/12
Batch No.   : 12E204                           Date Extracted: 05/29/12 13:56
Sample ID   : MBLK1W                           Date Analyzed: 05/29/12 13:56
Lab Samp ID: PEE007WB                         Dilution Factor: 1
Lab File ID: TE29010A                        Matrix          : WATER
Ext Btch ID: PEE007W                          % Moisture     : NA
Calib. Ref.: TE29007A                        Instrument ID   : GCT050
=====
```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
DIETHYLENE GLYCOL	ND	10	5.0
ETHYLENE GLYCOL	ND	10	5.0
PROPYLENE GLYCOL	ND	10	2.5

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 8015M

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PEE007WB PEE007WL PEE007WY  
LAB FILE ID: TE29010A TE29008A TE29013A  
DATE EXTRACTED: 05/29/1213:56 05/29/1211:57 05/29/1214:56 DATE COLLECTED: NA  
DATE ANALYZED: 05/29/1213:56 05/29/1211:57 05/29/1214:56 DATE RECEIVED: 05/29/12  
PREP. BATCH: PEE007W PEE007W PEE007W  
CALIB. REF: TE29007A TE29007A TE29007A

ACCESSION:

PARAMETER	BLNK RSLT (mg/L)	SPIKE AMT (mg/L)	BS RSLT (mg/L)	BS % REC	SPIKE AMT (mg/L)	BSD RSLT (mg/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Diethylene Glycol	ND	50.0	46.7	93	50.0	51.3	103	9	50-150	30
Ethylene Glycol	ND	50.0	46.2	92	50.0	49.5	99	7	50-150	30
Propylene Glycol	ND	25.0	24.2	97	25.0	26.4	105	8	50-150	30

METHOD 3520C/8081A  
PESTICIDES

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 14:00
Sample ID    : EB-052412                       Date Analyzed: 06/05/12 21:56
Lab Samp ID  : E204-01                         Dilution Factor: 1.05
Lab File ID  : MF05033B                       Matrix          : WATER
Ext Btch ID  : CPE040W                        % Moisture     : NA
Calib. Ref.  : MF05026B                       Instrument ID   : GCE8
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ALPHA-BHC	0.097J   (ND)	0.10	0.011   0.011
GAMMA-BHC (LINDANE)	ND   (ND)	0.10	0.011   0.011
BETA-BHC	ND   (ND)	0.10	0.011   0.011
HEPTACHLOR	ND   (ND)	0.10	0.011   0.011
DELTA-BHC	ND   (ND)	0.10	0.011   0.011
ALDRIN	ND   (ND)	0.10	0.011   0.011
HEPTACHLOR EPOXIDE	ND   (ND)	0.10	0.011   0.011
ENDOSULFAN I	ND   (ND)	0.10	0.011   0.011
4,4'-DDE	ND   (ND)	0.10	0.011   0.011
DIELDRIN	0.060J   (ND)	0.10	0.011   0.011
ENDRIN	ND   (ND)	0.10	0.011   0.011
4,4'-DDD	ND   (ND)	0.10	0.011   0.011
ENDOSULFAN II	0.022J   (ND)	0.10	0.011   0.011
4,4'-DDT	ND   (ND)	0.10	0.011   0.011
ENDRIN ALDEHYDE	ND   (ND)	0.10	0.011   0.011
ENDOSULFAN SULFATE	ND   (ND)	0.10	0.011   0.011
ENDRIN KETONE	ND   (ND)	0.10	0.011   0.011
METHOXYCHLOR	ND   (ND)	1.0	0.10   0.10
MIREX	ND   (ND)	0.10	0.011   0.011
TOXAPHENE	ND   (ND)	2.1	0.52   0.52
CHLORDANE (TECHNICAL)	ND   (ND)	1.0	0.26   0.26

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	0.5141   (0.4250)	0.4200	122   (101)	60-140
DECACHLOROBIPHENYL	0.5659   (0.4853)	0.4200	135*   (116)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

METHOD 3520C/8081A  
PESTICIDES

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                       Date Received: 05/30/12
Batch No.    : 12E204                             Date Extracted: 05/30/12 14:00
Sample ID    : MBLK1W                             Date Analyzed: 06/05/12 20:47
Lab Samp ID  : CPE040WB                          Dilution Factor: 1
Lab File ID  : MF05030B                          Matrix          : WATER
Ext Btch ID  : CPE040W                           % Moisture     : NA
Calib. Ref.  : MF05026B                          Instrument ID   : GCE8
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ALPHA-BHC	ND   (ND)	0.10	0.010   0.010
GAMMA-BHC (LINDANE)	ND   (ND)	0.10	0.010   0.010
BETA-BHC	ND   (ND)	0.10	0.010   0.010
HEPTACHLOR	ND   (ND)	0.10	0.010   0.010
DELTA-BHC	ND   (ND)	0.10	0.010   0.010
ALDRIN	ND   (ND)	0.10	0.010   0.010
HEPTACHLOR EPOXIDE	ND   (ND)	0.10	0.010   0.010
ENDOSULFAN I	ND   (ND)	0.10	0.010   0.010
4,4'-DDE	ND   (ND)	0.10	0.010   0.010
DIELDRIN	ND   (ND)	0.10	0.010   0.010
ENDRIN	ND   (ND)	0.10	0.010   0.010
4,4'-DDD	ND   (ND)	0.10	0.010   0.010
ENDOSULFAN II	ND   (ND)	0.10	0.010   0.010
4,4'-DDT	ND   (ND)	0.10	0.010   0.010
ENDRIN ALDEHYDE	ND   (ND)	0.10	0.010   0.010
ENDOSULFAN SULFATE	ND   (ND)	0.10	0.010   0.010
ENDRIN KETONE	ND   (ND)	0.10	0.010   0.010
METHOXYCHLOR	ND   (ND)	1.0	0.10   0.10
MIREX	ND   (ND)	0.10	0.010   0.010
TOXAPHENE	ND   (ND)	2.0	0.50   0.50
CHLORDANE (TECHNICAL)	ND   (ND)	1.0	0.25   0.25

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TETRACHLORO-M-XYLENE	0.5324   (0.4397)	0.4000	133   (110)	60-140
DECACHLOROBIPHENYL	0.5527   (0.4809)	0.4000	138*   (120)	20-120

RL : Reporting limit  
Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 3520C/8081A

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPE040WB CPE040WL CPE040WC  
LAB FILE ID: MF05030B MF05031B MF05032B  
DATE EXTRACTED: 05/30/1214:00 05/30/1214:00 05/30/1214:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1220:47 06/05/1221:10 06/05/1221:33 DATE RECEIVED: 05/30/12  
PREP. BATCH: CPE040W CPE040W CPE040W  
CALIB. REF: MF05026B MF05026B MF05026B

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
alpha-BHC	ND   (ND)	0.200	0.287   (0.220)	144   (110)	0.200	0.296   (0.229)	148   (114)	3   (4)	30-150	30
gamma-BHC (Lindane)	ND   (ND)	0.200	0.272   (0.226)	136*   (113)	0.200	0.282   (0.234)	141*   (117)	4   (3)	40-130	30
beta-BHC	ND   (ND)	0.200	0.265   (0.245)	132*   (122)	0.200	0.272   (0.239)	136*   (119)	3   (2)	60-130	30
Heptachlor	ND   (ND)	0.200	0.262   (0.214)	131   (107)	0.200	0.272   (0.221)	136   (110)	4   (3)	30-140	30
delta-BHC	ND   (ND)	0.200	0.291   (0.232)	146   (116)	0.200	0.287   (0.240)	144   (120)	1   (3)	30-150	30
Aldrin	ND   (ND)	0.200	0.249   (0.211)	124   (105)	0.200	0.259   (0.215)	130   (108)	4   (2)	40-130	30
Heptachlor Epoxide	ND   (ND)	0.200	0.265   (0.220)	132   (110)	0.200	0.270   (0.225)	135   (112)	2   (2)	50-140	30
Endosulfan I	ND   (ND)	0.200	0.249   (0.219)	124   (110)	0.200	0.254   (0.222)	127   (111)	2   (1)	60-140	30
4,4'-DDE	ND   (ND)	0.200	0.269   (0.242)	134   (121)	0.200	0.269   (0.246)	134   (123)	0   (2)	50-140	30
Dieldrin	ND   (ND)	0.200	0.275   (0.224)	138   (112)	0.200	0.278   (0.226)	139   (113)	1   (1)	60-140	30
Endrin	ND   (ND)	0.200	0.280   (0.222)	140   (111)	0.200	0.282   (0.224)	141*   (112)	1   (1)	50-140	30
4,4'-DDD	ND   (ND)	0.200	0.285   (0.253)	142   (126)	0.200	0.286   (0.257)	143   (128)	0   (2)	50-160	30
Endosulfan II	ND   (ND)	0.200	0.302   (0.238)	151*   (119)	0.200	0.304   (0.240)	152*   (120)	1   (1)	60-150	30
4,4'-DDT	ND   (ND)	0.200	0.338   (0.254)	169*   (127)	0.200	0.345   (0.255)	172*   (127)	2   (0)	60-140	30
Endrin aldehyde	ND   (ND)	0.200	0.295   (0.240)	147   (120)	0.200	0.296   (0.242)	148   (121)	0   (1)	60-160	30
Endosulfan Sulfate	ND   (ND)	0.200	0.296   (0.237)	148*   (118)	0.200	0.296   (0.241)	148*   (120)	0   (2)	70-140	30
Endrin Ketone	ND   (ND)	0.200	0.293   (0.234)	146   (117)	0.200	0.297   (0.236)	148   (118)	1   (1)	30-150	30
Methoxychlor	ND   (ND)	2.00	2.95   (2.48)	148   (124)	2.00	2.99   (2.55)	150   (128)	1   (3)	70-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Tetrachloro-m-xylene	0.4000	0.5105   (0.4242)	128   (106)	0.4000	0.5283   (0.4426)	132   (111)	60-140
Decachlorobiphenyl	0.4000	0.5319   (0.4579)	133*   (114)	0.4000	0.5450   (0.4706)	136*   (118)	20-120

METHOD 3520C/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 14:00
Sample ID    : EB-052412                        Date Analyzed: 06/05/12 17:29
Lab Samp ID  : E204-01                          Dilution Factor: 1.05
Lab File ID  : SF05015A                         Matrix          : WATER
Ext Btch ID  : CPE040W                          % Moisture     : NA
Calib. Ref. : SF05006A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.52   0.52
AROCLOR 1221	(ND)   ND	1.0	0.52   0.52
AROCLOR 1232	(ND)   ND	1.0	0.52   0.52
AROCLOR 1242	(ND)   ND	1.0	0.52   0.52
AROCLOR 1248	(ND)   ND	1.0	0.52   0.52
AROCLOR 1254	(ND)   ND	1.0	0.52   0.52
AROCLOR 1260	(ND)   ND	1.0	0.52   0.52
AROCLOR 1262	(ND)   ND	1.0	0.52   0.52
AROCLOR 1268	(ND)   ND	1.0	0.52   0.52
AROCLOR 5432	(ND)   ND	2.1	1.0   1.0
AROCLOR 5442	(ND)   ND	2.1	1.0   1.0
AROCLOR 5460	(ND)   ND	2.1	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.4196)   0.4124	0.4200	(99.9)   98.2	45-120
TETRACHLORO-M-XYLENE	0.3613   (0.4408)	0.4200	86.0   (105)	30-140

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3520C/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 05/30/12
Batch No.    : 12E204                           Date Extracted: 05/30/12 14:00
Sample ID    : MBLK1W                           Date Analyzed: 06/05/12 15:24
Lab Samp ID  : CPE040WB                         Dilution Factor: 1
Lab File ID  : SF05011A                        Matrix          : WATER
Ext Btch ID  : CPE040W                          % Moisture     : NA
Calib. Ref.  : SF05006A                        Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
AROCLOR 1016	(ND)   ND	1.0	0.50   0.50
AROCLOR 1221	(ND)   ND	1.0	0.50   0.50
AROCLOR 1232	(ND)   ND	1.0	0.50   0.50
AROCLOR 1242	(ND)   ND	1.0	0.50   0.50
AROCLOR 1248	(ND)   ND	1.0	0.50   0.50
AROCLOR 1254	(ND)   ND	1.0	0.50   0.50
AROCLOR 1260	(ND)   ND	1.0	0.50   0.50
AROCLOR 1262	(ND)   ND	1.0	0.50   0.50
AROCLOR 1268	(ND)   ND	1.0	0.50   0.50
AROCLOR 5432	(ND)   ND	2.0	1.0   1.0
AROCLOR 5442	(ND)   ND	2.0	1.0   1.0
AROCLOR 5460	(ND)   ND	2.0	1.0   1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(0.3911)   0.4964	0.4000	(97.8)   124*	45-120
TETRACHLORO-M-XYLENE	(0.4370)   0.4307	0.4000	(109)   108	30-140

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 3520C/8082

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: CPE040WB 60E040WX 60E040WY  
LAB FILE ID: SF05011A SF05012A SF05013A  
DATE EXTRACTED: 05/30/1214:00 05/30/1214:00 05/30/1214:00 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1215:24 06/05/1215:58 06/05/1216:32 DATE RECEIVED: 05/30/12  
PREP. BATCH: CPE040W CPE040W CPE040W  
CALIB. REF: SF05006A SF05006A SF05006A

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	5.00	(5.03)   4.94	(101)   99	5.00	(4.89)   4.65	(98)   93	(3)   6	50-130	30
Aroclor 1260	(ND)   ND	5.00	5.44   (5.68)	109   (114)	5.00	(5.29)   5.24	(106)   105	(3)   8	60-150	30
Aroclor 5460	(ND)   ND	2.50	(3.18)   3.09	(127)   124	2.50	(3.06)   2.97	(122)   119	(4)   4	50-150	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	0.4000	0.4201   (0.4448)	105   (111)	0.4000	0.3854   (0.4116)	96.4   (103)	45-120
Tetrachloro-m-xylene	0.4000	(0.4291)   0.4116	(107)   103	0.4000	(0.4203)   0.4126	(105)   103	30-140

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID    : SL-704-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 00:20
Lab Samp ID  : E204-02                           Dilution Factor: 1
Lab File ID  : SF05027A                         Matrix          : SOIL
Ext Btch ID  : CPF001S                          % Moisture     : 10.6
Calib. Ref.  : SF05024A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	10.30   (11.35)	14.91	69.1   (76.1)	45-120
TETRACHLORO-M-XYLENE	(13.86)   13.57	14.91	(93.0)   91.0	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID    : SL-704-SA5C-SB-4.0-5.0          Date Analyzed: 06/06/12 00:54
Lab Samp ID  : E204-03                          Dilution Factor: 1
Lab File ID  : SF05028A                         Matrix          : SOIL
Ext Btch ID  : CPF001S                           % Moisture     : 14.0
Calib. Ref.  : SF05024A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	7.936   (8.563)	15.50	51.2   (55.2)	45-120
TETRACHLORO-M-XYLENE	(10.52)   9.952	15.50	(67.8)   64.2	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project    : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.  : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID  : SL-704-SA5C-SB-9.0-10.0         Date Analyzed: 06/06/12 01:28
Lab Samp ID: E204-05                          Dilution Factor: 1
Lab File ID: SF05029A                        Matrix          : SOIL
Ext Btch ID: CPF001S                          % Moisture     : 10.7
Calib. Ref.: SF05024A                        Instrument ID  : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	10.55   (10.73)	14.93	70.6   (71.9)	45-120
TETRACHLORO-M-XYLENE	(12.13)   11.11	14.93	(81.3)   74.4	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project    : SSFL PHASE 3                       Date Received: 05/24/12
Batch No.  : 12E204                             Date Extracted: 06/01/12 15:10
Sample ID  : SL-694-SA5C-SB-0.0-0.5           Date Analyzed: 06/06/12 02:02
Lab Samp ID: E204-07                           Dilution Factor: 1
Lab File ID: SF05030A                          Matrix          : SOIL
Ext Btch ID: CPF001S                            % Moisture     : 14.4
Calib. Ref.: SF05024A                          Instrument ID   : GCT008
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.62   (11.78)	15.57	74.6   (75.6)	45-120
TETRACHLORO-M-XYLENE	(11.77)   10.70	15.57	(75.6)   68.7	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID    : SL-694-SA5C-SB-4.0-5.0          Date Analyzed: 06/06/12 02:37
Lab Samp ID  : E204-09                           Dilution Factor: 1
Lab File ID  : SF05031A                         Matrix          : SOIL
Ext Btch ID  : CPF001S                          % Moisture     : 9.9
Calib. Ref.  : SF05024A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	44	22   22	
AROCLOR 5442	(ND)   ND	44	22   22	
AROCLOR 5460	(ND)   ND	44	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.96   (12.16)	14.79	80.9   (82.2)	45-120
TETRACHLORO-M-XYLENE	(11.94)   10.88	14.79	(80.7)   73.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID    : SL-694-SA5C-SB-9.0-10.0         Date Analyzed: 06/06/12 03:11
Lab Samp ID  : E204-11                           Dilution Factor: 1
Lab File ID  : SF05032A                          Matrix          : SOIL
Ext Btch ID  : CPF001S                            % Moisture     : 12.8
Calib. Ref.  : SF05024A                          Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECAHCHLOROBIPHENYL	11.79   (12.10)	15.29	77.1   (79.2)	45-120
TETRACHLORO-M-XYLENE	(12.33)   11.78	15.29	(80.7)   77.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID    : SL-672-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 03:45
Lab Samp ID  : E204-12                           Dilution Factor: 1
Lab File ID  : SF05033A                          Matrix          : SOIL
Ext Btch ID  : CPF001S                            % Moisture     : 10.7
Calib. Ref.  : SF05024A                          Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	10.70   (11.44)	14.93	71.7   (76.6)	45-120
TETRACHLORO-M-XYLENE	(12.69)   12.69	14.93	85.0   (85.0)	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID    : SL-672-SA5C-SB-4.0-5.0          Date Analyzed: 06/06/12 04:19
Lab Samp ID  : E204-14                           Dilution Factor: 1
Lab File ID  : SF05034A                          Matrix          : SOIL
Ext Btch ID  : CPF001S                            % Moisture      : 15.9
Calib. Ref.  : SF05024A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	24	12   12	
AROCLOR 1221	(ND)   ND	24	12   12	
AROCLOR 1232	(ND)   ND	24	12   12	
AROCLOR 1242	(ND)   ND	24	12   12	
AROCLOR 1248	(ND)   ND	24	12   12	
AROCLOR 1254	(ND)   ND	24	12   12	
AROCLOR 1260	(ND)   ND	24	12   12	
AROCLOR 1262	(ND)   ND	24	12   12	
AROCLOR 1268	(ND)   ND	24	12   12	
AROCLOR 5432	(ND)   ND	48	24   24	
AROCLOR 5442	(ND)   ND	48	24   24	
AROCLOR 5460	(ND)   ND	48	24   24	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	9.858   (10.74)	15.85	62.2   (67.7)	45-120
TETRACHLORO-M-XYLENE	(12.83)   12.82	15.85	(81.0)   80.9	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID    : SL-739-SA5C-SB-9.0-10.0EX       Date Analyzed: 06/06/12 04:53
Lab Samp ID  : E204-15                           Dilution Factor: 1
Lab File ID  : SF05035A                          Matrix          : SOIL
Ext Btch ID  : CPF001S                            % Moisture     : 10.5
Calib. Ref.  : SF05024A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	22	11   11	
AROCLOR 1221	(ND)   ND	22	11   11	
AROCLOR 1232	(ND)   ND	22	11   11	
AROCLOR 1242	(ND)   ND	22	11   11	
AROCLOR 1248	(ND)   ND	22	11   11	
AROCLOR 1254	(ND)   ND	22	11   11	
AROCLOR 1260	(ND)   ND	22	11   11	
AROCLOR 1262	(ND)   ND	22	11   11	
AROCLOR 1268	(ND)   ND	22	11   11	
AROCLOR 5432	(ND)   ND	45	22   22	
AROCLOR 5442	(ND)   ND	45	22   22	
AROCLOR 5460	(ND)   ND	45	22   22	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(12.21)   11.82	14.89	(82.0)   79.4	45-120
TETRACHLORO-M-XYLENE	(11.04)   10.66	14.89	(74.1)   71.5	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.   : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID   : SL-677-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 05:28
Lab Samp ID : E204-16                           Dilution Factor: 1
Lab File ID : SF05036A                          Matrix          : SOIL
Ext Btch ID : CPF001S                            % Moisture     : 14.4
Calib. Ref. : SF05024A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	12   12	
AROCLOR 1221	(ND)   ND	23	12   12	
AROCLOR 1232	(ND)   ND	23	12   12	
AROCLOR 1242	(ND)   ND	23	12   12	
AROCLOR 1248	(ND)   ND	23	12   12	
AROCLOR 1254	(ND)   ND	23	12   12	
AROCLOR 1260	(ND)   ND	23	12   12	
AROCLOR 1262	(ND)   ND	23	12   12	
AROCLOR 1268	(ND)   ND	23	12   12	
AROCLOR 5432	(ND)   ND	47	23   23	
AROCLOR 5442	(ND)   ND	47	23   23	
AROCLOR 5460	(ND)   ND	47	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	11.33   (11.87)	15.57	72.7   (76.2)	45-120
TETRACHLORO-M-XYLENE	12.46   (12.47)	15.57	80.0   (80.1)	10-160

Left of | is related to first column ; Right of | related to second column  
 Final result indicated by ( )  
 \* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID    : SL-677-SA5C-SB-4.0-5.0          Date Analyzed: 06/06/12 06:02
Lab Samp ID  : E204-17                          Dilution Factor: 1
Lab File ID  : SF05037A                        Matrix          : SOIL
Ext Btch ID  : CPF001S                          % Moisture     : 12.4
Calib. Ref.  : SF05024A                        Instrument ID   : GCT008
=====
  
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	10.27   (11.13)	15.22	67.5   (73.1)	45-120
TETRACHLORO-M-XYLENE	(12.76)   11.94	15.22	(83.8)   78.5	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID    : SL-705-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 06:36
Lab Samp ID  : E204-19                           Dilution Factor: 1
Lab File ID  : SF05038A                          Matrix          : SOIL
Ext Btch ID  : CPF001S                            % Moisture     : 11.7
Calib. Ref.  : SF05024A                          Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	(12.11)   12.09	15.10	(80.2)   80.1	45-120
TETRACHLORO-M-XYLENE	(11.13)   10.46	15.10	(73.7)   69.3	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID    : SL-705-SA5C-SB-4.0-5.0          Date Analyzed: 06/06/12 07:10
Lab Samp ID  : E204-20                           Dilution Factor: 1
Lab File ID  : SF05039A                         Matrix          : SOIL
Ext Btch ID  : CPF001S                          % Moisture     : 11.4
Calib. Ref.  : SF05024A                         Instrument ID   : GCT008
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	45	23   23	
AROCLOR 5442	(ND)   ND	45	23   23	
AROCLOR 5460	(ND)   ND	45	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIIPHENYL	9.963   (10.84)	15.05	66.2   (72.1)	45-120
TETRACHLORO-M-XYLENE	(12.14)   11.83	15.05	(80.7)   78.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID    : SL-705-SA5C-SB-9.0-10.0         Date Analyzed: 06/06/12 07:44
Lab Samp ID  : E204-22                           Dilution Factor: 1
Lab File ID  : SF05040A                         Matrix          : SOIL
Ext Btch ID  : CPF001S                          % Moisture     : 12.4
Calib. Ref. : SF05024A                         Instrument ID   : GCT008
=====
  
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	23	11   11	
AROCLOR 1221	(ND)   ND	23	11   11	
AROCLOR 1232	(ND)   ND	23	11   11	
AROCLOR 1242	(ND)   ND	23	11   11	
AROCLOR 1248	(ND)   ND	23	11   11	
AROCLOR 1254	(ND)   ND	23	11   11	
AROCLOR 1260	(ND)   ND	23	11   11	
AROCLOR 1262	(ND)   ND	23	11   11	
AROCLOR 1268	(ND)   ND	23	11   11	
AROCLOR 5432	(ND)   ND	46	23   23	
AROCLOR 5442	(ND)   ND	46	23   23	
AROCLOR 5460	(ND)   ND	46	23   23	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(12.51)   12.39	15.22	(82.2)   81.4	45-120
TETRACHLORO-M-XYLENE	(11.15)   10.59	15.22	(73.3)   69.6	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

METHOD 3550B/8082  
PCBs

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/01/12
Batch No.    : 12E204                           Date Extracted: 06/01/12 15:10
Sample ID    : MBLK1S                           Date Analyzed: 06/05/12 18:03
Lab Samp ID  : 60F001SB                         Dilution Factor: 1
Lab File ID  : SF05016A                         Matrix          : SOIL
Ext Btch ID  : CPF001S                           % Moisture     : NA
Calib. Ref.  : SF05006A                         Instrument ID   : GCT008
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)	
AROCLOR 1016	(ND)   ND	20	10   10	
AROCLOR 1221	(ND)   ND	20	10   10	
AROCLOR 1232	(ND)   ND	20	10   10	
AROCLOR 1242	(ND)   ND	20	10   10	
AROCLOR 1248	(ND)   ND	20	10   10	
AROCLOR 1254	(ND)   ND	20	10   10	
AROCLOR 1260	(ND)   ND	20	10   10	
AROCLOR 1262	(ND)   ND	20	10   10	
AROCLOR 1268	(ND)   ND	20	10   10	
AROCLOR 5432	(ND)   ND	40	20   20	
AROCLOR 5442	(ND)   ND	40	20   20	
AROCLOR 5460	(ND)   ND	40	20   20	
SURROGATE PARAMETERS				
	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	11.43   (11.59)	13.33	85.7   (87.0)	45-120
TETRACHLORO-M-XYLENE	(10.71)   10.13	13.33	(80.4)   76.0	10-160

Left of | is related to first column ; Right of | related to second column  
Final result indicated by ( )  
\* Out side of QC Limit

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 3550B/8082

=====

MATRIX: SOIL % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1S  
LAB SAMP ID: 60F001SB 60F001SL 60F001SC  
LAB FILE ID: SF05016A SF05017A SF05018A  
DATE EXTRACTED: 06/01/1215:10 06/01/1215:10 06/01/1215:10 DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1218:03 06/05/1218:38 06/05/1219:12 DATE RECEIVED: 06/01/12  
PREP. BATCH: CPF001S CPF001S CPF001S  
CALIB. REF: SF05006A SF05006A SF05006A

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	167	(122)   121	(73)   73	167	(137)   133	(82)   80	(12)   9	50-130	50
Aroclor 1260	(ND)   ND	167	(157)   153	(94)   92	167	(156)   152	(94)   91	(1)   1	60-150	50
Aroclor 5460	(ND)   ND	83.3	(89.6)   86.7	(108)   104	83.3	(88.2)   87.6	(106)   105	(2)   1	50-150	50

=====

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	13.33	11.32   (11.62)	84.9   (87.2)	13.33	11.63   (11.94)	87.3   (89.5)	45-120
Tetrachloro-m-xylene	13.33	(8.822)   8.427	(66.2)   63.2	13.33	(10.50)   10.04	(78.8)   75.3	10-160

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 3550B/8082

MATRIX: SOIL % MOISTURE: 12.4  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: SL-705-SA5C-SB-9.0-10.0  
LAB SAMP ID: E204-22 E204-22M E204-22S  
LAB FILE ID: SF05040A SF05019A SF05020A  
DATE EXTRACTED: 06/01/1215:10 06/01/1215:10 06/01/1215:10 DATE COLLECTED: 05/24/12  
DATE ANALYZED: 06/06/1207:44 06/05/1219:46 06/05/1220:20 DATE RECEIVED: 05/24/12  
PREP. BATCH: CPF001S CPF001S CPF001S  
CALIB. REF: SF05024A SF05006A SF05006A

ACCESSION:

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Aroclor 1016	(ND)   ND	190	(179)   149	(94)   78	190	(186)   155	(98)   81	(4)   4	20-160	50
Aroclor 1260	(ND)   ND	190	(164)   162	(86)   85	190	(183)   172	(96)   90	(11)   6	20-160	50
Aroclor 5460	(ND)   ND	95.1	(92.6)   90.1	(97)   95	95.1	(102)   98.7	(107)   104	(10)   9	20-160	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT ( % )
Decachlorobiphenyl	15.22	12.10   (12.60)	79.5   (82.8)	15.22	12.22   (12.85)	80.3   (84.4)	45-120
Tetrachloro-m-xylene	15.22	(10.97)   10.47	(72.1)   68.8	15.22	(11.01)   10.52	(72.4)   69.1	10-160

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.    : 12E204                           Date Extracted: 06/05/12 11:00
Sample ID   : EB-052412                       Date Analyzed: 06/06/12 17:24
Lab Samp ID: E204-01                          Dilution Factor: 1
Lab File ID: 98F03054                        Matrix          : WATER
Ext Btch ID: IMF009W                         % Moisture     : NA
Calib. Ref.: 98F03049                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	0.00549J	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	0.000226J	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

METHOD 6020  
METALS BY ICP-MS

```

=====
Client       : CDM                               Date Collected: NA
Project      : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.     : 12E204                           Date Extracted: 06/05/12 11:00
Sample ID   : MBLK1W                           Date Analyzed: 06/06/12 17:10
Lab Samp ID : IMF009WB                         Dilution Factor: 1
Lab File ID : 98F03051                        Matrix          : WATER
Ext Btch ID : IMF009W                          % Moisture     : NA
Calib. Ref. : 98F03049                        Instrument ID   : T-I98
=====

```

PARAMETERS	RESULTS (mg/L)	RL (mg/L)	MDL (mg/L)
Aluminum	ND	0.100	0.0200
Antimony	ND	0.00100	0.000500
Arsenic	ND	0.00100	0.000200
Barium	ND	0.00100	0.000500
Beryllium	ND	0.00100	0.000100
Boron	ND	0.0100	0.00500
Cadmium	ND	0.00100	0.000200
Calcium	ND	0.100	0.0250
Chromium	ND	0.00100	0.000200
Cobalt	ND	0.00100	0.000200
Copper	ND	0.00100	0.000500
Iron	ND	0.100	0.0100
Lead	ND	0.00100	0.000100
Magnesium	ND	0.100	0.0100
Manganese	ND	0.00100	0.000200
Molybdenum	ND	0.00200	0.000500
Nickel	ND	0.00100	0.000200
Potassium	ND	0.100	0.0200
Selenium	ND	0.00100	0.000300
Silver	ND	0.00100	0.000200
Sodium	ND	0.100	0.0500
Strontium	ND	0.00200	0.00100
Thallium	ND	0.00100	0.000200
Tin	ND	0.00100	0.000200
Titanium	ND	0.00200	0.000500
Vanadium	ND	0.00100	0.000500
Zinc	ND	0.0200	0.0100
Lithium	ND	0.00200	0.000500
Phosphorus	ND	0.0500	0.0250
Zirconium	ND	0.00500	0.00200

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E204  
METHOD: METHOD 6020

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: IMF009WB IMF009WL IMF009WC  
LAB FILE ID: 98F03051 98F03052 98F03053  
DATIME EXTRACTD: 06/05/1211:00 06/05/1211:00 06/05/1211:00 DATE COLLECTED: NA  
DATIME ANALYZD: 06/06/1217:10 06/06/1217:15 06/06/1217:19 DATE RECEIVED: 06/05/12  
PREP. BATCH: IMF009W IMF009W IMF009W  
CALIB. REF: 98F03049 98F03049 98F03049

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2.50	2.68	107	2.50	2.61	104	3	80-120	20
Antimony	ND	0.0250	0.0257	103	0.0250	0.0249	100	3	80-120	20
Arsenic	ND	0.0250	0.0257	103	0.0250	0.0252	101	2	80-120	20
Barium	ND	0.0250	0.0256	102	0.0250	0.0251	100	2	80-120	20
Beryllium	ND	0.0250	0.0247	99	0.0250	0.0246	98	1	80-120	20
Boron	ND	0.0250	0.0256	102	0.0250	0.0254	102	1	80-120	20
Cadmium	ND	0.0250	0.0251	101	0.0250	0.0245	98	2	80-120	20
Calcium	ND	2.50	2.73	109	2.50	2.72	109	0	80-120	20
Chromium	ND	0.0250	0.0245	98	0.0250	0.0240	96	2	80-120	20
Cobalt	ND	0.0250	0.0251	100	0.0250	0.0243	97	3	80-120	20
Copper	ND	0.0250	0.0243	97	0.0250	0.0240	96	1	80-120	20
Iron	ND	2.50	2.55	102	2.50	2.55	102	0	80-120	20
Lead	ND	0.0250	0.0245	98	0.0250	0.0241	97	2	80-120	20
Magnesium	ND	2.50	2.72	109	2.50	2.62	105	4	80-120	20
Manganese	ND	0.0250	0.0257	103	0.0250	0.0246	98	5	80-120	20
Molybdenum	ND	0.0250	0.0251	100	0.0250	0.0245	98	2	80-120	20
Nickel	ND	0.0250	0.0245	98	0.0250	0.0239	96	2	80-120	20
Potassium	ND	2.50	2.66	107	2.50	2.63	105	1	80-120	20
Selenium	ND	0.0250	0.0252	101	0.0250	0.0244	98	3	80-120	20
Silver	ND	0.0250	0.0257	103	0.0250	0.0249	100	3	80-120	20
Sodium	ND	2.50	2.65	106	2.50	2.62	105	1	80-120	20
Strontium	ND	0.0250	0.0255	102	0.0250	0.0250	100	2	80-120	20
Thallium	ND	0.0250	0.0251	101	0.0250	0.0250	100	1	80-120	20
Tin	ND	0.0250	0.0258	103	0.0250	0.0252	101	2	80-120	20
Titanium	ND	0.0250	0.0264	106	0.0250	0.0255	102	4	80-120	20
Vanadium	ND	0.0250	0.0247	99	0.0250	0.0242	97	2	80-120	20
Zinc	ND	0.0500	0.0504	101	0.0500	0.0498	100	1	80-120	20
Lithium	ND	0.0250	0.0246	98	0.0250	0.0245	98	0	80-120	20
Phosphorus	ND	0.250	0.289	115	0.250	0.261	104	10	80-120	20
Zirconium	ND	0.0250	0.0251	101	0.0250	0.0246	98	2	80-120	20

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project    : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.    : 12E204                           Date Extracted: 06/05/12 15:15
Sample ID  : SL-704-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 15:25
Lab Samp ID: E204-02                           Dilution Factor: 0.948
Lab File ID: 98F03028                         Matrix          : SOIL
Ext Btch ID: IMF010S                          % Moisture     : 10.6
Calib. Ref.: 98F03018                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	17700	106	12.7
Antimony	0.227J	0.530	0.106
Arsenic	4.36	0.530	0.212
Barium	106	0.530	0.212
Beryllium	0.586	0.530	0.0530
Boron	ND	5.30	2.65
Cadmium	0.118J	0.530	0.0530
Calcium	2530	21.2	10.6
Chromium	18.5	0.530	0.212
Cobalt	4.76	0.530	0.0530
Copper	7.82	0.530	0.212
Iron	19900	106	10.6
Lead	5.57	0.530	0.106
Magnesium	4050	10.6	5.30
Manganese	164	0.530	0.265
Molybdenum	0.671	0.530	0.0530
Nickel	9.14	0.530	0.212
Potassium	1830	106	31.8
Selenium	ND	0.530	0.212
Silver	ND	0.530	0.0530
Sodium	194	106	53.0
Strontium	23.3	0.530	0.265
Thallium	0.209J	0.424	0.0530
Tin	ND	10.6	5.30
Titanium	991	1.06	0.530
Vanadium	38.1	0.530	0.0530
Zinc	39.2	5.30	1.59
Lithium	17.9	2.12	1.06
Phosphorus	172	12.7	6.36
Zirconium	ND	5.30	2.65

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project    : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.    : 12E204                           Date Extracted: 06/05/12 15:15
Sample ID  : SL-704-SA5C-SB-4.0-5.0          Date Analyzed: 06/06/12 15:43
Lab Samp ID: E204-03                           Dilution Factor: 0.935
Lab File ID: 98F03032                         Matrix          : SOIL
Ext Btch ID: IMF010S                           % Moisture     : 14.0
Calib. Ref.: 98F03030                         Instrument ID  : T-I98
=====
  
```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	23800	109	13.0
Antimony	0.298J	0.544	0.109
Arsenic	9.98	0.544	0.217
Barium	158	0.544	0.217
Beryllium	1.20	0.544	0.0544
Boron	ND	5.44	2.72
Cadmium	0.173J	0.544	0.0544
Calcium	4640	21.7	10.9
Chromium	29.3	0.544	0.217
Cobalt	8.88	0.544	0.0544
Copper	16.5	0.544	0.217
Iron	33700	109	10.9
Lead	12.4	0.544	0.109
Magnesium	7280	10.9	5.44
Manganese	242	0.544	0.272
Molybdenum	1.05	0.544	0.0544
Nickel	16.2	0.544	0.217
Potassium	2150	109	32.6
Selenium	ND	0.544	0.217
Silver	ND	0.544	0.0544
Sodium	263	109	54.4
Strontium	40.8	0.544	0.272
Thallium	0.345J	0.435	0.0544
Tin	ND	10.9	5.44
Titanium	1080	1.09	0.544
Vanadium	53.0	0.544	0.0544
Zinc	78.3	5.44	1.63
Lithium	37.7	2.17	1.09
Phosphorus	208	13.0	6.52
Zirconium	ND	5.44	2.72

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.    : 12E204                           Date Extracted: 06/05/12 15:15
Sample ID:  SL-704-SA5C-SB-9.0-10.0          Date Analyzed: 06/06/12 15:48
Lab Samp ID: E204-05                          Dilution Factor: 0.976
Lab File ID: 98F03033                         Matrix          : SOIL
Ext Btch ID: IMF010S                          % Moisture     : 10.7
Calib. Ref.: 98F03030                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16600	109	13.1
Antimony	0.264J	0.546	0.109
Arsenic	10.2	0.546	0.219
Barium	115	0.546	0.219
Beryllium	0.939	0.546	0.0546
Boron	ND	5.46	2.73
Cadmium	0.260J	0.546	0.0546
Calcium	5830	21.9	10.9
Chromium	25.0	0.546	0.219
Cobalt	8.09	0.546	0.0546
Copper	16.6	0.546	0.219
Iron	28600	109	10.9
Lead	9.27	0.546	0.109
Magnesium	6500	10.9	5.46
Manganese	294	0.546	0.273
Molybdenum	0.382J	0.546	0.0546
Nickel	18.5	0.546	0.219
Potassium	2330	109	32.8
Selenium	ND	0.546	0.219
Silver	0.103J	0.546	0.0546
Sodium	164	109	54.6
Strontium	28.6	0.546	0.273
Thallium	0.300J	0.437	0.0546
Tin	ND	10.9	5.46
Titanium	914	1.09	0.546
Vanadium	40.4	0.546	0.0546
Zinc	77.5	5.46	1.64
Lithium	36.2	2.19	1.09
Phosphorus	638	13.1	6.56
Zirconium	ND	5.46	2.73

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project    : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.    : 12E204                           Date Extracted: 06/05/12 15:15
Sample ID  : SL-694-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 15:52
Lab Samp ID: E204-07                           Dilution Factor: 0.952
Lab File ID: 98F03034                          Matrix          : SOIL
Ext Btch ID: IMF010S                            % Moisture     : 14.4
Calib. Ref.: 98F03030                          Instrument ID  : T-198
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	24600	111	13.3
Antimony	0.308J	0.556	0.111
Arsenic	7.27	0.556	0.222
Barium	136	0.556	0.222
Beryllium	1.09	0.556	0.0556
Boron	ND	5.56	2.78
Cadmium	0.147J	0.556	0.0556
Calcium	3120	22.2	11.1
Chromium	25.0	0.556	0.222
Cobalt	4.45	0.556	0.0556
Copper	7.89	0.556	0.222
Iron	28800	111	11.1
Lead	7.65	0.556	0.111
Magnesium	4990	11.1	5.56
Manganese	129	0.556	0.278
Molybdenum	0.651	0.556	0.0556
Nickel	11.5	0.556	0.222
Potassium	1750	111	33.4
Selenium	ND	0.556	0.222
Silver	ND	0.556	0.0556
Sodium	517	111	55.6
Strontium	34.6	0.556	0.278
Thallium	0.282J	0.445	0.0556
Tin	ND	11.1	5.56
Titanium	1090	1.11	0.556
Vanadium	50.7	0.556	0.0556
Zinc	50.2	5.56	1.67
Lithium	24.3	2.22	1.11
Phosphorus	110	13.3	6.67
Zirconium	ND	5.56	2.78

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.    : 12E204                           Date Extracted: 06/05/12 15:15
Sample ID:  SL-694-SA5C-SB-4.0-5.0           Date Analyzed: 06/06/12 15:57
Lab Samp ID: E204-09                          Dilution Factor: 0.980
Lab File ID: 98F03035                         Matrix          : SOIL
Ext Btch ID: IMF010S                          % Moisture     : 9.9
Calib. Ref.: 98F03030                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	16300	109	13.1
Antimony	0.221J	0.544	0.109
Arsenic	4.84	0.544	0.218
Barium	174	0.544	0.218
Beryllium	0.660	0.544	0.0544
Boron	ND	5.44	2.72
Cadmium	0.138J	0.544	0.0544
Calcium	2610	21.8	10.9
Chromium	19.3	0.544	0.218
Cobalt	7.02	0.544	0.0544
Copper	7.45	0.544	0.218
Iron	20500	109	10.9
Lead	5.20	0.544	0.109
Magnesium	4630	10.9	5.44
Manganese	211	0.544	0.272
Molybdenum	0.517J	0.544	0.0544
Nickel	10.3	0.544	0.218
Potassium	1770	109	32.6
Selenium	ND	0.544	0.218
Silver	ND	0.544	0.0544
Sodium	663	109	54.4
Strontium	31.3	0.544	0.272
Thallium	0.260J	0.435	0.0544
Tin	ND	10.9	5.44
Titanium	1070	1.09	0.544
Vanadium	36.5	0.544	0.0544
Zinc	42.5	5.44	1.63
Lithium	21.4	2.18	1.09
Phosphorus	113	13.1	6.53
Zirconium	ND	5.44	2.72

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.     : 12E204                            Date Extracted: 06/05/12 15:15
Sample ID   : SL-694-SA5C-SB-9.0-10.0         Date Analyzed: 06/06/12 16:01
Lab Samp ID : E204-11                           Dilution Factor: 1.00
Lab File ID : 98F03036                          Matrix          : SOIL
Ext Btch ID : IMF010S                            % Moisture     : 12.8
Calib. Ref. : 98F03030                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	18500	115	13.8
Antimony	0.232J	0.573	0.115
Arsenic	6.09	0.573	0.229
Barium	90.5	0.573	0.229
Beryllium	0.792	0.573	0.0573
Boron	ND	5.73	2.87
Cadmium	0.210J	0.573	0.0573
Calcium	3220	22.9	11.5
Chromium	23.2	0.573	0.229
Cobalt	6.73	0.573	0.0573
Copper	11.0	0.573	0.229
Iron	24500	115	11.5
Lead	6.89	0.573	0.115
Magnesium	5290	11.5	5.73
Manganese	280	0.573	0.287
Molybdenum	0.673	0.573	0.0573
Nickel	14.7	0.573	0.229
Potassium	3010	115	34.4
Selenium	ND	0.573	0.229
Silver	0.112J	0.573	0.0573
Sodium	437	115	57.3
Strontium	29.6	0.573	0.287
Thallium	0.287J	0.459	0.0573
Tin	ND	11.5	5.73
Titanium	1020	1.15	0.573
Vanadium	44.6	0.573	0.0573
Zinc	55.7	5.73	1.72
Lithium	29.5	2.29	1.15
Phosphorus	224	13.8	6.88
Zirconium	ND	5.73	2.87

METHOD 6020  
METALS BY ICP-MS

```

=====
Client      : CDM                               Date Collected: 05/24/12
Project    : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.    : 12E204                           Date Extracted: 06/05/12 15:15
Sample ID  : SL-672-SA5C-SB-0.0-0.5          Date Analyzed: 06/06/12 16:06
Lab Samp ID: E204-12                           Dilution Factor: 0.995
Lab File ID: 98F03037                          Matrix          : SOIL
Ext Btch ID: IMF010S                           % Moisture     : 10.7
Calib. Ref.: 98F03030                          Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	21200	111	13.4
Antimony	0.224J	0.557	0.111
Arsenic	4.45	0.557	0.223
Barium	83.7	0.557	0.223
Beryllium	0.583	0.557	0.0557
Boron	ND	5.57	2.79
Cadmium	0.110J	0.557	0.0557
Calcium	2790	22.3	11.1
Chromium	21.3	0.557	0.223
Cobalt	3.29	0.557	0.0557
Copper	6.22	0.557	0.223
Iron	21300	111	11.1
Lead	6.37	0.557	0.111
Magnesium	3940	11.1	5.57
Manganese	105	0.557	0.279
Molybdenum	0.381J	0.557	0.0557
Nickel	9.19	0.557	0.223
Potassium	1120	111	33.4
Selenium	ND	0.557	0.223
Silver	ND	0.557	0.0557
Sodium	524	111	55.7
Strontium	26.1	0.557	0.279
Thallium	0.223J	0.446	0.0557
Tin	ND	11.1	5.57
Titanium	837	1.11	0.557
Vanadium	35.4	0.557	0.0557
Zinc	74.5	5.57	1.67
Lithium	20.3	2.23	1.11
Phosphorus	75.8	13.4	6.69
Zirconium	ND	5.57	2.79

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.    : 12E204                           Date Extracted: 06/05/12 15:15
Sample ID   : SL-672-SA5C-SB-4.0-5.0         Date Analyzed: 06/06/12 16:10
Lab Samp ID: E204-14                          Dilution Factor: 0.971
Lab File ID: 98F03038                         Matrix          : SOIL
Ext Btch ID: IMF010S                          % Moisture     : 15.9
Calib. Ref.: 98F03030                         Instrument ID  : T-I98
=====

```

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	28500	115	13.9
Antimony	0.177J	0.577	0.115
Arsenic	6.93	0.577	0.231
Barium	125	0.577	0.231
Beryllium	1.58	0.577	0.0577
Boron	ND	5.77	2.89
Cadmium	0.203J	0.577	0.0577
Calcium	6660	23.1	11.5
Chromium	44.5	0.577	0.231
Cobalt	7.63	0.577	0.0577
Copper	27.0	0.577	0.231
Iron	37800	115	11.5
Lead	8.43	0.577	0.115
Magnesium	8130	11.5	5.77
Manganese	163	0.577	0.289
Molybdenum	0.361J	0.577	0.0577
Nickel	21.2	0.577	0.231
Potassium	2570	115	34.6
Selenium	ND	0.577	0.231
Silver	0.0604J	0.577	0.0577
Sodium	1480	115	57.7
Strontium	60.7	0.577	0.289
Thallium	0.376J	0.462	0.0577
Tin	ND	11.5	5.77
Titanium	802	1.15	0.577
Vanadium	51.8	0.577	0.0577
Zinc	80.2	5.77	1.73
Lithium	38.2	2.31	1.15
Phosphorus	427	13.9	6.93
Zirconium	ND	5.77	2.89

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.    : 12E204                           Date Extracted: 06/05/12 15:15
Sample ID:  SL-677-SA5C-SB-0.0-0.5           Date Analyzed: 06/06/12 16:15
Lab Samp ID: E204-16                          Dilution Factor: 0.990
Lab File ID: 98F03039                         Matrix          : SOIL
Ext Btch ID: IMF010S                          % Moisture     : 14.4
Calib. Ref.: 98F03030                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	31200	116	13.9
Antimony	0.331J	0.578	0.116
Arsenic	6.66	0.578	0.231
Barium	131	0.578	0.231
Beryllium	1.13	0.578	0.0578
Boron	ND	5.78	2.89
Cadmium	0.156J	0.578	0.0578
Calcium	2630	23.1	11.6
Chromium	25.0	0.578	0.231
Cobalt	4.22	0.578	0.0578
Copper	7.59	0.578	0.231
Iron	26700	116	11.6
Lead	7.84	0.578	0.116
Magnesium	5670	11.6	5.78
Manganese	122	0.578	0.289
Molybdenum	0.886	0.578	0.0578
Nickel	12.7	0.578	0.231
Potassium	1650	116	34.7
Selenium	ND	0.578	0.231
Silver	0.113J	0.578	0.0578
Sodium	580	116	57.8
Strontium	29.4	0.578	0.289
Thallium	0.274J	0.463	0.0578
Tin	ND	11.6	5.78
Titanium	1160	1.16	0.578
Vanadium	49.5	0.578	0.0578
Zinc	44.5	5.78	1.73
Lithium	28.2	2.31	1.16
Phosphorus	111	13.9	6.94
Zirconium	ND	5.78	2.89

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.    : 12E204                           Date Extracted: 06/05/12 15:15
Sample ID   : SL-677-SA5C-SB-4.0-5.0         Date Analyzed: 06/06/12 16:20
Lab Samp ID: E204-17                          Dilution Factor: 0.957
Lab File ID: 98F03040                        Matrix          : SOIL
Ext Btch ID: IMF010S                         % Moisture     : 12.4
Calib. Ref.: 98F03030                       Instrument ID  : T-I98
=====

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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	15100	109	13.1
Antimony	0.177J	0.546	0.109
Arsenic	4.25	0.546	0.218
Barium	64.6	0.546	0.218
Beryllium	0.616	0.546	0.0546
Boron	ND	5.46	2.73
Cadmium	0.137J	0.546	0.0546
Calcium	1570	21.8	10.9
Chromium	18.0	0.546	0.218
Cobalt	4.52	0.546	0.0546
Copper	5.48	0.546	0.218
Iron	18000	109	10.9
Lead	4.68	0.546	0.109
Magnesium	3900	10.9	5.46
Manganese	101	0.546	0.273
Molybdenum	0.504J	0.546	0.0546
Nickel	6.81	0.546	0.218
Potassium	1680	109	32.8
Selenium	ND	0.546	0.218
Silver	ND	0.546	0.0546
Sodium	464	109	54.6
Strontium	16.3	0.546	0.273
Thallium	0.246J	0.437	0.0546
Tin	ND	10.9	5.46
Titanium	997	1.09	0.546
Vanadium	35.4	0.546	0.0546
Zinc	32.7	5.46	1.64
Lithium	13.1	2.18	1.09
Phosphorus	109	13.1	6.55
Zirconium	ND	5.46	2.73

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: 05/24/12
Project     : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.    : 12E204                           Date Extracted: 06/05/12 15:15
Sample ID:  SL-705-SA5C-SB-0.0-0.5           Date Analyzed: 06/06/12 16:38
Lab Samp ID: E204-19                          Dilution Factor: 0.962
Lab File ID: 98F03044                         Matrix          : SOIL
Ext Btch ID: IMF010S                          % Moisture     : 11.7
Calib. Ref.: 98F03042                         Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20800	109	13.1
Antimony	0.260J	0.545	0.109
Arsenic	4.86	0.545	0.218
Barium	89.7	0.545	0.218
Beryllium	0.779	0.545	0.0545
Boron	ND	5.45	2.72
Cadmium	0.117J	0.545	0.0545
Calcium	1850	21.8	10.9
Chromium	18.7	0.545	0.218
Cobalt	7.38	0.545	0.0545
Copper	5.67	0.545	0.218
Iron	19900	109	10.9
Lead	5.79	0.545	0.109
Magnesium	3450	10.9	5.45
Manganese	150	0.545	0.272
Molybdenum	0.971	0.545	0.0545
Nickel	8.95	0.545	0.218
Potassium	1310	109	32.7
Selenium	ND	0.545	0.218
Silver	0.0642J	0.545	0.0545
Sodium	270	109	54.5
Strontium	21.1	0.545	0.272
Thallium	0.210J	0.436	0.0545
Tin	ND	10.9	5.45
Titanium	998	1.09	0.545
Vanadium	38.9	0.545	0.0545
Zinc	31.8	5.45	1.63
Lithium	17.3	2.18	1.09
Phosphorus	137	13.1	6.54
Zirconium	ND	5.45	2.72

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.     : 12E204                            Date Extracted: 06/05/12 15:15
Sample ID   : SL-705-SA5C-SB-4.0-5.0           Date Analyzed: 06/06/12 16:43
Lab Samp ID : E204-20                           Dilution Factor: 0.952
Lab File ID : 98F03045                          Matrix          : SOIL
Ext Btch ID : IMF010S                            % Moisture     : 11.4
Calib. Ref. : 98F03042                          Instrument ID  : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20000	107	12.9
Antimony	0.224J	0.537	0.107
Arsenic	5.18	0.537	0.215
Barium	96.2	0.537	0.215
Beryllium	1.10	0.537	0.0537
Boron	ND	5.37	2.69
Cadmium	0.173J	0.537	0.0537
Calcium	3000	21.5	10.7
Chromium	20.3	0.537	0.215
Cobalt	11.7	0.537	0.0537
Copper	6.88	0.537	0.215
Iron	21400	107	10.7
Lead	5.38	0.537	0.107
Magnesium	5270	10.7	5.37
Manganese	179	0.537	0.269
Molybdenum	0.630	0.537	0.0537
Nickel	11.5	0.537	0.215
Potassium	1940	107	32.2
Selenium	ND	0.537	0.215
Silver	ND	0.537	0.0537
Sodium	469	107	53.7
Strontium	28.0	0.537	0.269
Thallium	0.256J	0.430	0.0537
Tin	ND	10.7	5.37
Titanium	1140	1.07	0.537
Vanadium	37.8	0.537	0.0537
Zinc	44.9	5.37	1.61
Lithium	24.4	2.15	1.07
Phosphorus	134	12.9	6.45
Zirconium	ND	5.37	2.69

METHOD 6020  
METALS BY ICP-MS

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=====
Client       : CDM                               Date Collected: 05/24/12
Project      : SSFL PHASE 3                     Date Received: 05/24/12
SDG NO.     : 12E204                            Date Extracted: 06/05/12 15:15
Sample ID   : SL-705-SA5C-SB-9.0-10.0         Date Analyzed: 06/06/12 15:15
Lab Samp ID : E204-22                           Dilution Factor: 0.962
Lab File ID : 98F03026                         Matrix          : SOIL
Ext Btch ID : IMF010S                           % Moisture     : 12.4
Calib. Ref. : 98F03018                         Instrument ID   : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	20000	110	13.2
Antimony	0.253J	0.549	0.110
Arsenic	5.62	0.549	0.220
Barium	88.0	0.549	0.220
Beryllium	0.799	0.549	0.0549
Boron	ND	5.49	2.75
Cadmium	0.129J	0.549	0.0549
Calcium	3090	22.0	11.0
Chromium	24.7	0.549	0.220
Cobalt	5.56	0.549	0.0549
Copper	9.36	0.549	0.220
Iron	23600	110	11.0
Lead	6.08	0.549	0.110
Magnesium	5080	11.0	5.49
Manganese	163	0.549	0.275
Molybdenum	0.661	0.549	0.0549
Nickel	11.7	0.549	0.220
Potassium	1500	110	32.9
Selenium	ND	0.549	0.220
Silver	0.0756J	0.549	0.0549
Sodium	480	110	54.9
Strontium	28.0	0.549	0.275
Thallium	0.251J	0.439	0.0549
Tin	ND	11.0	5.49
Titanium	913	1.10	0.549
Vanadium	41.2	0.549	0.0549
Zinc	44.0	5.49	1.65
Lithium	30.0	2.20	1.10
Phosphorus	138	13.2	6.59
Zirconium	2.93J	5.49	2.75

METHOD 6020  
METALS BY ICP-MS

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=====
Client      : CDM                               Date Collected: NA
Project    : SSFL PHASE 3                     Date Received: 06/05/12
SDG NO.    : 12E204                           Date Extracted: 06/05/12 15:15
Sample ID  : MBLK1S                            Date Analyzed: 06/06/12 14:48
Lab Samp ID: IMF010SB                         Dilution Factor: 1
Lab File ID: 98F03020                        Matrix          : SOIL
Ext Btch ID: IMF010S                          % Moisture     : NA
Calib. Ref.: 98F03018                        Instrument ID   : T-I98
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PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
Aluminum	ND	100	12.0
Antimony	ND	0.500	0.100
Arsenic	ND	0.500	0.200
Barium	ND	0.500	0.200
Beryllium	ND	0.500	0.0500
Boron	ND	5.00	2.50
Cadmium	ND	0.500	0.0500
Calcium	ND	20.0	10.0
Chromium	ND	0.500	0.200
Cobalt	ND	0.500	0.0500
Copper	ND	0.500	0.200
Iron	ND	100	10.0
Lead	ND	0.500	0.100
Magnesium	ND	10.0	5.00
Manganese	ND	0.500	0.250
Molybdenum	ND	0.500	0.0500
Nickel	ND	0.500	0.200
Potassium	ND	100	30.0
Selenium	ND	0.500	0.200
Silver	ND	0.500	0.0500
Sodium	ND	100	50.0
Strontium	ND	0.500	0.250
Thallium	ND	0.400	0.0500
Tin	ND	10.0	5.00
Titanium	ND	1.00	0.500
Vanadium	ND	0.500	0.0500
Zinc	ND	5.00	1.50
Lithium	ND	2.00	1.00
Phosphorus	ND	12.0	6.00
Zirconium	ND	5.00	2.50

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E204  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: IMF010SB IMF010SL IMF010SC  
LAB FILE ID: 98F03020 98F03021 98F03022  
DATIME EXTRACTD: 06/05/1215:15 06/05/1215:15 06/05/1215:15 DATE COLLECTED: NA  
DATIME ANALYZD: 06/06/1214:48 06/06/1214:53 06/06/1214:57 DATE RECEIVED: 06/05/12  
PREP. BATCH: IMF010S IMF010S IMF010S  
CALIB. REF: 98F03018 98F03018 98F03018

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	ND	2500	2520	101	2500	2550	102	1	80-120	20
Antimony	ND	25.0	25.5	102	25.0	26.5	106	4	80-120	20
Arsenic	ND	25.0	24.9	100	25.0	25.7	103	3	80-120	20
Barium	ND	25.0	25.2	101	25.0	25.9	104	3	80-120	20
Beryllium	ND	25.0	25.0	100	25.0	25.4	102	1	80-120	20
Boron	ND	25.0	25.4	102	25.0	26.0	104	2	80-120	20
Cadmium	ND	25.0	24.7	99	25.0	25.4	102	3	80-120	20
Calcium	ND	2500	2630	105	2500	2690	108	2	80-120	20
Chromium	ND	25.0	24.9	100	25.0	25.7	103	3	80-120	20
Cobalt	ND	25.0	24.9	100	25.0	25.6	103	3	80-120	20
Copper	ND	25.0	24.9	99	25.0	25.6	102	3	80-120	20
Iron	ND	2500	2580	103	2500	2660	106	3	80-120	20
Lead	ND	25.0	24.8	99	25.0	25.8	103	4	80-120	20
Magnesium	ND	2500	2540	101	2500	2600	104	2	80-120	20
Manganese	ND	25.0	25.2	101	25.0	26.1	104	3	80-120	20
Molybdenum	ND	25.0	24.7	99	25.0	25.8	103	4	80-120	20
Nickel	ND	25.0	24.9	100	25.0	25.5	102	2	80-120	20
Potassium	ND	2500	2600	104	2500	2690	108	4	80-120	20
Selenium	ND	25.0	24.6	98	25.0	25.6	102	4	80-120	20
Silver	ND	25.0	25.1	100	25.0	25.8	103	3	80-120	20
Sodium	ND	2500	2550	102	2500	2600	104	2	80-120	20
Strontium	ND	25.0	25.3	101	25.0	25.9	103	2	80-120	20
Thallium	ND	25.0	25.2	101	25.0	25.8	103	2	80-120	20
Tin	ND	25.0	27.5	110	25.0	28.4	114	3	80-120	20
Titanium	ND	25.0	25.3	101	25.0	26.0	104	2	80-120	20
Vanadium	ND	25.0	25.1	101	25.0	25.8	103	3	80-120	20
Zinc	ND	50.0	48.3	97	50.0	49.9	100	3	80-120	20
Lithium	ND	25.0	25.1	101	25.0	25.8	103	3	80-120	20
Phosphorus	ND	250	240	96	250	244	97	2	80-120	20
Zirconium	ND	25.0	24.9	100	25.0	25.2	101	1	80-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E204  
METHOD: METHOD 6020

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MATRIX: SOIL % MOISTURE: 12.4  
DILTN FACTR: 0.962 0.971 0.971  
SAMPLE ID: SL-705-SA5C-SB-9.0-10.0  
CONTROL NO.: E204-22 E204-22M E204-22S  
LAB FILE ID: 98F03026 98F03023 98F03024  
DATIME EXTRACTD: 06/05/1215:15 06/05/1215:15 06/05/1215:15 DATE COLLECTED: 05/24/12  
DATIME ANALYZD: 06/06/1215:15 06/06/1215:02 06/06/1215:06 DATE RECEIVED: 05/24/12  
PREP. BATCH: IMF010S IMF010S IMF010S  
CALIB. REF: 98F03018 98F03018 98F03018

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Aluminum	20000	2770	24100	146*	2770	22500	89	7	75-125	20
Antimony	0.253J	27.7	24.4	87	27.7	23.3	83	5	75-125	20
Arsenic	5.62	27.7	32.1	96	27.7	31.6	94	2	75-125	20
Barium	88.0	27.7	121	118	27.7	112	86	8	75-125	20
Beryllium	0.799	27.7	29.3	103	27.7	27.2	95	7	75-125	20
Boron	ND	27.7	29.0	105	27.7	26.8	97	8	75-125	20
Cadmium	0.129J	27.7	28.0	101	27.7	26.6	96	5	75-125	20
Calcium	3090	2770	5870	100	2770	5530	88	6	75-125	20
Chromium	24.7	27.7	51.3	96	27.7	48.2	85	6	75-125	20
Cobalt	5.56	27.7	30.1	88	27.7	29.2	85	3	75-125	20
Copper	9.36	27.7	33.6	87	27.7	32.4	83	4	75-125	20
Iron	23600	2770	27100	127*	2770	26000	86	4	75-125	20
Lead	6.08	27.7	33.6	99	27.7	32.3	95	4	75-125	20
Magnesium	5080	2770	7800	98	2770	7490	87	4	75-125	20
Manganese	163	27.7	175	42*	27.7	178	54*	2	75-125	20
Molybdenum	0.661	27.7	28.6	101	27.7	27.3	96	5	75-125	20
Nickel	11.7	27.7	36.4	89	27.7	35.1	84	4	75-125	20
Potassium	1500	2770	4270	100	2770	4150	96	3	75-125	20
Selenium	ND	27.7	27.1	98	27.7	26.1	94	4	75-125	20
Silver	0.0756J	27.7	28.4	102	27.7	26.7	96	6	75-125	20
Sodium	480	2770	3010	91	2770	2920	88	3	75-125	20
Strontium	28.0	27.7	56.3	102	27.7	52.9	90	6	75-125	20
Thallium	0.251J	27.7	28.0	100	27.7	26.8	96	4	75-125	20
Tin	ND	27.7	32.3	117	27.7	30.9	112	4	75-125	20
Titanium	913	27.7	975	227*	27.7	928	57*	5	75-125	20
Vanadium	41.2	27.7	67.7	96	27.7	66.8	92	1	75-125	20
Zinc	44.0	55.4	97.9	97	55.4	93.6	89	4	75-125	20
Lithium	30.0	27.7	62.8	119	27.7	58.5	103	7	75-125	20
Phosphorus	138	277	396	93	277	391	91	1	75-125	20
Zirconium	2.93J	27.7	27.2	87	27.7	26.3	84	3	75-125	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E204  
METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 12.4  
DILTN FACTR: 0.962 0.962  
SAMPLE ID: SL-705-SA5C-SB-9.0-10.0  
CONTROL NO.: E204-22 E204-22A  
LAB FILE ID: 98F03026 98F03025  
DATIME EXTRACTD: 06/05/1215:15 06/05/1215:15 DATE COLLECTED: 05/24/12  
DATIME ANALYZD: 06/06/1215:15 06/06/1215:11 DATE RECEIVED: 05/24/12  
PREP. BATCH: IMF010S IMF010S  
CALIB. REF: 98F03018 98F03018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Aluminum	20000	2750	22800	102	75-125
Antimony	0.253J	27.5	27.5	99	75-125
Arsenic	5.62	27.5	31.3	93	75-125
Barium	88.0	27.5	116	103	75-125
Beryllium	0.799	27.5	27.0	95	75-125
Boron	ND	27.5	27.9	102	75-125
Cadmium	0.129J	27.5	26.5	96	75-125
Calcium	3090	2750	5770	98	75-125
Chromium	24.7	27.5	48.1	85	75-125
Cobalt	5.56	27.5	28.9	85	75-125
Copper	9.36	27.5	32.1	83	75-125
Iron	23600	2750	26300	96	75-125
Lead	6.08	27.5	32.3	96	75-125
Magnesium	5080	2750	7730	96	75-125
Manganese	163	27.5	185	78	75-125
Molybdenum	0.661	27.5	27.7	99	75-125
Nickel	11.7	27.5	34.7	84	75-125
Potassium	1500	2750	4260	101	75-125
Selenium	ND	27.5	26.0	95	75-125
Silver	0.0756J	27.5	26.7	97	75-125
Sodium	480	2750	2960	90	75-125
Strontium	28.0	27.5	54.5	97	75-125
Thallium	0.251J	27.5	26.7	96	75-125
Tin	ND	27.5	30.7	112	75-125
Titanium	913	27.5	944	116	75-125
Vanadium	41.2	27.5	64.9	86	75-125
Zinc	44.0	54.9	93.5	90	75-125
Lithium	30.0	27.5	58.9	105	75-125
Phosphorus	138	275	406	98	75-125
Zirconium	2.93J	27.5	29.2	96	75-125

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E204  
 METHOD: METHOD 6020

=====

MATRIX: SOIL % MOISTURE: 12.4  
 DILUTION FACTOR: 0.962 4.81  
 SAMPLE ID: SL-705-SA5C-SB SL-705-SA5C-SB  
 EMAX SAMP ID: E204-22 E204-22J  
 LAB FILE ID: 98F03026 98F03027  
 DATE EXTRACTED: 06/05/1215:15 06/05/1215:15 DATE COLLECTED: 05/24/12  
 DATE ANALYZED: 06/06/1215:15 06/06/1215:20 DATE RECEIVED: 05/24/12  
 PREP. BATCH: IMF010S IMF010S  
 CALIB. REF: 98F03018 98F03018

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Aluminum	20000	21400	7	10
Antimony	0.253J	ND	NA	10
Arsenic	5.62	5.80	3	10
Barium	88.0	84.4	4	10
Beryllium	0.799	0.793J	NA	10
Boron	ND	ND	0	10
Cadmium	0.129J	ND	NA	10
Calcium	3090	3410	10	10
Chromium	24.7	27.0	10	10
Cobalt	5.56	6.17	11*	10
Copper	9.36	10.5	12*	10
Iron	23600	26200	11*	10
Lead	6.08	6.23	2	10
Magnesium	5080	5440	7	10
Manganese	163	183	12*	10
Molybdenum	0.661	0.655J	NA	10
Nickel	11.7	13.1	12*	10
Potassium	1500	1640	9	10
Selenium	ND	ND	0	10
Silver	0.0756J	ND	NA	10
Sodium	480	523J	NA	10
Strontium	28.0	27.1	3	10
Thallium	0.251J	ND	NA	10
Tin	ND	ND	0	10
Titanium	913	994	9	10
Vanadium	41.2	44.3	8	10
Zinc	44.0	43.9	0	10
Lithium	30.0	28.2	6	10
Phosphorus	138	150	9	10
Zirconium	2.93J	ND	NA	10

METHOD 7470A  
 MERCURY BY COLD VAPOR

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E204  
 =====

Matrix : WATER  
 Instrument ID : TI047  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/L)	DLF	MOIST	RL (mg/L)	MDL (mg/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HGE025WB	ND	1	NA	0.000500	0.000100	05/30/1210:48	05/29/1216:00	M47E021010	M47E021008	HGE025W	NA	05/29/12
LCS1W	HGE025WL	0.00506	1	NA	0.000500	0.000100	05/30/1210:51	05/29/1216:00	M47E021011	M47E021008	HGE025W	NA	05/29/12
LCD1W	HGE025WC	0.00507	1	NA	0.000500	0.000100	05/30/1210:53	05/29/1216:00	M47E021012	M47E021008	HGE025W	NA	05/29/12
EB-052412	E204-01	ND	1	NA	0.000500	0.000100	05/30/1211:29	05/29/1216:00	M47E021029	M47E021020	HGE025W	05/24/12	05/24/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E204  
METHOD: 7470A

=====

MATRIX: WATER % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1W  
CONTROL NO.: HGE025WB HGE025WL HGE025WC  
LAB FILE ID: M47E021010 M47E021011 M47E021012  
DATIME EXTRCTD: 05/29/1216:00 05/29/1216:00 05/29/1216:00 DATE COLLECTED: NA  
DATIME ANALYZD: 05/30/1210:48 05/30/1210:51 05/30/1210:53 DATE RECEIVED: 05/29/12  
PREP. BATCH: HGE025W HGE025W HGE025W  
CALIB. REF: M47E021008 M47E021008 M47E021008

ACCESSION:

PARAMETER	BLNK RSLT mg/L	SPIKE AMT mg/L	BS RSLT mg/L	BS % REC	SPIKE AMT mg/L	BSD RSLT mg/L	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.005	.00506	101	.005	.00507	101	0	90-115	20

METHOD 7471A  
MERCURY BY COLD VAPOR

Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E204

Matrix : SOIL  
Instrument ID : TI047

SAMPLE ID	EMAX SAMPLE ID	RESULTS			RL (mg/kg)	MDL (mg/kg)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
		(mg/kg)	DLF	MOIST									
MBLK1S	HGF003SB	ND	1	NA	0.100	0.0500	06/05/1215:43	06/05/1211:45	M47F002037	M47F002032	HGF003S	NA	06/05/12
LCS1S	HGF003SL	0.892	1	NA	0.100	0.0500	06/05/1215:45	06/05/1211:45	M47F002038	M47F002032	HGF003S	NA	06/05/12
LCD1S	HGF003SC	0.882	1	NA	0.100	0.0500	06/05/1215:47	06/05/1211:45	M47F002039	M47F002032	HGF003S	NA	06/05/12
SL-704-SA5C-SB-0.0-0.5AS	E204-02A	0.989	0.995	10.6	0.111	0.0556	06/05/1215:49	06/05/1211:45	M47F002040	M47F002032	HGF003S	05/24/12	05/24/12
SL-704-SA5C-SB-0.0-0.5	E204-02	ND	0.995	10.6	0.111	0.0556	06/05/1215:52	06/05/1211:45	M47F002041	M47F002032	HGF003S	05/24/12	05/24/12
SL-704-SA5C-SB-0.0-0.5DL	E204-02J	ND	4.98	10.6	0.557	0.279	06/05/1215:54	06/05/1211:45	M47F002042	M47F002032	HGF003S	05/24/12	05/24/12
SL-704-SA5C-SB-0.0-0.5MS	E204-02M	1.04	0.997	10.6	0.112	0.0558	06/05/1215:56	06/05/1211:45	M47F002043	M47F002032	HGF003S	05/24/12	05/24/12
SL-704-SA5C-SB-0.0-0.5MSD	E204-02S	1.01	0.987	10.6	0.110	0.0552	06/05/1216:02	06/05/1211:45	M47F002046	M47F002044	HGF003S	05/24/12	05/24/12
SL-704-SA5C-SB-4.0-5.0	E204-03	ND	1.00	14.0	0.116	0.0581	06/05/1216:04	06/05/1211:45	M47F002047	M47F002044	HGF003S	05/24/12	05/24/12
SL-704-SA5C-SB-9.0-10.0	E204-05	ND	0.992	10.7	0.111	0.0555	06/05/1216:06	06/05/1211:45	M47F002048	M47F002044	HGF003S	05/24/12	05/24/12
SL-694-SA5C-SB-0.0-0.5	E204-07	ND	1.00	14.4	0.117	0.0584	06/05/1216:08	06/05/1211:45	M47F002049	M47F002044	HGF003S	05/24/12	05/24/12
SL-694-SA5C-SB-4.0-5.0	E204-09	ND	0.992	9.9	0.110	0.0550	06/05/1216:10	06/05/1211:45	M47F002050	M47F002044	HGF003S	05/24/12	05/24/12
SL-694-SA5C-SB-9.0-10.0	E204-11	ND	1.00	12.8	0.115	0.0573	06/05/1216:13	06/05/1211:45	M47F002051	M47F002044	HGF003S	05/24/12	05/24/12
SL-672-SA5C-SB-0.0-0.5	E204-12	ND	1.00	10.7	0.112	0.0560	06/05/1216:15	06/05/1211:45	M47F002052	M47F002044	HGF003S	05/24/12	05/24/12
SL-672-SA5C-SB-4.0-5.0	E204-14	ND	0.990	15.9	0.118	0.0589	06/05/1216:17	06/05/1211:45	M47F002053	M47F002044	HGF003S	05/24/12	05/24/12
SL-677-SA5C-SB-0.0-0.5	E204-16	ND	0.987	14.4	0.115	0.0577	06/05/1216:20	06/05/1211:45	M47F002054	M47F002044	HGF003S	05/24/12	05/24/12
SL-677-SA5C-SB-4.0-5.0	E204-17	ND	0.990	12.4	0.113	0.0565	06/05/1216:22	06/05/1211:45	M47F002055	M47F002044	HGF003S	05/24/12	05/24/12
SL-705-SA5C-SB-0.0-0.5	E204-19	ND	0.985	11.7	0.112	0.0558	06/05/1216:28	06/05/1211:45	M47F002058	M47F002056	HGF003S	05/24/12	05/24/12
SL-705-SA5C-SB-4.0-5.0	E204-20	ND	0.985	11.4	0.111	0.0556	06/05/1216:30	06/05/1211:45	M47F002059	M47F002056	HGF003S	05/24/12	05/24/12
SL-705-SA5C-SB-9.0-10.0	E204-22	ND	1.00	12.4	0.114	0.0571	06/05/1216:33	06/05/1211:45	M47F002060	M47F002056	HGF003S	05/24/12	05/24/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E204  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: NA  
DILTN FACTR: 1 1 1  
SAMPLE ID: MBLK1S  
CONTROL NO.: HGF003SB HGF003SL HGF003SC  
LAB FILE ID: M47F002037 M47F002038 M47F002039  
DATIME EXTRCTD: 06/05/1211:45 06/05/1211:45 06/05/1211:45 DATE COLLECTED: NA  
DATIME ANALYZD: 06/05/1215:43 06/05/1215:45 06/05/1215:47 DATE RECEIVED: 06/05/12  
PREP. BATCH: HGF003S HGF003S HGF003S  
CALIB. REF: M47F002032 M47F002032 M47F002032

ACCESSION:

PARAMETER	BLNK RSLT mg/kg	SPIKE AMT mg/kg	BS RSLT mg/kg	BS % REC	SPIKE AMT mg/kg	BSD RSLT mg/kg	BSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.833	.892	107	.833	.882	106	1	85-120	20

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E204  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.6  
DILTN FACTR: 0.995 0.997 0.987  
SAMPLE ID: SL-704-SA5C-SB-0.0-0.5  
CONTROL NO.: E204-02 E204-02M E204-02S  
LAB FILE ID: M47F002041 M47F002043 M47F002046  
DATIME EXTRCTD: 06/05/1211:45 06/05/1211:45 06/05/1211:45 DATE COLLECTED: 05/24/12  
DATIME ANALYZD: 06/05/1215:52 06/05/1215:56 06/05/1216:02 DATE RECEIVED: 05/24/12  
PREP. BATCH: HGF003S HGF003S HGF003S  
CALIB. REF: M47F002032 M47F002032 M47F002044

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %
Mercury	ND	.929	1.04	112	.92	1.01	110	2	65-135	20

EMAX QUALITY CONTROL DATA  
ANALYTICAL SPIKE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12E204  
METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.6  
DILTN FACTR: 0.995 0.995  
SAMPLE ID: SL-704-SA5C-SB-0.0-0.5  
CONTROL NO.: E204-02 E204-02A  
LAB FILE ID: M47F002041 M47F002040  
DATIME EXTRCTD: 06/05/1211:45 06/05/1211:45 DATE COLLECTED: 05/24/12  
DATIME ANALYZD: 06/05/1215:52 06/05/1215:49 DATE RECEIVED: 05/24/12  
PREP. BATCH: HGF003S HGF003S  
CALIB. REF: M47F002032 M47F002032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SPIKE AMT (mg/kg)	AS RSLT (mg/kg)	AS % REC	QC LIMIT ( % )
Mercury	ND	.927	.989	107	85-115

EMAX QUALITY CONTROL DATA  
 SERIAL DILUTION ANALYSIS

CLIENT: CDM  
 PROJECT: SSFL PHASE 3  
 BATCH NO.: 12E204  
 METHOD: 7471A

=====

MATRIX: SOIL % MOISTURE: 10.6  
 DILUTION FACTOR: 0.995 4.98  
 SAMPLE ID: SL-704-SA5C-SB-0.0- SL-704-SA5C-SB-0.0-  
 EMAX SAMP ID: E204-02 E204-02J  
 LAB FILE ID: M47F002041 M47F002042  
 DATE EXTRACTED: 06/05/1211:45 06/05/1211:45 DATE COLLECTED: 05/24/12  
 DATE ANALYZED: 06/05/1215:52 06/05/1215:54 DATE RECEIVED: 05/24/12  
 PREP. BATCH: HGF003S HGF003S  
 CALIB. REF: M47F002032 M47F002032

ACCESSION:

PARAMETER	SMPL RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT ( % )
Mercury	ND	ND	0	10

METHOD 6850  
 PERCHLORATE

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E204  
 =====

Matrix : WATER  
 Instrument ID : G0  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	PLF001WB	ND	1	NA	0.200	0.100	06/05/1216:32	NA	NF05022	NF05014	PLF001W	NA	NA
LCS1W	PLF001WL	1.04	1	NA	0.200	0.100	06/05/1216:46	NA	NF05023	NF05014	PLF001W	NA	NA
LCD1W	PLF001WC	1.10	1	NA	0.200	0.100	06/05/1217:00	NA	NF05024	NF05014	PLF001W	NA	NA
EB-052412	E204-01	ND	1	NA	0.200	0.100	06/05/1217:28	NA	NF05026	NF05025	PLF001W	05/24/1215:00	05/24/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: METHOD 6850

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: PLF001WB PLF001WL PLF001WC  
LAB FILE ID: NF05022 NF05023 NF05024  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 06/05/1216:32 06/05/1216:46 06/05/1217:00 DATE RECEIVED: NA  
PREP. BATCH: PLF001W PLF001W PLF001W  
CALIB. REF: NF05014 NF05014 NF05014

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Perchlorate	ND	1.00	1.04	104	1.00	1.10	110	6	85-115	20

METHOD 7199  
 HEXAVALENT CHROMIUM

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E204  
 =====

Matrix : WATER  
 Instrument ID : I59  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (ug/L)	DLF MOIST		RL (ug/L)	MDL (ug/L)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
MBLK1W	HCE031WB	ND	1	NA	0.200	0.100	05/25/1209:55	NA	IE25003	IE25001	HCE031W	NA	NA
MBLK1W	HCE031WQ	ND	1	NA	0.200	0.100	05/25/1210:05	NA	IE25004	IE25001	HCE031W	NA	NA
LCS1W	HCE031WL	2.02	1	NA	0.200	0.100	05/25/1210:15	NA	IE25005	IE25001	HCE031W	NA	NA
LCS1W	HCE031WX	1.99	1	NA	0.200	0.100	05/25/1210:49	NA	IE25007	IE25001	HCE031W	NA	NA
LCD1W	HCE031WC	1.99	1	NA	0.200	0.100	05/25/1210:59	NA	IE25008	IE25001	HCE031W	NA	NA
LCD1W	HCE031WY	1.87	1	NA	0.200	0.100	05/25/1211:20	NA	IE25009	IE25001	HCE031W	NA	NA
EB-052412	E204-01	ND	1	NA	0.200	0.100	05/25/1211:30	NA	IE25010	IE25001	HCE031W	05/24/1215:00	05/24/12
EB-052412	E204-01R	ND	1	NA	0.200	0.100	05/25/1211:41	NA	IE25011	IE25001	HCE031W	05/24/1215:00	05/24/12

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCE031WB HCE031WL HCE031WC  
LAB FILE ID: IE25003 IE25005 IE25008  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/25/1209:55 05/25/1210:15 05/25/1210:59 DATE RECEIVED: NA  
PREP. BATCH: HCE031W HCE031W HCE031W  
CALIB. REF: IE25001 IE25001 IE25001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	2.02	101	2.00	1.99	100	1	80-120	20

EMAX QUALITY CONTROL DATA  
LCS/LCD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 12E204  
METHOD: 7199

=====

MATRIX: WATER % MOISTURE: NA  
DILUTION FACTOR: 1 1 1  
SAMPLE ID: MBLK1W  
LAB SAMP ID: HCE031WQ HCE031WX HCE031WY  
LAB FILE ID: IE25004 IE25007 IE25009  
DATE EXTRACTED: NA NA NA DATE COLLECTED: NA  
DATE ANALYZED: 05/25/1210:05 05/25/1210:49 05/25/1211:20 DATE RECEIVED: NA  
PREP. BATCH: HCE031W HCE031W HCE031W  
CALIB. REF: IE25001 IE25001 IE25001

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD ( % )	QC LIMIT ( % )	MAX RPD ( % )
Hexavalent Chromium	ND	2.00	1.99	100	2.00	1.87	93	7	80-120	20

METHOD 9040C  
PH

=====  
Client : CDM  
Project : SSFL PHASE 3  
Batch No. : 12E204  
=====

Matrix : WATER  
Instrument ID : 53  
=====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL (pH Unit)	MDL (pH Unit)	Analysis DATETIME	Extraction DATETIME	LFID	CAL REF	PREP BATCH	Collection DATETIME	Received DATETIME
EB-052412	E204-01	5.66	1	NA	NA	NA	05/24/1218:41	NA	12PHE030W01	PHE030W	PHE030W	05/24/1215:00	05/24/12
EB-052412DUP	E204-01D	5.71	1	NA	NA	NA	05/24/1218:42	NA	12PHE030W02	PHE030W	PHE030W	05/24/1215:00	05/24/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9040C  
MATRIX: WATER  
% MOISTURE: NA

=====

BATCH NO.:	12E204	DATE RECEIVED:	05/24/12
SAMPLE ID:	EB-052412DUP	DATE EXTRACTED:	NA
CONTROL NO.:	E204-01D	DATE ANALYZED:	05/24/1218:42

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	5.66	5.71	-0.05	0.10

## METHOD 9045D

PH

=====  
 Client : CDM  
 Project : SSFL PHASE 3  
 Batch No. : 12E204  
 =====

=====  
 Matrix : SOIL  
 Instrument ID : 53  
 =====

SAMPLE ID	EMAX SAMPLE ID	RESULTS (pH Unit)	DLF MOIST		RL	MDL	Analysis	Extraction	LFID	CAL REF	PREP BATCH	Collection	Received
			(pH Unit)	(pH Unit)	(pH Unit)	(pH Unit)	DATETIME	DATETIME				DATETIME	DATETIME
SL-704-SA5C-SB-0.0-0.5	E204-02	7.97	1	NA	NA	NA	05/25/1217:52	05/25/1216:14	12PHE031S01	PHE031S	PHE031S	05/24/1208:46	05/24/12
SL-704-SA5C-SB-0.0-0.5DUPE	204-02D	7.96	1	NA	NA	NA	05/25/1217:55	05/25/1216:14	12PHE031S02	PHE031S	PHE031S	05/24/1208:46	05/24/12
SL-704-SA5C-SB-4.0-5.0	E204-03	7.43	1	NA	NA	NA	05/25/1217:58	05/25/1216:14	12PHE031S03	PHE031S	PHE031S	05/24/1208:52	05/24/12
SL-704-SA5C-SB-9.0-10.0	E204-05	8.37	1	NA	NA	NA	05/25/1218:00	05/25/1216:14	12PHE031S04	PHE031S	PHE031S	05/24/1208:57	05/24/12
SL-694-SA5C-SB-0.0-0.5	E204-07	8.30	1	NA	NA	NA	05/25/1218:02	05/25/1216:14	12PHE031S05	PHE031S	PHE031S	05/24/1211:03	05/24/12
SL-694-SA5C-SB-4.0-5.0	E204-09	8.57	1	NA	NA	NA	05/25/1218:03	05/25/1216:14	12PHE031S06	PHE031S	PHE031S	05/24/1211:08	05/24/12
SL-694-SA5C-SB-9.0-10.0	E204-11	8.35	1	NA	NA	NA	05/25/1218:05	05/25/1216:14	12PHE031S07	PHE031S	PHE031S	05/24/1211:13	05/24/12
SL-672-SA5C-SB-0.0-0.5	E204-12	7.96	1	NA	NA	NA	05/25/1218:06	05/25/1216:14	12PHE031S08	PHE031S	PHE031S	05/24/1209:50	05/24/12
SL-672-SA5C-SB-4.0-5.0	E204-14	8.39	1	NA	NA	NA	05/25/1218:08	05/25/1216:14	12PHE031S09	PHE031S	PHE031S	05/24/1209:55	05/24/12
SL-677-SA5C-SB-0.0-0.5	E204-16	8.43	1	NA	NA	NA	05/25/1218:09	05/25/1216:14	12PHE031S10	PHE031S	PHE031S	05/24/1214:23	05/24/12
SL-677-SA5C-SB-4.0-5.0	E204-17	8.08	1	NA	NA	NA	05/25/1218:10	05/25/1216:14	12PHE031S11	PHE031S	PHE031S	05/24/1214:33	05/24/12
SL-705-SA5C-SB-0.0-0.5	E204-19	8.18	1	NA	NA	NA	05/25/1218:12	05/25/1216:14	12PHE031S12	PHE031S	PHE031S	05/24/1213:40	05/24/12
SL-705-SA5C-SB-4.0-5.0	E204-20	8.56	1	NA	NA	NA	05/25/1218:13	05/25/1216:14	12PHE031S13	PHE031S	PHE031S	05/24/1213:43	05/24/12
SL-705-SA5C-SB-9.0-10.0	E204-22	8.44	1	NA	NA	NA	05/25/1218:15	05/25/1216:14	12PHE031S14	PHE031S	PHE031S	05/24/1213:48	05/24/12

EMAX QUALITY CONTROL DATA  
DUPLICATE ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
METHOD: METHOD 9045D  
MATRIX: SOIL  
% MOISTURE: NA

=====

BATCH NO.:	12E204	DATE RECEIVED:	05/24/12
SAMPLE ID:	SL-704-SA5C-SB-0.0-0.5DUP	DATE EXTRACTED:	05/25/1216:14
CONTROL NO.:	E204-02D	DATE ANALYZED:	05/25/1217:55

ACCESSION:

PARAMETER	SAMPLE (pH Unit)	DUP. SAMPLE (pH Unit)	DIFFERENCE (pH Unit)	LIMIT (pH Unit)
pH	7.97	7.96	0.01	0.10

# Appendix C

## Data Usability Assessment Report

# Appendix C

## Data Usability Assessment Report

The purposes of this data usability and assessment report (DUAR) are to 1) summarize the data validation performed on the data sets for the Historic Site Assessment (HSA) Subarea 5C samples collected, and 2) determine whether the sample results meet the Data Quality Objectives (DQOs) outlined in the *Master Field Sampling Plan for Chemical Data Gap Investigation Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California* (CDM Federal Programs Corporation [CDM Smith] 2012a) (Master FSP) and *Addendum No. 1 to Master Field Sampling Plan for Chemical Data Gap Investigation, Phase 3 Soil Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California, Subarea 5C* (CDM Smith 2012b) (Addendum to the Master FSP).

The Master FSP is Appendix A of *Work Plan for Chemical Data Gap Investigation, Phase 3 Soil Chemical Sampling at Area IV, Santa Susana Field Laboratory, Ventura County, California* (CDM Smith 2012c), which also includes Appendix B, Quality Assurance Project Plan (QAPP), Appendix C, Worker Safety and Health Program, and Appendix D, Standard Operating Procedures (SOPs).

### C.1 Usability Summary

For this data usability assessment, 85 data sets were reviewed. A data set consists of 20 or fewer samples grouped together by analytical method for analyses depending on the time and date of when the samples were received by the laboratory. A data set is called a sample delivery group, or SDG. The analyses performed are discussed in Section 2.5 of the Subarea 5C Technical Memorandum (TM).

Samples were collected and analyzed in accordance with the WP/FSAP (CDM Smith 2012c). Deviations were encountered during the field investigation for the Subarea 5C sampling activities and are discussed in detail in Section 2.7 of the Subarea 5C TM.

The validated data for Subarea 5C samples are usable as reported. No sample results were rejected during validation. Specific details are provided in the validation reports in this Appendix and below in Section C.8.

### C.2 Data Validation Procedures

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

The data validation strategy employed was to validate 10 percent of the data according to EPA Level IV protocols (all QC parameters and raw data) and the

remaining 90 percent according to EPA Level III (all QC parameters except calibrations and raw data) protocols.

Table C-1 shows all SDGs that include Subarea 5C samples and which SDGs were validated as Level III or Level IV. Some SDGs contain samples from other subareas but all samples in an SDG were validated together.

In order to evaluate the quality of the laboratory and the validation firm, CDM Smith chemists reviewed 10 percent of the Subarea 5C sample SDGs. The purpose of the review was to identify any quality control issues with the laboratory not identified by the validation firm or any discrepancies in validation procedures by the validation firm. No additional qualifiers were applied to the data based on CDM Smith's review.

### **C.3 Quality Assurance Objectives**

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

A review of the collected data is necessary to determine if data quality objectives established in the WP/FSAP (CDM Smith 2012c) have been met. The following data measurement tasks were evaluated:

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

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

### **C.4 Summary of Field and Laboratory QA Activities**

CDM Smith completed sampling activities in Subarea 5C in accordance with the approved WP/FSAP (CDM Smith 2012c). A total of 677 soil samples were collected from 204 locations for Subarea 5C. Table 2-1 in the Subarea 5C TM provides a summary of the samples collected and the laboratory analyses requested.

Table C-1 in this report presents the SDGs and validation level for the HSA Subarea 5C sample data. An index of samples associated with each SDG is presented at the

beginning of the data validation reports presented in this appendix. The WP/FSAP (CDM Smith 2012c) defined the procedures to be followed and the data quality requirements for the field sampling events.

## **C.5 Field Quality QA/QC**

Field QC samples, such as matrix spike/matrix spike duplicates (MS/MSDs) and field duplicates, were to be collected at a frequency of 1 per 20 samples (5 percent) for MS/MSDs and field duplicates. Twenty-eight MS/MSD and field duplicate samples were collected at 18 Subarea 5C locations. MS/MSD and field duplicate samples were slightly below (four percent) the frequency requirements detailed in the Master FSP (CDM Smith 2012a). A complete evaluation of the accuracy and precision of the Subarea 5C sampling activities for all samples could not be performed. The validation performed did not identify any extensive indications of accuracy or precision problems based on MS/MSDs and field duplicates. This oversight is considered to have minimal impact to the quality of the data overall. Processes have been added to the sampling program to ensure the correct number of QC samples are collected.

Eighteen equipment rinsate blank samples were collected for Subarea 5C. The equipment rinsate blank results are presented in Table C-2.

Three field blanks were collected during sampling for Subarea 5C. The field blanks associated with this ASTM decontamination water have been applied to the Subarea 5C samples accordingly. The results for these samples are presented in Table C-3.

Twenty-seven trip blank samples were shipped with the Subarea 5C samples. The results for these samples are presented in Tables C-4. Data qualifications based on blank detections are discussed in Section C.7.3 and in the Appendix C validation reports.

Temperature blanks were to be included with each shipment of samples. Based on validation results, all temperature blanks for Subarea 5C met criteria.

With the exception of the MS/MSD and duplicate samples, the number of field QC samples collected satisfies the minimum requirements for the Subarea 5C sampling program. The MS/MSD and field duplicate discrepancy is not considered to impact the overall quality of the data. Field QA/QC objectives were also attained through the use of appropriate sampling techniques.

## **C.6 Laboratory Quality QA/QC**

Analytical QA/QC was assessed by laboratory QC checks, method blanks, sample custody tracking, sample preservation, adherence to holding times, laboratory control samples (LCSs), MSs, calibration recoveries, surrogates, tuning criteria, second column confirmations, internal standards, serial dilutions, laboratory duplicates, and interference check standards. All of the laboratory QC sample criteria met project

requirements as indicated in the data validation reports in this appendix with the appropriate qualifiers applied. No sample results were rejected.

## C.7 Data Quality Indicators

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

Achievement of the DQOs was determined in part by the use of data quality indicators (DQIs) as described in the WP/FSAP (CDM Smith 2012c). These DQIs for measurement data are expressed in terms of PARCCS. The DQIs provide a mechanism for ongoing control to evaluate and measure data quality throughout the project. These criteria are defined in the sections below.

### C.7.1 Precision

Precision is a quantitative term that estimates the reproducibility of a set of replicate measurements under a given set of conditions. It is defined as a measurement of mutual agreement between measurements of the same property and is expressed in terms of relative percent difference (RPD) between duplicate determinations.

RPD is calculated as follows:

$$\text{RPD} = \text{absolute value } [(C1-C2)/\{(C1+C2)/2\}] \times 100\%$$

Where:

- C1 = concentration of primary sample
- C2 = concentration of duplicate sample

Field and analytical precision were determined from the review of the field duplicate results. The sample results were compared by calculating their RPDs. The field duplicate samples were collected in the same manner as the original samples but were collected in separate, individual containers, given separate sample identifiers, and treated as individual samples by the laboratory.

Laboratory duplicate RPD control limits are presented in the WP/FSAP (CDM Smith 2012c) or are laboratory specific. For laboratory duplicates, if one or both of the sample results were less than two times the RL, a control limit of the absolute difference equal to the RL value was used for comparison.

The field duplicate RPD criterion is 50 percent. Field duplicates for this project were validated using the following: If one result is non-detect and the other result is above the RL, the RPD result is shown as 200 percent and the field duplicate sample and parent sample results are qualified as estimated "J" or "UJ." If the field duplicate RPD was above the 50 percent criterion (and both sample results were above the RL), the field duplicate and parent sample results for that analyte were qualified as estimated "J."

Qualifiers were applied to applicable sample analyte results during the validation process based on laboratory and field duplicate precision results. Details are discussed in the laboratory validation reports in this appendix. Table C-5 show the field duplicate pairs and RPD results for Subarea 5C. RPD results outside of criteria are highlighted.

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

- Twelve dioxin results were qualified as estimated based on second column RPD results
- One hundred and four metal analyte results were qualified as estimated based on laboratory precision criteria
- One hundred and fifteen dioxin results; 14 metal results; one mercury result; ten TPH EFH results; and 33 SVOC SIM results were qualified based on field duplicate criteria

There is no discernable pattern or reason for the laboratory and field sample RPD exceedances identified. No field sampling issues were identified from the RPD results that were outside of criteria and the exceedances are reasonable for this type of sampling activity. Sample results that have been qualified as estimated "J/UJ" due to precision criteria are usable for project decisions with a degree of caution.

### C.7.2 Accuracy

Accuracy is the degree of agreement between a measurement and the accepted reference or true value and is a measure of the bias in a system. Accuracy of the data was assessed by comparing LCS recovery, MS recovery, calibration recovery, Inductively Coupled Plasma (ICP) interferences, and by performing serial dilution checks during metals analyses. Accuracy is expressed as percent recovery (%R), which is calculated by:

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

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

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

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

Qualifiers were applied to applicable sample analyte results during the validation process based on laboratory accuracy results and are discussed in detail in the laboratory validation reports in Appendix C.

The following individual analyte results were qualified as nondetect "U" or nondetect estimated "UJ" based on accuracy criteria for Subarea 5C samples:

- One hundred and seven metal analyte results were qualified as estimated based on inductively coupled plasma serial dilution results
- One hundred and forty-four PCB/PCT results were qualified as estimated based on calibration criteria
- Six dioxin results; 630 metal analyte results; one VOC result and four SVOC SIM results were qualified as estimated based on MS percent recovery criteria
- Nine hundred and twelve SVOC SIM results were qualified as estimated based on surrogate recovery criteria
- One VOC result based on calibration relative response factor criteria

Sample preservation, handling, and holding times are additional measures of accuracy of the data. All sample preservation, holding times and handling criteria were met except for eight mercury results. These results were qualified as estimated "J/UJ."

Sample results that have been qualified as estimated "J/UJ" due to accuracy criteria are usable for project decisions.

### **C.7.3 Blank Contamination**

Field blanks (e.g., equipment and trip) and laboratory method blanks are analyzed to identify possible sources of contamination. Contamination of a sample can be introduced by field sample collection methods, sample handling, preparation, and/or analysis. The laboratory validation reports in this appendix and summarized below discuss the results qualified based on field and laboratory blank contamination.

The following individual analyte results were qualified as nondetect "U" based on blank contamination for the Subarea 5C samples:

- Two thousand, two hundred and twenty dioxin results (45%) were qualified as non-detect due to blank contamination criteria

Estimated detection limits (EDLs) for the dioxins are calculated for each sample. The EDLs for this analysis are very low, reported in ng/kg or parts per trillion, resulting in numerous results qualified as estimated "J" values because they are below the RL. Many of these estimated values have been subsequently qualified as nondetect "U" because the compound was detected in related laboratory blanks. Low level detections of dioxin analytes are somewhat inevitable because of the nature and universal extent of the compounds. The dioxin levels found in the blanks were well below site-related action levels. Therefore, the resulting qualification of associated sample results as not detected or "U" qualified data do not falsely diminish identification of site-related contaminants.

Tables C-2 through C-4 provide a summary of chemicals observed in the equipment, field and trip blank samples. Most of the equipment blanks, field blanks and trip blanks detected compounds were below the RLs but above the MDLs. Compounds detected above the RL in equipment and trip blanks are highlighted yellow in the associated tables. ASTM International Type II water is not typically certified "clean" to the low RLs established for the low level methods used for the co-located sampling program.

ASTM International Type II water is not typically certified "clean" to the low RLs established for the low level methods used for Phase 3 Subarea 5C sampling. As shown in Table 4-2, a variety of analytes were detected in the field blanks. One VOC result (2-butanone) was qualified as non-detect based on field blank contamination. Low level detections of some dioxin compounds were detected in one of the field blanks as shown in Table 4-2. These detected results were all above the RL except for one dioxin compound. The laboratory was contacted to verify these reported values and help determine if sample carryover could have been the cause of these detected results. The laboratory evaluated the sequencing of the sample analyses and determined that carryover was not the cause of the detected dioxin results. The laboratory confirmed this conclusion by a thorough review of all associated method blanks, field samples and equipment blanks. A review of all field blank samples collected to date for the program do not show any pattern of dioxin contamination except for the sample shown in Table 4-2. The evaluation of ASTM International Type II water used in the field will continue throughout the sampling program to determine if another source should be procured for sampling if detected concentrations are above a rate normally expected in ASTM International Type II water.

A review of the Phase 3 equipment blanks for Subarea 5C was also performed. In general, a variety of analytes were detected above their respective RLs. All Phase 3 equipment blanks will continue to be monitored in order to determine if these low level detections are consistent, thus indicating a possible deficiency in decontamination procedures and/or source water impacts that need to be addressed and corrected. No qualification of sample results was required during the validation process regarding

equipment blank contamination. To date, chemical detections in equipment blank samples appear to be random occurrences.

Trip blank results are presented in Table 4-3. All the trip blank samples had detections of GRO. The trip blank samples are received from the laboratory in coolers with the empty sample jars and are returned to the laboratory with the collected samples all the while unopened in the field. The laboratory was requested to review these anomalous results and the chromatograms for these samples. EMAX noted that the detects were the results of one or more discrete peaks that eluted in the range of GROs (from C5 to C12). Those discrete peaks were included in the integration of the samples resulting in GRO detection above the MRL. However, EMAX reported that there was no gasoline pattern shown in these trip blanks. CDM Smith will test a vial of each set (lot) of trip blank samples received from a laboratory prior to their use to confirm the quality of the water supplied. This will help determine if future GRO detections above the MRL can be attributed to contamination in the shipping process (in the cooler) or if the detections of individual GRO compounds are isolated in the laboratory. Future reporting rules for GRO in trip blanks will require the identification of clearly identified GRO patterns by the laboratory. All sample results were non-detect for GRO for the Subarea 5C Phase 3 soil samples.

#### **C.7.4 Representativeness, Comparability, and Sensitivity**

Representativeness, comparability, and sensitivity are achieved by using EPA-approved sampling procedures and analytical methodologies. By following the procedures described in the WP/FSAP (CDM Smith 2012c) for this sampling event and future sampling events, sample analysis should yield results representative of environmental conditions at the time of sampling. Similarly, reasonable comparability of analytical results for this and future sampling events can be achieved if approved EPA analytical methods and standardized reporting units are employed.

##### **C.7.4.1 Representativeness**

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

Representativeness also can be monitored by reviewing field documentation and/or by performing field audits. For this report, a detailed review was performed on the COC forms, field data collection forms, laboratory sample confirmation logs, and data validation packages. Laboratory QA/QC requirements were included in the WP/FSAP (CDM Smith 2012c) and laboratory statements of work (SOWs) to ensure that the laboratory analytical results were representative of true field conditions.

Field sampling accuracy was attained through strict adherence to the approved WP/FSAP (CDM Smith 2012c) and by using approved standard operating procedures for field data collection. Based on this, the data should represent as near as possible the actual field conditions at the time of sampling.

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

#### **C.7.4.2 Comparability**

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

To ensure comparability of data generated for the site, standard sample collection procedures and Department of Toxic Substances Control (DTSC)-approved analytical methods were utilized by CDM Smith. The sample analyses were performed by LLI and EMAX. Utilizing such procedures and methods enables the current data to be comparable with previous and future data sets generated with similar methods.

#### **C.7.4.3 Sensitivity**

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

##### ***Detection Limits***

Each analytical method used during the sampling events was selected because it had potential to achieve RLs established for this project. RLs were established for each analyte in consultation with the laboratory to achieve analytical results at or below regulatory comparison criteria.

The method detection limit (MDL) is defined as the concentration of an analyte that produces a signal with a 99 percent confidence that the concentration is above that of a blank but that that concentration cannot be accurately quantified. A blank is a sample that does not contain measurable concentrations of the analyte of concern. Tested by statistical performance, calibration samples, and LCSs, MDLs represent the best fundamental measurement of instrument sensitivity and the basis for establishing RLs.

The laboratory RL is typically about 3 to 5 times higher than the MDL and is a laboratory-specific number. The actual sample RL is variable based on the sample matrix, moisture content, and other sample-specific factors. When a sample has to be diluted before analysis, either because of matrix problems or to bring the instrument response within the linear dynamic range, the RL is raised by a factor corresponding to the dilution factor.

In reporting environmental sample results, laboratories follow protocols that help ensure that the result reported is at the lowest level and is defensible, taking into account the ability of the instrument to differentiate a signal generated by the analyte from the background instrument noise, imprecision added to the detection capabilities of the analyte due to the sample processing manipulations (MDLs) and sample matrix affects, and adjustments made to the detection limits based on difficulties encountered in analyzing the sample (dilution factors, etc.).

The result for an analyte is flagged with a "U" if that analyte was not detected, or qualified with a "J" flag if blank or other QC results fall outside the appropriate tolerance limits. If an analyte is present at a concentration between the MDL and the RL, the analytical result is flagged with a "J," indicating an estimated quantity. Qualifying the result as an estimated concentration reflects increased uncertainty in the reported value.

The following analyses and individual analyte sample results were qualified as estimated "J" due to the sample results being reported as detected below the RL for Subarea 5C samples:

- Method 1613B (Dioxins)
  - One thousand eight hundred and ninety-two individual analyte results
- Methods 6010B/6020 (Metals)
  - One thousand six hundred and twenty-one individual analyte results
- Method 7471A (Mercury)
  - Ten individual analyte results
- Method 8015B (TPH EFH)
  - Sixty-nine individual analyte results
- Method 8081A (Pesticides)
  - One individual analyte result
- Method 8082 (PCBs)
  - Eighteen individual analyte results
- Method 8260B (VOCs)
  - One individual analyte result
- Method 8270C SIM (SVOCs)
  - Four hundred and seventy-six individual analyte results
- Method 8315A (Formaldehyde)
  - One individual analyte result

As discussed in Section C.7.3, the EDLs for the dioxins are calculated for each sample and are very low resulting in numerous results qualified as estimated "J" values because they are below the RL as indicated above. The qualification of the dioxins results as estimated "J" based on RL criteria does not falsely diminish identification of site-related contaminants.

In general, for the data validated in this report, detection limits for the sample results were low enough to compare to the action levels stated in the WP/FSAP (CDM Smith 2012c). The detection limits for this project are lower than "normal" environmental data analyses. Analytical laboratory methods were modified in order to achieve the lowest practicable RL. Current laboratory instrumentation technology cannot achieve all of these low project RLs, and thus some of the RLs were above project criteria. These results are still considered usable for project decisions.

## C.8 Review of Selected Validation Reports

CDM Smith performed a review of 10 percent of the validation reports identified in Table C-1. This review involved comparing the validation report results against the laboratory data packages as well as the validation guidance documents. All validation report results that were reviewed were verified against the laboratory data packages and determined that validation documents were followed as required.

## C.9 Data Completeness

Completeness of the data collection program is defined as the percentage of samples planned for collection as listed in the WP/FSAP (CDM Smith 2012c) versus the actual number of samples collected during the field program (see equation A).

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

$$A. \quad \% \text{Completeness} = Cx \frac{100}{n}$$

Where:

C = actual number of samples collected  
n = total number of samples planned

$$B. \quad \% \text{Completeness} = Vx \frac{100}{n'}$$

Where:

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

The overall completeness goal, as defined in the WP/FSAP (CDM Smith 2012c), for these sampling events was 90 percent for all project data.

A total of 677 Subarea 5C soil samples including the field duplicates were collected and analyzed. As discussed in Section 2.7, a total of 204 locations in Subarea 5C (Table 2-1) were to be sampled at one or more depths. No subsurface samples were collected at 19 locations as noted in Table 2-1 due to shallow refusal at less than 2.5 feet bgs. Some locations required only a subsurface or surface sample while other locations required both a surface and a subsurface sample. The number of subsurface samples to be collected at each location was not pre-determined because the total depth of each boring varies depending on the local geology. The completeness goal for the actual number of samples collected compared to the number of samples planned is considered acceptable as a sample was collected from each location (depending on shallow refusal) and locations for trench samples will be collected during future Phase 3 sampling activities.

As discussed in Section 2.7 of the TM, the sampling deviations do not impact completeness objectives for this sampling event. Ninety-nine percent of the sample locations identified in the WP/FSAP Addendum were sampled meeting the completeness goal for the number of locations sampled versus number of locations planned to be sampled.

The completeness goal for acceptable data achieved was 100 percent of the number of measurements judged to be valid versus the total number of measurements made for all Subarea 5C samples analyzed. Table C-6, Completeness Calculation Summary, show a summary of the results that were estimated or rejected.

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

Sampling deviations from procedures described in the WP/FSAP (CDM Smith 2012c) are discussed in Section 2.7 of this TM. Deviations did not impact DQOs for this sampling event. The data reported are suitable for their intended use for characterization of Area IV of SSFL. The DQIs identified in the WP/FSAP (CDM Smith 2012c) met appropriate criteria. The completeness goals for both the locations sampled and the number of measurements judged to be valid were met or will be met. The achievement of the completeness goals for the data indicates a sufficient amount of usable data has been generated for project decisions.

## **C.10 Assessment of Data Usability and Reconciliation with WP/FSAP Goals**

A hundred percent of the data validated and reported for Subarea 5C are suitable for their intended use for site characterization. No sample results were rejected. The detection limits reported generally met the expected limits proposed by the analytical laboratory in their contract agreement with CDM Smith.

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

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

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**Table C-1 Sample Delivery Groups and Validation Levels for Subarea 5C**

Sample Delivery Group	Level of Validation Performed	CDM Smith Review
12D121	Level III	
12D147	Level III	
12D155	Level IV	
12D165	Level III	
12D175	Level III	
12D191	Level III	
12D198	Level III	Yes
12D208	Level III	
12D231	Level III	
12D256	Level III	
12D275	Level III	
12E004	Level III	
12E018	Level III	
12E034	Level III	
12E049	Level III	
12E055	Level IV	
12E067	Level III	
12E082	Level III	
12E098	Level III	
12E108	Level III	
12E116	Level III	Yes
12E134	Level III	
12E155	Level III	
12E169	Level IV	
12E187	Level III	
12E204	Level III	
12E229	Level III	
12E244	Level IV	
12E267	Level IV	
12F020	Level III	
12F029	Level III	
12F037	Level IV	
12F044	Level III	Yes
12F051	Level III	
12F071	Level IV	
12F074	Level IV	
12F093	Level III	
12F102	Level III	
12F120	Level III	Yes
12F132	Level III	
12F146	Level III	
12F162	Level III	

**Table C-1 Sample Delivery Groups and Validation Levels for Subarea 5C**

Sample Delivery Group	Level of Validation Performed	CDM Smith Review
12F182	Level III	
12F197	Level III	
12F215	Level III	
12F232	Level III	
12G030	Level III	
12G048	Level III	Yes
12G064	Level III	
12G199	Level III	
PH001	Level III	
PH002	Level III	
PH003	Level III	
PH004	Level III	
PH005	Level III	Yes
PH006	Level III	
PH007	Level III	
PH008	Level III	
PH009	Level III	
PH010	Level IV	Yes
PH011	Level III	
PH012	Level IV	
PH013	Level III	
PH014	Level III	
PH015	Level III	
PH016	Level III	
PH017	Level III	
PH018	Level III	
PH025	Level IV	
PH026	Level III	
PT001	Level III	
PT002	Level III	
PT003	Level III	
PT004	Level III	
PT005	Level III	
PT006	Level III	Yes
PT007	Level III	
PT008	Level III	
PT009	Level III	
PT010	Level III	
PT011	Level III	
PT012	Level III	
PT013	Level III	
PT014	Level III	
PT030	Level IV	Yes

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

Table C2 - Subarea 5C - Equipment Rinsate Samples

Analyte	Analytic Method	Units	Sample Name: EB-041912		EB-042612		EB-050312		EB-051012		EB-052412		EB-053012	
			Location: 5C_DG-EB		5C_DG-EB		5C_DG-EB		5C_DG-EB		5C_DG-EB		5C_DG-EB	
			Sample Date: 04/19/2012	Sample Type: EB	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier
1,1,1,2-Tetrachloroethane	8260B	µg/L								1 U				
1,1,1-Trichloroethane	8260B	µg/L								1 U				
1,1,2,2-Tetrachloroethane	8260B	µg/L								1 U				
1,1,2-Trichloro-1,2,2-trifluoroethane	8260B	µg/L								1 U				
1,1,2-Trichloroethane	8260B	µg/L								1 U				
1,1'-Biphenyl	8270C SIM	µg/L	2.2 U		2.2 U			2 U		2.1 U	2 U			2 U
1,1-Dichloroethane	8260B	µg/L								1 U				
1,1-Dichloroethene	8260B	µg/L								1 U				
1,1-Dichloropropene	8260B	µg/L								1 U				
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	1613B	pg/L	10.4 U		10.2 U			9.89 U		10.2 U	9.76 U			11.1 U
1,2,3,4,6,7,8-HPCDF	1613B	pg/L	10.4 U		10.2 U			9.89 U		10.2 U	9.76 U			11.1 U
1,2,3,4,7,8,9-HPCDF	1613B	pg/L	10.4 U		10.2 U			9.89 U		10.2 U	9.76 U			11.1 U
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	1613B	pg/L	10.4 U		10.2 U			9.89 U		10.2 U	9.76 U			11.1 U
1,2,3,4,7,8-HXCDF	1613B	pg/L	10.4 U		10.2 U			9.89 U		10.2 U	9.76 U			11.1 U
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	1613B	pg/L	10.4 U		10.2 U			9.89 U		10.2 U	9.76 U			11.1 U
1,2,3,6,7,8-HXCDF	1613B	pg/L	10.4 U		10.2 U			9.89 U		10.2 U	9.76 U			11.1 U
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	1613B	pg/L	10.4 U		10.2 U			9.89 U		10.2 U	9.76 U			11.1 U
1,2,3,7,8-HXCDF	1613B	pg/L	10.4 U		10.2 U			9.89 U		10.2 U	9.76 U			11.1 U
1,2,3,7,8-Pentachlorodibenzofuran	1613B	pg/L	10.4 U		10.2 U			0.906 J		10.2 U	9.76 U			11.1 U
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	1613B	pg/L	10.4 U		10.2 U			9.89 U		0.407 J	9.76 U			11.1 U
1,2,3-Trichlorobenzene	8260B	µg/L								1 U				
1,2,3-Trichloropropane	8260B	µg/L								2 U				
1,2,4-Trichlorobenzene	8260B	µg/L								1 U				
1,2,4-Trimethylbenzene	8260B	µg/L								1 U				
1,2-Dibromo-3-chloropropane	8260B	µg/L								2 U				
1,2-Dibromoethane	8260B	µg/L								1 U				
1,2-Dichlorobenzene	8260B	µg/L								1 U				
1,2-Dichloroethane	8260B	µg/L								1 U				
1,2-Dichloropropane	8260B	µg/L								1 U				
1,3,5-Trimethylbenzene	8260B	µg/L								1 U				
1,3-Dichlorobenzene	8260B	µg/L								1 U				
1,3-Dichloropropane	8260B	µg/L								1 U				
1,4-Dichlorobenzene	8260B	µg/L								1 U				
1,4-Dioxane	8260B SIM	µg/L								2 U				
1-Chlorohexane	8260B	µg/L								1 U				
1-Methylnaphthalene	8270C SIM	µg/L	0.22 U		0.22 U			0.2 U		0.21 U	0.2 U			0.2 U
2,2-Dichloropropane	8260B	µg/L								1 U				
2,2-Dichloro-Propionic Acid	8151A	µg/L								0.8 U				
2,3,4,6,7,8-HXCDF	1613B	pg/L	10.4 U		10.2 U			9.89 U		10.2 U	9.76 U			11.1 U
2,3,4,7,8-PECDF	1613B	pg/L	10.4 U		10.2 U			9.89 U		10.2 U	9.76 U			11.1 U
2,3,7,8-TCDD	1613B	pg/L	2.08 U		2.03 U			1.98 U		2.03 U	1.95 U			2.22 U
2,3,7,8-Tetrachlorodibenzofuran	1613B	pg/L	2.08 U		2.03 U			0.379 J		2.03 U	1.95 U			0.32 J
2,4,5-T	8151A	µg/L								0.8 U				
2,4-D	8151A	µg/L								0.8 U				
2,4-DB	8151A	µg/L								0.8 U				
2-Butanone (MEK)	8260B	µg/L								10 U				
2-Chloro-1,1,1-trifluoroethane	8260B	µg/L								1 U				
2-Chloroethyl Vinyl Ether	8260B	µg/L								2 U				
2-Chlorotoluene	8260B	µg/L								1 U				
2-Hexanone	8260B	µg/L								10 U				
2-Methylnaphthalene	8270C SIM	µg/L	0.22 U		0.22 U			0.2 U		0.21 U	0.2 U			0.2 U
2-Phenylbutane	8260B	µg/L								1 U				
2-Propanol	8015B	µg/L			1000 U					1000 U	1000 U			1000 U
4,4'-DDD	8081A	µg/L								0.11 U	0.1 U			
4,4'-DDE	8081A	µg/L								0.11 U	0.1 U			
4,4'-DDT	8081A	µg/L								0.11 U	0.1 U			
4-Chlorotoluene	8260B	µg/L								1 U				
4-Methyl-2-pentanone (MIBK)	8260B	µg/L								10 U				
Acenaphthene	8270C SIM	µg/L	0.22 U		0.22 U			0.2 U		0.21 U	0.2 U			0.2 U
Acenaphthylene	8270C SIM	µg/L	0.22 U		0.22 U			0.2 U		0.21 U	0.2 U			0.2 U
Acetone	8260B	µg/L								10 U				
Acrolein	8260B	µg/L								10 U				
Acrylonitrile	8260B	µg/L								10 U				
Aldrin	8081A	µg/L								0.11 U	0.1 U			
Alpha-Bhc	8081A	µg/L								0.11 U	0.1 U			
Aluminum	6020	mg/L	0.1 U		0.044 J			0.0208 J		0.0421 J	0.1 U			0.1 U
Aluminum	6020A	mg/L												
Anthracene	8270C SIM	µg/L	0.22 U		0.22 U			0.2 U		0.21 U	0.2 U			0.2 U
Antimony	6020	mg/L	0.001 U		0.001 U			0.001 U		0.001 U	0.001 U			0.001 U
Antimony	6020A	mg/L												
Aroclor 1016	8082	µg/L	1 U		1.1 U			1.1 U		1.1 U	1 U			1 U
Aroclor 1221	8082	µg/L	1 U		1.1 U			1.1 U		1.1 U	1 U			1 U
Aroclor 1232	8082	µg/L	1 U		1.1 U			1.1 U		1.1 U	1 U			1 U
Aroclor 1242	8082	µg/L	1 U		1.1 U			1.1 U		1.1 U	1 U			1 U
Aroclor 1248	8082	µg/L	1 U		1.1 U			1.1 U		1.1 U	1 U			1 U
Aroclor 1254	8082	µg/L	1 U		1.1 U			1.1 U		1.1 U	1 U			1 U
Aroclor 1260	8082	µg/L	1 U		1.1 U			1.1 U		1.1 U	1 U			1 U
Aroclor 1262	8082	µg/L	1 U		1.1 U			1.1 U		1.1 U	1 U			1 U
Aroclor 1268	8082	µg/L	1 U		1.1 U			1.1 U		1.1 U	1 U			1 U
Aroclor 5432	8082	µg/L	2 U		2.2 U			2.1 U		2.1 U	2.1 U			2 U
Aroclor 5442	8082	µg/L	2 U		2.2 U			2.1 U		2.1 U	2.1 U			2 U
Aroclor 5460	8082	µg/L	2 U		2.2 U			2.1 U		2.1 U	2.1 U			2 U
Arsenic	6020	mg/L	0.001 U		0.001 U			0.001 U		0.001 U	0.001 U			0.001 U
Arsenic	6020A	mg/L												
Azobenzene	8270C SIM	µg/L	1.1 U		1.1 U			1 U		1.1 U	1 U			1 U
Barium	6020	mg/L	0.000878 J		0.001 U			0.001 U		0.001 U	0.001 U			0.001 U
Barium	6020A	mg/L												
Benzene	8260B	µg/L								1 U				
Benzo(a)anthracene	8270C SIM	µg/L	0.22 U		0.22 U			0.2 U		0.21 U	0.2 U			0.2 U
Benzo(a)pyrene	8270C SIM	µg/L	0.22 U		0.22 U			0.2 U		0.21 U	0.2 U			0.2 U
Benzo(b)fluoranthene	8270C SIM	µg/L	0.22 U		0.22 U			0.2 U		0.21 U	0.2 U			0.2 U
Benzo(c)pyrene	8270C SIM	µg/L	0.22 U		0.22 U			0.2 U		0.21 U	0.2 U			0.2 U
Benzo(g,h,i)perylene	8270C SIM	µg/L	0.22 U		0.22 U			0.2 U		0.21 U	0.2 U			0.2 U
Benzo(k)fluoranthene	8270C SIM	µg/L	0.22 U		0.22 U			0.2 U		0.21 U	0.2 U			0.2 U
Beryllium	6020	mg/L	0.001 U		0.001 U			0.001 U		0.001 U	0.001 U			0.001 U
Beryllium	6020A	mg/L												
Beta-Bhc	8081A	µg/L								0.11 U	0.1 U			
Boron	6020	mg/L	0.01 U		0.01 U			0.01 U		0.00572 J	0.00549 J			0.00535 J
Boron	6020A	mg/L												
Bromobenzene	8260B	µg/L								1 U				
Bromochloromethane	8260B	µg/L								1 U				
Bromodichloromethane	8260B	µg/L								1 U				
Bromoform	8260B	µg/L								1 U				
Bromomethane	8260B	µg/L								1 U				
Cadmium	6020	mg/L	0.001 U		0.001 U			0.001 U		0.001 U	0.001 U			0.001 U
Cadmium	6020A	mg/L												
Calcium	6020	mg/L	0.0461 J		0.0367 J			0.0374 J		0.1 U	0.1 U			0.0269 J
Calcium	6020A	mg/L												
Carbon Disulfide	8260B	µg/L								1 U				
Carbon Tetrachloride	8260B	µg/L								1 U				
Chlordane (Technical)	8081A	µg/L								1.1 U	1 U			
Chlorobenzene	8260B	µg/L								1 U				
Chloroethane	8260B	µg/L								1 U				
Chloroform	8260B	µg/L								1 U				
Chloromethane	8260B	µg/L								1 U				
Chlorotrifluoroethylene	8260B	µg/L								1 U				
Chromium	6020	mg/L	0.001 U		0.001 U			0.001 U		0.001 U	0.001 U			0.001 U
Chromium	6020A	mg/L												
Chromium (Hexavalent Compounds)	7199	µg/L	0.2 U		0.2 U			0.2 U		0.2 U	0.2 U			0.2 U
Chrysene	8270C SIM	µg/L	0.22 U		0.22 U		</							

Table C2 - Subarea 5C - Equipment Rinsate Samples

Analyte	Sample Name:		EB-041912		EB-042612		EB-050312		EB-051012		EB-052412		EB-053012		
	Location:		5C_DG-EB		5C_DG-EB		5C_DG-EB		5C_DG-EB		5C_DG-EB		5C_DG-EB		
	Sample Date:		04/19/2012		04/26/2012		05/03/2012		05/10/2012		05/24/2012		05/30/2012		
Sample Type		EB		EB		EB		EB		EB		EB			
Units	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	
EFH (C12-C14)	8015B EFH	mg/L	0.11	U			0.098	U			0.11	U			
EFH (C12-C14)	8015BEFH	mg/L													
EFH (C15-C20)	8015B EFH	mg/L	0.11	U		0.1	U				0.11	U		0.11	U
EFH (C15-C20)	8015BEFH	mg/L													
EFH (C21-C30)	8015B EFH	mg/L	0.11	U		0.1	U				0.11	U		0.11	U
EFH (C21-C30)	8015BEFH	mg/L													
EFH (C30-C40)	8015B EFH	mg/L	0.11	U		0.1	U				0.11	U		0.11	U
EFH (C30-C40)	8015BEFH	mg/L													
EFH (C8-C11)	8015B EFH	mg/L	0.11	U		0.1	U				0.11	U		0.11	U
EFH (C8-C11)	8015BEFH	mg/L													
Endosulfan I	8081A	µg/L								0.11	U		0.1	U	
Endosulfan II	8081A	µg/L								0.11	U		0.1	U	
Endosulfan Sulfate	8081A	µg/L								0.11	U		0.1	U	
Endrin	8081A	µg/L								0.11	U		0.1	U	
Endrin Aldehyde	8081A	µg/L								0.11	U		0.1	U	
Endrin Ketone	8081A	µg/L								0.11	U		0.1	U	
Ethanol	8015B	µg/L				1000	U			1000	U		1000	U	
Ethylbenzene	8260B	µg/L								0.44	J				
Ethylene Glycol	8015M	mg/L				10	U				10	U		10	U
Fluoranthene	8270C SIM	µg/L	0.22	U		0.22	U			0.2	U		0.21	U	
Fluorene	8270C SIM	µg/L	0.22	U		0.22	U			0.2	U		0.21	U	
Formaldehyde	8315A	µg/L	50	U		50	U			19	J		50	U	
Formaldehyde	SW8315A	µg/L											50	U	
Gamma-Bhc (Lindane)	8081A	µg/L									0.11	U		0.1	U
Gasoline Range Organics (C5-C12)	8015B GRO	µg/L								42	J		50	U	
Heptachlor	8081A	µg/L									0.11	U		0.1	U
Heptachlor Epoxide	8081A	µg/L									0.11	U		0.1	U
Hexachloro-1,3-butadiene	8260B	µg/L								1	U				
Indeno(1,2,3-cd)pyrene	8270C SIM	µg/L	0.22	U		0.22	U			0.2	U		0.21	U	
Iron	6020	mg/L	0.1	U		0.1	U			0.1	U		0.1	U	
Iron	6020A	mg/L													
Isopropylbenzene	8260B	µg/L								1	U				
Lead	6020	mg/L	0.001	U		0.001	U			0.001	U		0.001	U	
Lead	6020A	mg/L													
Lithium	6020	mg/L	0.002	U		0.002	U			0.002	U		0.002	U	
Lithium	6020A	mg/L													
m,p-Xylene	8260B	µg/L								0.59	J				
Magnesium	6020	mg/L	0.1	U		0.1	U			0.1	U		0.1	U	
Magnesium	6020A	mg/L													
Manganese	6020	mg/L	0.001	U		0.001	U			0.001	U		0.001	U	
Manganese	6020A	mg/L													
MCPA	8151A	µg/L									100	U			
MCCP	8151A	µg/L									100	U			
Methanol	8015B	µg/L				1000	U				1000	U		1000	U
Methoxychlor	8081A	µg/L									1.1	U		1	U
Methyl Iodide	8260B	µg/L								1	U				
Methyl Tert-Butyl Ether	8260B	µg/L								1	U				
Methylene Chloride	8260B	µg/L								3.5					
Mirex	8081A	µg/L								0.11	U		0.1	U	
Molybdenum	6020	mg/L	0.002	U		0.002	U			0.002	U		0.002	U	
Molybdenum	6020A	mg/L													
Morpholine	8270C SIM	µg/L													
Naphthalene	8270C SIM	µg/L	0.22	U		0.22	U			0.2	U		0.15	J	
n-Butylbenzene	8260B	µg/L								1	U				
Nickel	6020	mg/L	0.001	U		0.001	U			0.000267	J		0.001	U	
Nickel	6020A	mg/L													
N-Nitrosodimethylamine	8270C SIM	µg/L	1.1	U		1.1	U			1	U		1.1	U	
n-Propylbenzene	8260B	µg/L								1	U				
OCDD	1613B	pg/L	20.8	U		20.3	U			19.8	U		20.3	U	
OCDF	1613B	pg/L	20.8	U		20.3	U			19.8	U		20.3	U	
o-Xylene	8260B	µg/L								0.25	J				
Perchlorate	314	µg/L								2	U				
Perchlorate	6850	µg/L	0.2	U						0.2	U		0.2	U	
Phenanthrene	8270C SIM	µg/L	0.22	U		0.22	U			0.2	U		0.21	U	
Phosphorus	6020	mg/L	0.05	U		0.05	U			0.05	U		0.05	U	
Phosphorus	6020A	mg/L													
Potassium	6020	mg/L	0.1	U		0.1	U			0.1	U		0.1	U	
Potassium	6020A	mg/L													
Propylene Glycol	8015M	mg/L				10	U				10	U		10	U
Pyrene	8270C SIM	µg/L	0.22	U		0.22	U			0.2	U		0.21	U	
Selenium	6020	mg/L	0.001	U		0.001	U			0.001	U		0.001	U	
Selenium	6020A	mg/L													
Silver	6020	mg/L	0.001	U		0.001	U			0.001	U		0.001	U	
Silver	6020A	mg/L													
Silvex (2,4,5-TP)	8151A	µg/L								0.8	U				
Sodium	6020	mg/L	0.1	U		0.0732	J			0.1	U		0.0575	J	
Sodium	6020A	mg/L													
Strontium	6020	mg/L	0.002	U		0.002	U			0.002	U		0.002	U	
Strontium	6020A	mg/L													
Styrene	8260B	µg/L								1	U				
Technical Toxaphene	8081A	µg/L								2.1	U		2.1	U	
tert-Butyl ethyl ether	8260B	µg/L								1	U				
tert-Butylbenzene	8260B	µg/L								1	U				
Tertiary amyl methyl ether	8260B	µg/L								1	U				
Tertiary butyl alcohol	8260B	µg/L								10	U				
Tetrachloroethene	8260B	µg/L								1	U				
Thallium	6020	mg/L	0.001	U		0.001	U			0.001	U		0.001	U	
Thallium	6020A	mg/L													
Tin	6020	mg/L	0.001	U		0.001	U			0.001	U		0.001	U	
Tin	6020A	mg/L													
Titanium	6020	mg/L	0.002	U		0.002	U			0.002	U		0.002	U	
Titanium	6020A	mg/L													
Toluene	8260B	µg/L								3					
Total EFH (C8-C40)	8015BEFH	mg/L													
trans-1,2-Dichloroethene	8260B	µg/L								1	U				
trans-1,3-Dichloropropene	8260B	µg/L								1	U				
Trichloroethene	8260B	µg/L								1	U				
Trichlorofluoromethane	8260B	µg/L								1	U				
Vanadium	6020	mg/L	0.001	U		0.001	U			0.001	U		0.001	U	
Vanadium	6020A	mg/L													
Vinyl Acetate	8260B	µg/L								1	U				
Vinyl Chloride	8260B	µg/L								1	U				
Zinc	6020	mg/L	0.02	U		0.02	U			0.02	U		0.02	U	
Zinc	6020A	mg/L													
Zirconium	6020	mg/L	0.005	U		0.005	U			0.005	U		0.005	U	
Zirconium	6020A	mg/L													

µg/L - microgram per liter  
mg/L - milligram per liter  
ng/L - nanogram per liter  
pg/L - picogram per liter  
U - Compound not detected above the reporting limit  
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM.  
The validators used the value with the lowest detection limit for validation purposes.

Table C2 - Subarea 5C - Equipment Rinsate Samples

Sample Name:		EB-053112	EB-060112	EB-061412	EB-062812	EB-071212	EB1-051712							
Location:		5C_DG-EB	5C_DG-EB	5C_DG-EB	5C_DG-EB	5C_DG-EB	5C_DG-EB							
Sample Date:		05/31/2012	06/01/2012	06/14/2012	06/28/2012	07/12/2012	05/17/2012							
Sample Type		EB	EB	EB	EB	EB	EB							
Analyte	Analytic Method	Units	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier
1,1,1,2-Tetrachloroethane	8260B	µg/L			1 U									
1,1,1-Trichloroethane	8260B	µg/L			1 U									
1,1,2,2-Tetrachloroethane	8260B	µg/L			1 U									
1,1,2-Trichloro-1,2,2-trifluoroethane	8260B	µg/L			1 U									
1,1,2-Trichloroethane	8260B	µg/L			1 U									
1,1'-Biphenyl	8270C SIM	µg/L	2 U			2.1 U			2 U		2.1 U			2.2 U
1,1-Dichloroethane	8260B	µg/L			1 U									
1,1-Dichloroethane	8260B	µg/L			1 U									
1,1-Dichloropropene	8260B	µg/L			1 U									
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	1613B	pg/L	10.6 U			10.2 U			9.7 U		10.3 U			10.7 U
1,2,3,4,6,7,8-HPCDF	1613B	pg/L	10.6 U			10.2 U			9.7 U		10.3 U			10.7 U
1,2,3,4,7,8,9-HPCDF	1613B	pg/L	10.6 U			10.2 U			9.7 U		10.3 U			10.7 U
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	1613B	pg/L	10.6 U			10.2 U			9.7 U		10.3 U			10.7 U
1,2,3,4,7,8-HXCDF	1613B	pg/L	10.6 U			10.2 U			9.7 U		10.3 U			10.7 U
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	1613B	pg/L	10.6 U			10.2 U			9.7 U		10.3 U			10.7 U
1,2,3,6,7,8-HXCDF	1613B	pg/L	10.6 U			10.2 U			9.7 U		10.3 U			10.7 U
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	1613B	pg/L	10.6 U			10.2 U			9.7 U		10.3 U		0.312 J	10.7 U
1,2,3,7,8-HXCDF	1613B	pg/L	10.6 U			10.2 U			0.137 J		10.3 U			10.7 U
1,2,3,7,8-Pentachlorodibenzofuran	1613B	pg/L	0.258 J			10.2 U			9.7 U		10.3 U			10.7 U
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	1613B	pg/L	10.6 U			10.2 U			0.484 J		10.3 U			10.7 U
1,2,3-Trichlorobenzene	8260B	µg/L			1 U									
1,2,3-Trichloropropane	8260B	µg/L			2 U									
1,2,4-Trichlorobenzene	8260B	µg/L			1 U									
1,2,4-Trimethylbenzene	8260B	µg/L			1 U									
1,2-Dibromo-3-chloropropane	8260B	µg/L			2 U									
1,2-Dibromoethane	8260B	µg/L			1 U									
1,2-Dichlorobenzene	8260B	µg/L			1 U									
1,2-Dichloroethane	8260B	µg/L			1 U									
1,2-Dichloropropane	8260B	µg/L			1 U									
1,3,5-Trimethylbenzene	8260B	µg/L			1 U									
1,3-Dichlorobenzene	8260B	µg/L			1 U									
1,3-Dichloropropane	8260B	µg/L			1 U									
1,4-Dichlorobenzene	8260B	µg/L			1 U									
1,4-Dioxane	8260B SIM	µg/L			2 U									
1-Chlorohexane	8260B	µg/L			1 U									
1-Methylnaphthalene	8270C SIM	µg/L	0.2 U			0.21 U			0.2 U		0.21 U			0.22 U
2,2-Dichloropropane	8260B	µg/L			1 U									
2,2-Dichlor-Propionic Acid	8151A	µg/L												
2,3,4,6,7,8-HXCDF	1613B	pg/L	10.6 U			10.2 U			9.7 U		10.3 U			10.7 U
2,3,4,7,8-PECDF	1613B	pg/L	10.6 U			10.2 U			9.7 U		10.3 U			10.7 U
2,3,7,8-TCDD	1613B	pg/L	2.12 U			2.04 U			1.94 U		2.05 U			2.14 U
2,3,7,8-Tetrachlorodibenzofuran	1613B	pg/L	0.456 J			2.04 U			1.94 U		2.05 U			2.14 U
2,4,5-T	8151A	µg/L												
2,4-D	8151A	µg/L												
2,4-DB	8151A	µg/L												
2-Butanone (MEK)	8260B	µg/L			10 U									
2-Chloro-1,1,1-trifluoroethane	8260B	µg/L			1 U									
2-Chloroethyl Vinyl Ether	8260B	µg/L			2 U									
2-Chlorotoluene	8260B	µg/L			1 U									
2-Hexanone	8260B	µg/L			10 U									
2-Methylnaphthalene	8270C SIM	µg/L	0.2 U			0.21 U			0.2 U		0.21 U			0.22 U
2-Phenylbutane	8260B	µg/L			1 U									
2-Propanol	8015B	µg/L	1000 U											
4,4'-DDD	8081A	µg/L												
4,4'-DDE	8081A	µg/L												
4,4'-DDT	8081A	µg/L												
4-Chlorotoluene	8260B	µg/L			1 U									
4-Methyl-2-pentanone (MIBK)	8260B	µg/L			10 U									
Acenaphthene	8270C SIM	µg/L	0.2 U			0.21 U			0.2 U		0.21 U			0.22 U
Acenaphthylene	8270C SIM	µg/L	0.2 U			0.21 U			0.2 U		0.21 U			0.22 U
Acetone	8260B	µg/L			10 U									
Acrolein	8260B	µg/L			10 U									
Acrylonitrile	8260B	µg/L			10 U									
Aldrin	8081A	µg/L												
Alpha-Bhc	8081A	µg/L												
Aluminum	6020	mg/L	0.0374 J			0.1 U			0.1 U					0.0627 J
Aluminum	6020A	mg/L									0.045			
Anthracene	8270C SIM	µg/L	0.2 U			0.21 U			0.2 U		0.21 U			0.22 U
Antimony	6020	mg/L	0.001 U			0.001 U			0.001 U					0.001 U
Antimony	6020A	mg/L									0.001			
Aroclor 1016	8082	µg/L	1 U			1 U			0.98 U		0.95			1.1 U
Aroclor 1221	8082	µg/L	1 U			1 U			0.98 U		0.95			1.1 U
Aroclor 1232	8082	µg/L	1 U			1 U			0.98 U		0.95			1.1 U
Aroclor 1242	8082	µg/L	1 U			1 U			0.98 U		0.95			1.1 U
Aroclor 1248	8082	µg/L	1 U			1 U			0.98 U		0.95			1.1 U
Aroclor 1254	8082	µg/L	1 U			1 U			0.98 U		0.95			1.1 U
Aroclor 1260	8082	µg/L	1 U			1 U			0.98 U		0.95			1.1 U
Aroclor 1262	8082	µg/L	1 U			1 U			0.98 U		0.95			1.1 U
Aroclor 1268	8082	µg/L	1 U			1 U			0.98 U		0.95			1.1 U
Aroclor 5432	8082	µg/L	2.1 U			2 U			2 U		1.9			2.2 U
Aroclor 5442	8082	µg/L	2.1 U			2 U			2 U		1.9			2.2 U
Aroclor 5460	8082	µg/L	2.1 U			2 U			2 U		1.9			2.2 U
Arsenic	6020	mg/L	0.001 U			0.001 U			0.001 U					0.001 U
Arsenic	6020A	mg/L									0.001			
Azobenzene	8270C SIM	µg/L	0.99 U			1 U			1 U		1.1			1.1 U
Barium	6020	mg/L	0.000502 J			0.001 U			0.001 U					0.001 U
Barium	6020A	mg/L									0.001			
Benzene	8260B	µg/L			1 U									
Benzo(a)anthracene	8270C SIM	µg/L	0.2 U			0.21 U			0.2 U		0.21			0.22 U
Benzo(a)pyrene	8270C SIM	µg/L	0.2 U			0.21 U			0.2 U		0.21			0.22 U
Benzo(b)fluoranthene	8270C SIM	µg/L	0.2 U			0.21 U			0.2 U		0.21			0.22 U
Benzo(e)pyrene	8270C SIM	µg/L	0.2 U			0.21 U			0.2 U		0.21			0.22 U
Benzo(g,h,i)perylene	8270C SIM	µg/L	0.2 U			0.21 U			0.2 U		0.21			0.22 U
Benzo(k)fluoranthene	8270C SIM	µg/L	0.2 U			0.21 U			0.2 U		0.21			0.22 U
Beryllium	6020	mg/L	0.001 U			0.001 U			0.001 U					0.001 U
Beryllium	6020A	mg/L									0.001			
Beta-Bhc	8081A	µg/L												
Boron	6020	mg/L	0.00549 J			0.00551 J			0.006 J					0.00549 J
Boron	6020A	mg/L									0.00535			
Bromobenzene	8260B	µg/L			1 U									
Bromochloromethane	8260B	µg/L			1 U									
Bromodichloromethane	8260B	µg/L			1 U									
Bromoform	8260B	µg/L			1 U									
Bromomethane	8260B	µg/L			1 U									
Cadmium	6020	mg/L	0.001 U			0.001 U			0.001 U					0.001 U
Cadmium	6020A	mg/L									0.001			
Calcium	6020	mg/L	0.1 U			0.1 U			0.1 U					0.1 U
Calcium	6020A	mg/L									0.0367			
Carbon Disulfide	8260B	µg/L			1 U									
Carbon Tetrachloride	8260B	µg/L			1 U									
Chlordane (Technical)	8081A	µg/L												
Chlorobenzene	8260B	µg/L			1 U									
Chloroethane	8260B	µg/L			1 U									
Chloroform	8260B	µg/L			1 U									
Chloromethane	8260B	µg/L			1 U									
Chlorotrifluoroethylene	8260B	µg/L			1 U									
Chromium	6020	mg/L	0.001 U			0.001 U			0.001 U					0.001 U
Chromium	6020A	mg/L									0.001			
Chromium (Hexavalent Compounds)	7199	µg/L	0.2 U			0.2 U			0.2 U		0.2			0.2 U
Chrysene	8270C SIM	µg/L	0.2 U			0.21 U			0.2 U		0.21			0.22 U
cis-1,2-Dichloroethane	8260B	µg/L			1 U									
cis-1,3-Dichloropropene	8260B	µg/L			1 U									
Cobalt	6020	mg/L	0.001 U			0.001								

Table C2 - Subarea 5C - Equipment Rinsate Samples

Analyte	Analytic Method	Units	EB-053112 5C_DG-EB 05/31/2012 EB		EB-060112 5C_DG-EB 06/01/2012 EB		EB-061412 5C_DG-EB 06/14/2012 EB		EB-062812 5C_DG-EB 06/28/2012 EB		EB-071212 5C_DG-EB 07/12/2012 EB		EB1-051712 5C_DG-EB 05/17/2012 EB		
			Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	
EFH (C12-C14)	8015B EFH	mg/L	0.1	U			0.097	U	0.099	U				0.1	U
EFH (C12-C14)	8015BEFH	mg/L									0.11				
EFH (C15-C20)	8015B EFH	mg/L	0.1	U			0.097	U	0.099	U				0.1	U
EFH (C15-C20)	8015BEFH	mg/L									0.11				
EFH (C21-C30)	8015B EFH	mg/L	0.1	U			0.097	U	0.099	U				0.1	U
EFH (C21-C30)	8015BEFH	mg/L									0.11				
EFH (C30-C40)	8015B EFH	mg/L	0.1	U			0.097	U	0.099	U				0.1	U
EFH (C30-C40)	8015BEFH	mg/L									0.11				
EFH (C8-C11)	8015B EFH	mg/L	0.1	U			0.097	U	0.099	U				0.1	U
EFH (C8-C11)	8015BEFH	mg/L									0.11				
Endosulfan I	8081A	µg/L													
Endosulfan II	8081A	µg/L													
Endosulfan Sulfate	8081A	µg/L													
Endrin	8081A	µg/L													
Endrin Aldehyde	8081A	µg/L													
Endrin Ketone	8081A	µg/L													
Ethanol	8015B	µg/L	1000	U											
Ethylbenzene	8260B	µg/L				1	U								
Ethylene Glycol	8015M	mg/L	10	U											
Fluoranthene	8270C SIM	µg/L	0.2	U			0.21	U	0.2	U	0.21			0.22	U
Fluorene	8270C SIM	µg/L	0.2	U			0.21	U	0.2	U	0.21			0.22	U
Formaldehyde	8315A	µg/L							50	U				50	U
Formaldehyde	SW8315A	µg/L									10				
Gamma-Bhc (Lindane)	8081A	µg/L													
Gasoline Range Organics (C5-C12)	8015B GRO	µg/L	50	U			51		17	J	22			50	U
Heptachlor	8081A	µg/L													
Heptachlor Epoxide	8081A	µg/L													
Hexachloro-1,3-butadiene	8260B	µg/L				1	U								
Indeno(1,2,3-cd)pyrene	8270C SIM	µg/L	0.2	U			0.21	U	0.2	U	0.21			0.22	U
Iron	6020	mg/L	0.1	U			0.1	U	0.1	U				0.1	U
Iron	6020A	mg/L									0.0119				
Isopropylbenzene	8260B	µg/L				1	U								
Lead	6020	mg/L	0.001	U			0.001	U	0.001	U				0.001	U
Lead	6020A	mg/L									0.001				
Lithium	6020	mg/L	0.002	U			0.002	U	0.002	U				0.002	U
Lithium	6020A	mg/L									0.002				
m,p-Xylene	8260B	µg/L				2	U								
Magnesium	6020	mg/L	0.1	U			0.1	U	0.1	U				0.1	U
Magnesium	6020A	mg/L									0.1				
Manganese	6020	mg/L	0.000249	J			0.001	U	0.001	U				0.001	U
Manganese	6020A	mg/L									0.000308				
MCPA	8151A	µg/L													
MCCP	8151A	µg/L													
Methanol	8015B	µg/L	1000	U											
Methoxychlor	8081A	µg/L													
Methyl Iodide	8260B	µg/L				1	U								
Methyl Tert-Butyl Ether	8260B	µg/L				1	U								
Methylene Chloride	8260B	µg/L				1.8									
Mirex	8081A	µg/L													
Molybdenum	6020	mg/L	0.002	U			0.002	U	0.002	U				0.002	U
Molybdenum	6020A	mg/L									0.002				
Morpholine	8270C SIM	µg/L									420				
Naphthalene	8270C SIM	µg/L	0.13	J			0.21	U	0.2	U	0.21			0.12	J
n-Butylbenzene	8260B	µg/L				1	U								
Nickel	6020	mg/L	0.001	U			0.001	U	0.001	U				0.000401	J
Nickel	6020A	mg/L									0.000277				
N-Nitrosodimethylamine	8270C SIM	µg/L	0.99	U			1	U	1	U	1.1			1.1	U
n-Propylbenzene	8260B	µg/L				1	U								
OCDD	1613B	pg/L	21.2	U			20.4	U	19.4	U	20.5	U		21.4	U
OCDF	1613B	pg/L	21.2	U			20.4	U	19.4	U	20.5	U		21.4	U
o-Xylene	8260B	µg/L				1	U								
Perchlorate	314	µg/L													
Perchlorate	6850	µg/L	0.2	U			0.2	U	0.2	U	0.2			0.2	U
Phenanthrene	8270C SIM	µg/L	0.2	U			0.21	U	0.2	U	0.21			0.22	U
Phosphorus	6020	mg/L	0.05	U			0.05	U	0.05	U				0.05	U
Phosphorus	6020A	mg/L									0.05				
Potassium	6020	mg/L	0.1	U			0.1	U	0.1	U				0.0204	J
Potassium	6020A	mg/L									0.1				
Propylene Glycol	8015M	mg/L	10	U											
Pyrene	8270C SIM	µg/L	0.2	U			0.21	U	0.2	U	0.21			0.22	U
Selenium	6020	mg/L	0.001	U			0.001	U	0.001	U				0.001	U
Selenium	6020A	mg/L									0.001				
Silver	6020	mg/L	0.001	U			0.001	U	0.001	U				0.001	U
Silver	6020A	mg/L									0.001				
Silvex (2,4,5-TP)	8151A	µg/L													
Sodium	6020	mg/L	0.0526	J			0.1	U	0.1	U				0.0965	J
Sodium	6020A	mg/L									0.1				
Strontium	6020	mg/L	0.002	U			0.002	U	0.002	U				0.002	U
Strontium	6020A	mg/L									0.002				
Styrene	8260B	µg/L				1	U								
Technical Toxaphene	8081A	µg/L													
tert-Butyl ethyl ether	8260B	µg/L				1	U								
tert-Butylbenzene	8260B	µg/L				1	U								
Tertiary amyl methyl ether	8260B	µg/L				1	U								
Tertiary butyl alcohol	8260B	µg/L				10	U								
Tetrachloroethene	8260B	µg/L				1	U								
Thallium	6020	mg/L	0.001	U			0.001	U	0.001	U				0.001	U
Thallium	6020A	mg/L									0.001				
Tin	6020	mg/L	0.001	U			0.001	U	0.001	U				0.001	U
Tin	6020A	mg/L									0.001				
Titanium	6020	mg/L	0.002	U			0.002	U	0.002	U				0.002	U
Titanium	6020A	mg/L									0.002				
Toluene	8260B	µg/L				1	U								
Total EFH (C8-C40)	8015BEFH	mg/L									0.11				
trans-1,2-Dichloroethene	8260B	µg/L				1	U								
trans-1,3-Dichloropropene	8260B	µg/L				1	U								
Trichloroethene	8260B	µg/L				1	U								
Trichlorofluoromethane	8260B	µg/L				1	U								
Vanadium	6020	mg/L	0.001	U			0.001	U	0.001	U				0.001	U
Vanadium	6020A	mg/L									0.001				
Vinyl Acetate	8260B	µg/L				1	U								
Vinyl Chloride	8260B	µg/L				1	U								
Zinc	6020	mg/L	0.02	U			0.02	U	0.02	U				0.02	U
Zinc	6020A	mg/L									0.02				
Zirconium	6020	mg/L	0.005	U			0.005	U	0.005	U				0.005	U
Zirconium	6020A	mg/L									0.005				

ug/L - microgram per liter  
mg/L - milligram per liter  
ng/L - nanogram per liter  
pg/L - picogram per liter  
U - Compound not detected above the reporting limit  
(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM.  
The validators used the value with the lowest detection limit for validation purposes

Table C2 - Subarea 5C - Equipment Rinsate Samples

Analyte	Analytic Method	Units	Sample Name: EB1-060712 Location: 5C_DG-EB Sample Date: 06/07/2012 Sample Type: EB		EB1-062112 5C_DG-EB 06/21/2012 EB		EB2-051712 5C_DG-EB 05/17/2012 EB		EB2-060712 5C_DG-EB 06/07/2012 EB		EB2-062112 5C_DG-EB 06/21/2012 EB		EB-072612 EQUIPMENT BLANK 2012-07-26 EB	
			Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier
1,1,1,2-Tetrachloroethane	8260B	µg/L										1 U		
1,1,1-Trichloroethane	8260B	µg/L										1 U		
1,1,2,2-Tetrachloroethane	8260B	µg/L										1 U		
1,1,2-Trichloro-1,2,2-trifluoroethane	8260B	µg/L										1 U		
1,1,2-Trichloroethane	8260B	µg/L										1 U		
1,1'-Biphenyl	8270C SIM	µg/L	2.1 U				2.1 U			2.2 U		2.2 U		
1,1-Dichloroethane	8260B	µg/L										1 U		
1,1-Dichloroethene	8260B	µg/L										1 U		
1,1-Dichloropropene	8260B	µg/L										1 U		
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	1613B	pg/L	10.8 U				10.8 U					9.78 U		10.2 U
1,2,3,4,6,7,8-HPCDF	1613B	pg/L	10.8 U				10.8 U					9.78 U		10.2 U
1,2,3,4,7,8,9-HPCDF	1613B	pg/L	10.8 U				10.8 U					9.78 U		10.2 U
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	1613B	pg/L	10.8 U				10.8 U					9.78 U		0.779 J
1,2,3,4,7,8-HXCDF	1613B	pg/L	10.8 U				10.8 U					1.62 J		10.2 U
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	1613B	pg/L	10.8 U				10.8 U					9.78 U		10.2 U
1,2,3,6,7,8-HXCDF	1613B	pg/L	10.8 U				10.8 U					9.78 U		10.2 U
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	1613B	pg/L	10.8 U				10.8 U					9.78 U		10.2 U
1,2,3,7,8,9-HXCDF	1613B	pg/L	10.8 U				10.8 U					9.78 U		10.2 U
1,2,3,7,8-Pentachlorodibenzofuran	1613B	pg/L	0.333 J				10.8 U					0.596 J		10.2 U
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	1613B	pg/L	10.8 U				10.8 U					9.78 U		10.2 U
1,2,3-Trichlorobenzene	8260B	µg/L										1 U		
1,2,3-Trichloropropane	8260B	µg/L										2 U		
1,2,4-Trichlorobenzene	8260B	µg/L										1 U		
1,2,4-Trimethylbenzene	8260B	µg/L										1 U		
1,2-Dibromo-3-chloropropane	8260B	µg/L										2 U		
1,2-Dibromoethane	8260B	µg/L										1 U		
1,2-Dichlorobenzene	8260B	µg/L										1 U		
1,2-Dichloroethane	8260B	µg/L										1 U		
1,2-Dichloropropane	8260B	µg/L										1 U		
1,3,5-Trimethylbenzene	8260B	µg/L										1 U		
1,3-Dichlorobenzene	8260B	µg/L										1 U		
1,3-Dichloropropane	8260B	µg/L										1 U		
1,4-Dichlorobenzene	8260B	µg/L										1 U		
1,4-Dioxane	8260B SIM	µg/L										2 U		
1-Chlorohexane	8260B	µg/L										1 U		
1-Methylnaphthalene	8270C SIM	µg/L	0.21 U				0.21 U			0.22 U		0.22 U		
2,2-Dichloropropane	8260B	µg/L										1 U		
2,2-Dichlor-Propionic Acid	8151A	µg/L	0.8 U											
2,3,4,6,7,8-HXCDF	1613B	pg/L	10.8 U				10.8 U					9.78 U		0.785 J
2,3,4,7,8-PECDF	1613B	pg/L	10.8 U				10.8 U					9.78 U		10.2 U
2,3,7,8-TCDD	1613B	pg/L	2.16 U				2.17 U					1.96 U		2.05 U
2,3,7,8-Tetrachlorodibenzofuran	1613B	pg/L	2.16 U				0.375 J					1.31 J		2.05 U
2,4,5-T	8151A	µg/L	0.8 U											
2,4-D	8151A	µg/L	0.8 U											
2,4-DB	8151A	µg/L	0.8 U											
2-Butanone (MEK)	8260B	µg/L										10 U		
2-Chloro-1,1,1-trifluoroethane	8260B	µg/L										1 U		
2-Chloroethyl Vinyl Ether	8260B	µg/L										2 U		
2-Chlorotoluene	8260B	µg/L										1 U		
2-Hexanone	8260B	µg/L										10 U		
2-Methylnaphthalene	8270C SIM	µg/L	0.21 U				0.21 U			0.22 U		0.22 U		
2-Phenylbutane	8260B	µg/L										1 U		
2-Propanol	8015B	µg/L	1000 U							1000 U		1000 U		
4,4'-DDD	8081A	µg/L	0.099 U											
4,4'-DDE	8081A	µg/L	0.099 U											
4,4'-DDT	8081A	µg/L	0.099 U											
4-Chlorotoluene	8260B	µg/L										1 U		
4-Methyl-2-pentanone (MIBK)	8260B	µg/L										10 U		
Acenaphthene	8270C SIM	µg/L	0.21 U				0.21 U			0.22 U		0.22 U		
Acenaphthylene	8270C SIM	µg/L	0.21 U				0.21 U			0.22 U		0.22 U		
Acetone	8260B	µg/L										10 U		
Acrolein	8260B	µg/L										10 U		
Acrylonitrile	8260B	µg/L										10 U		
Aldrin	8081A	µg/L	0.099 U											
Alpha-Bhc	8081A	µg/L	0.099 U											
Aluminum	6020	mg/L	0.0449 J				0.0329 J			0.1 U		0.0723 J		
Aluminum	6020A	mg/L												
Anthracene	8270C SIM	µg/L	0.21 U				0.21 U			0.22 U		0.22 U		
Antimony	6020	mg/L	0.001 U				0.001 U			0.001 U		0.001 U		
Antimony	6020A	mg/L												
Aroclor 1016	8082	µg/L	0.99 U			1.1 U		1 U		1 U		0.93 U		
Aroclor 1221	8082	µg/L	0.99 U			1.1 U		1 U		1 U		0.93 U		
Aroclor 1232	8082	µg/L	0.99 U			1.1 U		1 U		1 U		0.93 U		
Aroclor 1242	8082	µg/L	0.99 U			1.1 U		1 U		1 U		0.93 U		
Aroclor 1248	8082	µg/L	0.99 U			1.1 U		1 U		1 U		0.93 U		
Aroclor 1254	8082	µg/L	0.99 U			1.1 U		1 U		1 U		0.93 U		
Aroclor 1260	8082	µg/L	0.99 U			1.1 U		1 U		1 U		0.93 U		
Aroclor 1262	8082	µg/L	0.99 U			1.1 U		1 U		1 U		0.93 U		
Aroclor 1268	8082	µg/L	0.99 U			1.1 U		1 U		1 U		0.93 U		
Aroclor 5432	8082	µg/L	2 U			2.1 U		2 U		2 U		1.9 U		
Aroclor 5442	8082	µg/L	2 U			2.1 U		2 U		2 U		1.9 U		
Aroclor 5460	8082	µg/L	2 U			2.1 U		2 U		2 U		1.9 U		
Arsenic	6020	mg/L	0.001 U				0.001 U			0.001 U		0.001 U		
Arsenic	6020A	mg/L												
Azobenzene	8270C SIM	µg/L	1 U				1 U			1.1 U		1.1 U		
Barium	6020	mg/L	0.001 U				0.001 U			0.000605 J		0.001 U		
Barium	6020A	mg/L												
Benzene	8260B	µg/L										1 U		
Benzo(a)anthracene	8270C SIM	µg/L	0.21 U				0.21 U			0.22 U		0.22 U		
Benzo(a)pyrene	8270C SIM	µg/L	0.21 U				0.21 U			0.22 U		0.22 U		
Benzo(b)fluoranthene	8270C SIM	µg/L	0.21 U				0.21 U			0.22 U		0.22 U		
Benzo(e)pyrene	8270C SIM	µg/L	0.21 U				0.21 U			0.22 U		0.22 U		
Benzo(g,h,i)perylene	8270C SIM	µg/L	0.21 U				0.21 U			0.22 U		0.22 U		
Benzo(k)fluoranthene	8270C SIM	µg/L	0.21 U				0.21 U			0.22 U		0.22 U		
Beryllium	6020	mg/L	0.001 U				0.001 U			0.001 U		0.001 U		
Beryllium	6020A	mg/L												
Beta-Bhc	8081A	µg/L	0.099 U											
Boron	6020	mg/L	0.00577 J				0.0057 J			0.00592 J		0.0056 J		
Boron	6020A	mg/L												
Bromobenzene	8260B	µg/L										1 U		
Bromochloromethane	8260B	µg/L										1 U		
Bromodichloromethane	8260B	µg/L										1 U		
Bromoform	8260B	µg/L										1 U		
Bromomethane	8260B	µg/L										1 U		
Cadmium	6020	mg/L	0.001 U				0.001 U			0.001 U		0.001 U		
Cadmium	6020A	mg/L												
Calcium	6020	mg/L	0.0314 J				0.1 U			0.0496 J		0.0304 J		
Calcium	6020A	mg/L												
Carbon Disulfide	8260B	µg/L										1 U		
Carbon Tetrachloride	8260B	µg/L										1 U		
Chlordane (Technical)	8081A	µg/L	0.99 U											
Chlorobenzene	8260B	µg/L										1 U		
Chloroethane	8260B	µg/L										1 U		
Chloroform	8260B	µg/L										1 U		
Chloromethane	8260B	µg/L										1 U		
Chlorotrifluoroethylene	8260B	µg/L										1 U		
Chromium	6020	mg/L	0.001 U				0.001 U			0.001 U		0.001 U		
Chromium	6020A	mg/L												
Chromium (Hexavalent Compounds)	7199	µg/L	0.2 U									0.2 U		
Chrysene	8270C SIM	µg/L	0.21 U				0.21 U			0.22 U		0.22 U		
cis-1,2-Dichloroethene	8260B	µg/L										1 U		
cis-1,3-Dichloropropene	8260B	µg/L										1 U		
Cobalt	6020	mg/L	0.001 U				0.001 U			0.001 U		0.001 U		
Cobalt	6020A	mg/L												
Copper	6020	mg/L	0.0019				0.00096 J		</					

Table C2 - Subarea 5C - Equipment Rinsate Samples

Sample Name:			EB1-060712		EB1-062112		EB2-051712		EB2-060712		EB2-062112		EB-072612	
Location:			5C_DG-EB		5C_DG-EB		5C_DG-EB		5C_DG-EB		5C_DG-EB		EQUIPMENT BLANK	
Sample Date:			06/07/2012		06/21/2012		05/17/2012		06/07/2012		06/21/2012		2012-07-26	
Sample Type:			EB		EB		EB		EB		EB		EB	
Analyte	Analytic Method	Units	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier
EFH (C12-C14)	8015B EFH	mg/L	0.1	U			0.1	U	0.097	U	0.1	U		
EFH (C12-C14)	8015BEFH	mg/L												
EFH (C15-C20)	8015B EFH	mg/L	0.1	U			0.1	U	0.097	U	0.1	U		
EFH (C15-C20)	8015BEFH	mg/L												
EFH (C21-C30)	8015B EFH	mg/L	0.1	U			0.1	U	0.097	U	0.1	U		
EFH (C21-C30)	8015BEFH	mg/L												
EFH (C30-C40)	8015B EFH	mg/L	0.1	U			0.1	U	0.097	U	0.1	U		
EFH (C30-C40)	8015BEFH	mg/L												
EFH (C8-C11)	8015B EFH	mg/L	0.1	U			0.1	U	0.097	U	0.1	U		
EFH (C8-C11)	8015BEFH	mg/L												
Endosulfan I	8081A	µg/L	0.099	U										
Endosulfan II	8081A	µg/L	0.099	U										
Endosulfan Sulfate	8081A	µg/L	0.099	U										
Endrin	8081A	µg/L	0.099	U										
Endrin Aldehyde	8081A	µg/L	0.099	U										
Endrin Ketone	8081A	µg/L	0.099	U										
Ethanol	8015B	µg/L	1000	U					1000	U	1000	U		
Ethylbenzene	8260B	µg/L									1	U		
Ethylene Glycol	8015M	mg/L	10	U					10	U	10	U		
Fluoranthene	8270C SIM	µg/L	0.21	U			0.21	U	0.22	U	0.22	U		
Fluorene	8270C SIM	µg/L	0.21	U			0.21	U	0.22	U	0.22	U		
Formaldehyde	8315A	µg/L	50	U										
Formaldehyde	SW8315A	µg/L												
Gamma-Bhc (Lindane)	8081A	µg/L	0.099	U										
Gasoline Range Organics (C5-C12)	8015B GRO	µg/L	18	J			50	U	20	J	32	J		
Heptachlor	8081A	µg/L	0.099	U										
Heptachlor Epoxide	8081A	µg/L	0.099	U										
Hexachloro-1,3-butadiene	8260B	µg/L									1	U		
Indeno(1,2,3-cd)pyrene	8270C SIM	µg/L	0.21	U			0.21	U	0.22	U	0.22	U		
Iron	6020	mg/L	0.1	U			0.1	U	0.1	U	0.022	J		
Iron	6020A	mg/L												
Isopropylbenzene	8260B	µg/L									1	U		
Lead	6020	mg/L	0.001	U			0.001	U	0.001	U	0.001	U		
Lead	6020A	mg/L												
Lithium	6020	mg/L	0.002	U			0.002	U	0.002	U	0.002	U		
Lithium	6020A	mg/L												
m,p-Xylene	8260B	µg/L									2	U		
Magnesium	6020	mg/L	0.1	U			0.1	U	0.1	U	0.1	U		
Magnesium	6020A	mg/L												
Manganese	6020	mg/L	0.001	U			0.001	U	0.000211	J	0.000336	J		
Manganese	6020A	mg/L												
MCPA	8151A	µg/L	100	U										
MCPA	8151A	µg/L	100	U										
Methanol	8015B	µg/L	1000	U					1000	U	1000	U		
Methoxychlor	8081A	µg/L	0.99	U										
Methyl Iodide	8260B	µg/L									1	U		
Methyl Tert-Butyl Ether	8260B	µg/L									1	U		
Methylene Chloride	8260B	µg/L									0.91	J		
Mirex	8081A	µg/L	0.099	U										
Molybdenum	6020	mg/L	0.002	U			0.002	U	0.002	U	0.002	U		
Molybdenum	6020A	mg/L												
Morpholine	8270C SIM	µg/L												
Naphthalene	8270C SIM	µg/L	0.21	U			0.11	J	0.25		0.22	U		
n-Butylbenzene	8260B	µg/L									1	U		
Nickel	6020	mg/L	0.001	U			0.001	U	0.000336	J	0.001	U		
Nickel	6020A	mg/L												
N-Nitrosodimethylamine	8270C SIM	µg/L	1	U			1	U	1.1	U	1.1	U		
n-Propylbenzene	8260B	µg/L									1	U		
OCDD	1613B	pg/L	21.6	U			21.7	U			19.6	U	20.5	U
OCDF	1613B	pg/L	21.6	U			21.7	U			19.6	U	20.5	U
o-Xylene	8260B	µg/L									1	U		
Perchlorate	314	µg/L									2	U		
Perchlorate	6850	µg/L	0.2	U										
Phenanthrene	8270C SIM	µg/L	0.21	U			0.21	U	0.22	U	0.22	U		
Phosphorus	6020	mg/L	0.05	U			0.05	U	0.05	U	0.05	U		
Phosphorus	6020A	mg/L												
Potassium	6020	mg/L	0.1	U			0.1	U	0.1	U	0.1	U		
Potassium	6020A	mg/L												
Propylene Glycol	8015M	mg/L	10	U					10	U	10	U		
Pyrene	8270C SIM	µg/L	0.21	U			0.21	U	0.22	U	0.22	U		
Selenium	6020	mg/L	0.001	U			0.001	U	0.001	U	0.001	U		
Selenium	6020A	mg/L												
Silver	6020	mg/L	0.001	U			0.001	U	0.001	U	0.001	U		
Silver	6020A	mg/L												
Silvex (2,4,5-TP)	8151A	µg/L	0.8	U										
Sodium	6020	mg/L	0.0803	J			0.1	U	0.1	U	0.104			
Sodium	6020A	mg/L												
Strontium	6020	mg/L	0.002	U			0.002	U	0.002	U	0.002	U		
Strontium	6020A	mg/L												
Styrene	8260B	µg/L									1	U		
Technical Toxaphene	8081A	µg/L	2	U										
tert-Butyl ethyl ether	8260B	µg/L									1	U		
tert-Butylbenzene	8260B	µg/L									1	U		
Tertiary amyl methyl ether	8260B	µg/L									1	U		
Tertiary butyl alcohol	8260B	µg/L									10	U		
Tetrachloroethene	8260B	µg/L									1	U		
Thallium	6020	mg/L	0.001	U			0.001	U	0.001	U	0.001	U		
Thallium	6020A	mg/L												
Tin	6020	mg/L	0.001	U			0.001	U	0.001	U	0.001	U		
Tin	6020A	mg/L												
Titanium	6020	mg/L	0.002	U			0.002	U	0.002	U	0.002	U		
Titanium	6020A	mg/L												
Toluene	8260B	µg/L									1	U		
Total EFH (C8-C40)	8015BEFH	mg/L												
trans-1,2-Dichloroethene	8260B	µg/L									1	U		
trans-1,3-Dichloropropene	8260B	µg/L									1	U		
Trichloroethene	8260B	µg/L									1	U		
Trichlorofluoromethane	8260B	µg/L									1	U		
Vanadium	6020	mg/L	0.001	U			0.001	U	0.001	U	0.001	U		
Vanadium	6020A	mg/L												
Vinyl Acetate	8260B	µg/L									1	U		
Vinyl Chloride	8260B	µg/L									1	U		
Zinc	6020	mg/L	0.02	U			0.02	U	0.02	U	0.02	U		
Zinc	6020A	mg/L												
Zirconium	6020	mg/L	0.005	U			0.005	U	0.005	U	0.005	U		
Zirconium	6020A	mg/L												

ug/L - microgram per liter

mg/L - milligram per liter

ng/L - nanogram per liter

pg/L - picogram per liter

U - Compound not detected above the reporting limit

(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM.

The validators used the value with the lowest detection limit for validation purposes

Table C3 - Subarea 5C - Field Blanks

Sample Name: Location: Sample Date: Sample Type			FB-060512 5C_DG-FB 06/05/2012 FB		FB-062012 5C_DG-FB 06/20/2012 FB		FB-071112 5C_DG-FB 07/11/2012 FB	
Analyte	Analytic Method	Units	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier
1,1,1,2-Tetrachloroethane	8260B	µg/L	1	U	1	U	1	U
1,1,1-Trichloroethane	8260B	µg/L	1	U	1	U	1	U
1,1,2-Tetrachloroethane	8260B	µg/L	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-trifluoroethane	8260B	µg/L	1	U	1	U	1	U
1,1,2-Trichloroethane	8260B	µg/L	1	U	1	U	1	U
1,1'-Biphenyl	8270C SIM	µg/L	2.2	U	2	U	2.1	U
1,1-Dichloroethane	8260B	µg/L	1	U	1	U	1	U
1,1-Dichloroethene	8260B	µg/L	1	U	1	U	1	U
1,1-Dichloropropene	8260B	µg/L	1	U	1	U	1	U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	1613B	pg/L	9.6	U	9.83	U	10.6	U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	E1613B	pg/L					3.69	
1,2,3,4,6,7,8-HPCDF	1613B	pg/L	9.6	U	9.83	U	10.6	U
1,2,3,4,6,7,8-HPCDF	E1613B	pg/L					0.537	
1,2,3,4,7,8,9-HPCDF	1613B	pg/L	9.6	U	9.83	U	10.6	U
1,2,3,4,7,8,9-HPCDF	E1613B	pg/L					0.373	
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	1613B	pg/L	9.6	U	1.05	J	10.6	U
1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	E1613B	pg/L					0.459	
1,2,3,4,7,8-HXCDF	1613B	pg/L	9.6	U	9.83	U	10.6	U
1,2,3,4,7,8-HXCDF	E1613B	pg/L					0.326	
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	1613B	pg/L	9.6	U	9.83	U	10.6	U
1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	E1613B	pg/L					0.482	
1,2,3,6,7,8-HXCDF	1613B	pg/L	9.6	U	9.83	U	10.6	U
1,2,3,6,7,8-HXCDF	E1613B	pg/L					0.246	
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	1613B	pg/L	9.6	U	9.83	U	0.557	J
1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	E1613B	pg/L					0.557	
1,2,3,7,8,9-HXCDF	1613B	pg/L	9.6	U	9.83	U	10.6	U
1,2,3,7,8,9-HXCDF	E1613B	pg/L					0.153	
1,2,3,7,8-Pentachlorodibenzofuran	1613B	pg/L	0.142	J	9.83	U	10.6	U
1,2,3,7,8-Pentachlorodibenzofuran	E1613B	pg/L					0.544	
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	1613B	pg/L	9.6	U	0.97	J	10.6	U
1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	E1613B	pg/L					0.467	
1,2,3-Trichlorobenzene	8260B	µg/L	1	U	1	U	1	U
1,2,3-Trichloropropane	8260B	µg/L	2	U	2	U	2	U
1,2,4-Trichlorobenzene	8260B	µg/L	1	U	1	U	1	U
1,2,4-Trichlorobenzene	8270C	µg/L	11	UJ	10	U		
1,2,4-Trimethylbenzene	8260B	µg/L	1	U	1	U	1	U
1,2-Dibromo-3-chloropropane	8260B	µg/L	2	U	2	U	2	U
1,2-Dibromoethane	8260B	µg/L	1	U	1	U	1	U
1,2-Dichlorobenzene	8260B	µg/L	1	U	1	U	1	U
1,2-Dichlorobenzene	8270C	µg/L	11	UJ	10	U		
1,2-Dichloroethane	8260B	µg/L	1	U	1	U	1	U
1,2-Dichloropropane	8260B	µg/L	1	U	1	U	1	U
1,2-Diphenylhydrazine	8270C	µg/L	11	UJ	10	U		
1,3,5-Trimethylbenzene	8260B	µg/L	1	U	1	U	1	U
1,3,5-Trinitrobenzene	8330A	µg/L	0.6	U	0.6	U		
1,3-Dichlorobenzene	8260B	µg/L	1	U	1	U	1	U
1,3-Dichlorobenzene	8270C	µg/L	11	UJ	10	U		
1,3-Dichloropropane	8260B	µg/L	1	U	1	U	1	U
1,4-Dichlorobenzene	8260B	µg/L	1	U	1	U	1	U
1,4-Dichlorobenzene	8270C	µg/L	11	UJ	10	U		
1,4-Dioxane	8260B SIM	µg/L	2	U	2	U	1.9	J
1-Chlorohexane	8260B	µg/L	1	U	1	U	1	U
1-Methylnaphthalene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
2,2-Dichloropropane	8260B	µg/L	1	U	1	U	1	U
2,2-Dichloro-Propionic Acid	8151A	µg/L	0.8	U	0.8	U	0.8	U
2,3,4,6,7,8-HXCDF	1613B	pg/L	9.6	U	9.83	U	10.6	U
2,3,4,6,7,8-HXCDF	E1613B	pg/L					0.279	
2,3,4,7,8-PECDF	1613B	pg/L	9.6	U	9.83	U	10.6	U
2,3,4,7,8-PECDF	E1613B	pg/L					0.462	
2,3,7,8-TCDD	1613B	pg/L	1.92	U	1.97	U	2.11	U
2,3,7,8-TCDD	E1613B	pg/L					0.482	
2,3,7,8-Tetrachlorodibenzofuran	1613B	pg/L	0.208	J	1.97	U	2.11	U
2,3,7,8-Tetrachlorodibenzofuran	E1613B	pg/L					0.415	
2,4,5-T	8151A	µg/L	0.8	U	0.8	U	0.8	U
2,4,5-Trichlorophenol	8270C	µg/L	11	UJ	10	U		
2,4,6-Trichlorophenol	8270C	µg/L	11	UJ	10	U		
2,4,6-Trinitrotoluene	8330A	µg/L	0.6	U	0.6	U		
2,4-D	8151A	µg/L	0.8	U	0.8	U	0.8	U
2,4-DB	8151A	µg/L	0.8	U	0.8	U	0.8	U
2,4-Diamino-6-nitrotoluene	8330A	µg/L	2	U	2	U		
2,4-Dichlorophenol	8270C	µg/L	11	UJ	10	U		
2,4-Dimethylphenol	8270C	µg/L	11	UJ	10	U		
2,4-Dinitrophenol	8270C	µg/L	21	UJ	20	U		
2,4-Dinitrotoluene	8330A	µg/L	0.6	U	0.6	U		
2,6-Diamino-4-nitrotoluene	8330A	µg/L	2	U	2	U		
2,6-Dinitrotoluene	8330A	µg/L	0.6	U	0.6	U		
2-Amino-4,6-Dinitrotoluene	8330A	µg/L	0.6	U	0.6	U		
2-Butanone (MEK)	8260B	µg/L	10	U	6.2	J	10	U
2-butoxyethanol	8270C	µg/L	11	UJ	10	U		
2-Chloro-1,1,1-trifluoroethane	8260B	µg/L	1	U	1	U	1	U
2-Chloroethyl Vinyl Ether	8260B	µg/L	2	U	2	U	2	U
2-Chloronaphthalene	8270C	µg/L	11	UJ	10	U		
2-Chlorophenol	8270C	µg/L	11	UJ	10	UJ		
2-Chlorotoluene	8260B	µg/L	1	U	1	U	1	U
2-Hexanone	8260B	µg/L	10	U	10	U	10	U
2-Methylnaphthalene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
2-Methylphenol	8270C	µg/L	11	UJ	10	U		
2-Nitroaniline	8270C	µg/L	11	UJ	10	U		
2-Nitrophenol	8270C	µg/L	11	UJ	10	U		
2-Nitrotoluene	8330A	µg/L	0.6	U	0.6	U		
2-phenoxyethanol	8270C	µg/L	11	UJ	10	U		
2-Phenylbutane	8260B	µg/L	1	U	1	U	1	U
2-Propanol	8015B	µg/L	1000	U	1000	U	1000	U
3,3'-Dichlorobenzidine	8270C	µg/L	11	UJ	10	UJ		
3,5-Dimethylphenol	8270C	µg/L	21	UJ	20	U		
3-Nitroaniline	8270C	µg/L	11	UJ	10	U		
3-Nitrotoluene	8330A	µg/L	0.6	U	0.6	U		
4,4'-DDD	8081A	µg/L	0.1	U	0.099	U	0.1	U
4,4'-DDD	SW8081A	µg/L					0.1	
4,4'-DDE	8081A	µg/L	0.1	U	0.099	U	0.1	U
4,4'-DDE	SW8081A	µg/L					0.1	
4,4'-DDT	8081A	µg/L	0.1	U	0.099	U	0.1	U
4,4'-DDT	SW8081A	µg/L					0.1	
4,6-Dinitro-2-methylphenol	8270C	µg/L	21	UJ	20	U		
4-Amino-2,6-Dinitrotoluene	8330A	µg/L	0.6	U	0.6	U		
4-Bromophenyl-phenylether	8270C	µg/L	11	UJ	10	U		
4-Chloro-3-methylphenol	8270C	µg/L	11	UJ	10	U		
4-Chloroaniline	8270C	µg/L	11	UJ	10	UJ		
4-Chlorophenyl-phenylether	8270C	µg/L	11	UJ	10	U		
4-Chlorotoluene	8260B	µg/L	1	U	1	U	1	U
4-Methyl-2-pentanone (MIBK)	8260B	µg/L	10	U	10	U	10	U
4-Methylphenol	8270C	µg/L	11	UJ	10	U		
4-Nitroaniline	8270C	µg/L	11	UJ	10	U		
4-Nitrophenol	8270C	µg/L	21	UJ	20	U		

Table C3 - Subarea 5C - Field Blanks

Sample Name: Location: Sample Date: Sample Type			FB-060512 5C_DG-FB 06/05/2012 FB		FB-062012 5C_DG-FB 06/20/2012 FB		FB-071112 5C_DG-FB 07/11/2012 FB	
Analyte	Analytic Method	Units	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier
4-Nitrotoluene	8330A	µg/L	0.6	U	0.6	U		
Acenaphthene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Acenaphthylene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Acetone	8260B	µg/L	26	U	10	U	10	U
Acrolein	8260B	µg/L	10	U	10	U	10	U
Acrylonitrile	8260B	µg/L	10	U	10	U	10	U
Aldrin	8081A	µg/L	0.1	U	0.099	U	0.1	U
Aldrin	SW8081A	µg/L					0.1	
Alpha-Bhc	8081A	µg/L	0.1	U	0.099	U	0.1	U
Alpha-Bhc	SW8081A	µg/L					0.1	
Aluminum	6020	mg/L	0.027	J	0.0271	J	0.0296	J
Aniline	8270C	µg/L	21	UJ	20	UJ		
Anthracene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Antimony	6020	mg/L	0.001	U	0.001	U	0.001	U
Aroclor 1016	8082	µg/L	1	U	0.99	U	1	U
Aroclor 1221	8082	µg/L	1	U	0.99	U	1	U
Aroclor 1232	8082	µg/L	1	U	0.99	U	1	U
Aroclor 1242	8082	µg/L	1	U	0.99	U	1	U
Aroclor 1248	8082	µg/L	1	U	0.99	U	1	U
Aroclor 1254	8082	µg/L	1	U	0.99	U	1	U
Aroclor 1260	8082	µg/L	1	U	0.99	U	1	U
Aroclor 1262	8082	µg/L	1	U	0.99	U	1	U
Aroclor 1268	8082	µg/L	1	U	0.99	U	1	U
Aroclor 5432	8082	µg/L	2	U	2	U	2	U
Aroclor 5442	8082	µg/L	2	U	2	U	2	U
Aroclor 5460	8082	µg/L	2	U	2	U	2	U
Arsenic	6020	mg/L	0.001	U	0.001	U	0.001	U
Azobenzene	8270C SIM	µg/L	1.1	U	1	U	1.1	U
Barium	6020	mg/L	0.001	U	0.001	U	0.001	U
Benzene	8260B	µg/L	1	U	1	U	1	U
Benzidine	8270C	µg/L	53	UJ	51	R		
Benzo(a)anthracene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Benzo(a)pyrene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Benzo(b)fluoranthene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Benzo(e)pyrene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Benzo(g,h,i)perylene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Benzo(k)fluoranthene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Benzoic Acid	8270C	µg/L	42	UJ	41	U		
Benzyl Alcohol	8270C	µg/L	11	UJ	10	U		
Beryllium	6020	mg/L	0.001	U	0.001	U	0.001	U
Beta-Bhc	8081A	µg/L	0.1	U	0.099	U	0.1	U
Beta-Bhc	SW8081A	µg/L					0.1	
bis(2-chloroethoxy)methane	8270C	µg/L	11	UJ	10	U		
bis(2-chloroethyl) ether	8270C	µg/L	11	UJ	10	U		
bis(2-chloroisopropyl) ether	8270C	µg/L	11	UJ	10	U		
Bis(2-ethylhexyl)phthalate	8270C	µg/L	21	UJ	20	U		
Boron	6020	mg/L	0.01	U	0.00916	J	0.01	U
Bromobenzene	8260B	µg/L	1	U	1	U	1	U
Bromochloromethane	8260B	µg/L	1	U	1	U	1	U
Bromodichloromethane	8260B	µg/L	1	U	1	U	1	U
Bromoform	8260B	µg/L	1	U	1	U	1	U
Bromomethane	8260B	µg/L	1	U	1	U	1	U
Butylbenzylphthalate	8270C	µg/L	11	UJ	10	U		
Cadmium	6020	mg/L	0.001	U	0.001	U	0.001	U
Calcium	6020	mg/L	0.0263	J	0.0438	J	0.1	U
Carbazole	8270C	µg/L	11	UJ	10	U		
Carbon Disulfide	8260B	µg/L	1	U	1	U	1	U
Carbon Tetrachloride	8260B	µg/L	1	U	1	U	1	U
Chlordane (Technical)	8081A	µg/L	1	U	0.99	U	1	U
Chlordane (Technical)	SW8081A	µg/L					1	
Chlorobenzene	8260B	µg/L	1	U	1	U	1	U
Chloroethane	8260B	µg/L	1	U	1	U	1	U
Chloroform	8260B	µg/L	1	U	1	U	1	U
Chloromethane	8260B	µg/L	1	U	1	U	1	U
Chlorotrifluoroethylene	8260B	µg/L	1	U	1	U	1	U
Chromium	6020	mg/L	0.001	U	0.001	U	0.001	U
Chromium (Hexavalent Compounds)	7199	µg/L	0.2	U	0.2	U	0.2	U
Chrysene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
cis-1,2-Dichloroethene	8260B	µg/L	1	U	1	U	1	U
cis-1,3-Dichloropropene	8260B	µg/L	1	U	1	U	1	U
Cobalt	6020	mg/L	0.001	U	0.001	U	0.001	U
Copper	6020	mg/L	0.000954	J	0.00112		0.00102	
Cymene	8260B	µg/L	1	U	1	U	1	U
Delta-Bhc	8081A	µg/L	0.1	U	0.099	U	0.1	U
Delta-Bhc	SW8081A	µg/L					0.1	
Di isopropyl Ether	8260B	µg/L	1	U	1	U	1	U
Dibenzo(a,h)anthracene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Dibenzofuran	8270C	µg/L	11	UJ	10	U		
Dibromochloromethane	8260B	µg/L	1	U	1	U	1	U
Dibromomethane	8260B	µg/L	1	U	1	U	1	U
Dicamba	8151A	µg/L	0.8	U	0.8	U	0.8	U
Dichlorodifluoromethane	8260B	µg/L	1	U	1	U	1	U
Dichloroprop	8151A	µg/L	0.8	U	0.8	U	0.8	U
Dieldrin	8081A	µg/L	0.1	U	0.099	U	0.1	U
Dieldrin	SW8081A	µg/L					0.1	
Diethylene Glycol	8015M	mg/L	10	U	10	U	10	U
Diethylphthalate	8270C	µg/L	11	UJ	10	U		
Dimethylphthalate	8270C	µg/L	11	UJ	10	U		
Di-n-butylphthalate	8270C	µg/L	11	UJ	10	U		
Dinitrobutyl Phenol	8151A	µg/L	0.8	U	0.8	U	0.8	U
Di-n-octylphthalate	8270C	µg/L	11	UJ	10	U		
EFH (C12-C14)	8015B EFH	mg/L	0.11	U	0.097	U	0.11	U
EFH (C15-C20)	8015B EFH	mg/L	0.11	U	0.097	U	0.11	U
EFH (C21-C30)	8015B EFH	mg/L	0.11	U	0.097	U	0.11	U
EFH (C30-C40)	8015B EFH	mg/L	0.11	U	0.097	U	0.11	U
EFH (C8-C11)	8015B EFH	mg/L	0.11	U	0.097	U	0.11	U
Endosulfan I	8081A	µg/L	0.1	U	0.099	U	0.1	U
Endosulfan I	SW8081A	µg/L					0.1	
Endosulfan II	8081A	µg/L	0.1	U	0.099	U	0.1	U
Endosulfan II	SW8081A	µg/L					0.1	
Endosulfan Sulfate	8081A	µg/L	0.1	U	0.099	U	0.1	U
Endosulfan Sulfate	SW8081A	µg/L					0.1	
Endrin	8081A	µg/L	0.1	U	0.099	U	0.1	U
Endrin	SW8081A	µg/L					0.1	
Endrin Aldehyde	8081A	µg/L	0.1	U	0.099	U	0.1	U
Endrin Aldehyde	SW8081A	µg/L					0.1	
Endrin Ketone	8081A	µg/L	0.1	U	0.099	U	0.1	U
Endrin Ketone	SW8081A	µg/L					0.1	
Ethanol	8015B	µg/L	1000	U	1000	U	1000	U
Ethylbenzene	8260B	µg/L	1	U	1	U	1	U
Ethylene Glycol	8015M	mg/L	10	U	10	U	10	U
Fluoranthene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Fluorene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Formaldehyde	8315A	µg/L	12	J	50	UJ		

Table C3 - Subarea 5C - Field Blanks

Sample Name: Location: Sample Date: Sample Type			FB-060512 5C_DG-FB 06/05/2012 FB		FB-062012 5C_DG-FB 06/20/2012 FB		FB-071112 5C_DG-FB 07/11/2012 FB	
Analyte	Analytic Method	Units	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier
Formaldehyde	SW8315A	µg/L					10	
Gamma-Bhc (Lindane)	8081A	µg/L	0.1	U	0.099	U	0.1	U
Gamma-Bhc (Lindane)	SW8081A	µg/L					0.1	
Gasoline Range Organics (C5-C12)	8015B GRO	µg/L	49	J	28	J	50	U
Heptachlor	8081A	µg/L	0.1	U	0.099	U	0.1	U
Heptachlor	SW8081A	µg/L					0.1	
Heptachlor Epoxide	8081A	µg/L	0.1	U	0.099	U	0.1	U
Heptachlor Epoxide	SW8081A	µg/L					0.1	
Hexachloro-1,3-butadiene	8260B	µg/L	1	U	1	U	1	U
Hexachlorobenzene	8270C	µg/L	11	UJ	10	U		
Hexachlorobutadiene	8270C	µg/L	11	UJ	10	U		
Hexachlorocyclopentadiene	8270C	µg/L	21	UJ	20	U		
Hexachloroethane	8270C	µg/L	11	UJ	10	U		
HMX	8330A	µg/L	0.6	U	0.6	U		
Indeno(1,2,3-cd)pyrene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Iron	6020	mg/L	0.1	U	0.1	U	0.1	U
Isophorone	8270C	µg/L	11	UJ	10	U		
Isopropylbenzene	8260B	µg/L	1	U	1	U	1	U
Lead	6020	mg/L	0.001	U	0.001	U	0.001	U
Lithium	6020	mg/L	0.002	U	0.002	U	0.002	U
m,p-Xylene	8260B	µg/L	2	U	2	U	2	U
Magnesium	6020	mg/L	0.1	U	0.1	U	0.1	U
Manganese	6020	mg/L	0.001	U	0.001	U	0.001	U
MCPA	8151A	µg/L	100	U	100	U	100	U
MCPP	8151A	µg/L	100	U	100	U	100	U
M-Dinitrobenzene	8330A	µg/L	0.6	U	0.6	U		
Methanol	8015B	µg/L	1000	U	1000	U	1000	U
Methoxychlor	8081A	µg/L	1	U	0.99	U	1	U
Methoxychlor	SW8081A	µg/L					1	
Methyl Iodide	8260B	µg/L	1	U	1	U	1	U
Methyl Tert-Butyl Ether	8260B	µg/L	1	U	1	U	1	U
Methylene Chloride	8260B	µg/L	1	U	4.1	U	1	U
Mirex	8081A	µg/L	0.1	U	0.099	U	0.1	U
Mirex	SW8081A	µg/L					0.1	
Molybdenum	6020	mg/L	0.002	U	0.002	U	0.002	U
Naphthalene	8270C SIM	µg/L	0.22	U	0.26	U	0.21	U
n-Butylbenzene	8260B	µg/L	1	U	1	U	1	U
Nickel	6020	mg/L	0.001	U	0.001	U	0.000204	J
Nitrobenzene	8270C	µg/L	11	UJ	10	U		
Nitrobenzene	8330A	µg/L	0.6	U	0.6	U		
Nitroglycerin	8332	µg/L	250	U	250	U		
N-Nitrosodimethylamine	8270C SIM	µg/L	1.1	U	1	U	1.1	U
N-Nitroso-di-n-propylamine	8270C	µg/L	11	UJ	10	U		
N-Nitrosodiphenylamine	8270C	µg/L	11	UJ	10	U		
n-Propylbenzene	8260B	µg/L	1	U	1	U	1	U
OCDD	1613B	pg/L	19.2	U	19.7	U	21.1	U
OCDD	E1613B	pg/L					6.34	
OCDF	1613B	pg/L	19.2	U	19.7	U	21.1	U
OCDF	E1613B	pg/L					1.09	
o-Xylene	8260B	µg/L	1	U	1	U	1	U
Pentachlorophenol	8270C	µg/L	21	UJ	20	U		
Perchlorate	6850	µg/L	0.2	U	0.2	U	0.2	U
PETN	8332	µg/L	250	U	250	U		
Phenanthrene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
Phenol	8270C	µg/L	11	UJ	10	U		
Phosphorus	6020	mg/L	0.05	U	0.05	U	0.05	U
Potassium	6020	mg/L	0.1	U	0.1	U	0.1	U
Propylene Glycol	8015M	mg/L	10	U	10	U	10	U
Pyrene	8270C SIM	µg/L	0.22	U	0.2	U	0.21	U
RDX	8330A	µg/L	0.6	U	0.6	U		
Selenium	6020	mg/L	0.001	U	0.001	U	0.001	U
Silver	6020	mg/L	0.001	U	0.001	U	0.001	U
Silvex (2,4,5-TP)	8151A	µg/L	0.8	U	0.8	U	0.8	U
Sodium	6020	mg/L	0.1	U	0.1	U	0.1	U
Strontium	6020	mg/L	0.002	U	0.002	U	0.002	U
Styrene	8260B	µg/L	1	U	1	U	1	U
Technical Toxaphene	8081A	µg/L	2	U	2	U	2	U
Technical Toxaphene	SW8081A	µg/L					2	
tert-Butyl ethyl ether	8260B	µg/L	1	U	1	U	1	U
tert-Butylbenzene	8260B	µg/L	1	U	1	U	1	U
Tertiary amyl methyl ether	8260B	µg/L	1	U	1	U	1	U
Tertiary butyl alcohol	8260B	µg/L	10	U	10	U	10	U
Tetrachloroethene	8260B	µg/L	1	U	1	U	1	U
Tetralin	8270C	µg/L	11	UJ	10	U		
Tetryl	8330A	µg/L	0.6	U	0.6	U		
Thallium	6020	mg/L	0.001	U	0.001	U	0.001	U
Tin	6020	mg/L	0.001	U	0.001	U	0.001	U
Titanium	6020	mg/L	0.002	U	0.002	U	0.002	U
Toluene	8260B	µg/L	1	U	0.29	J	1	U
trans-1,2-Dichloroethene	8260B	µg/L	1	U	1	U	1	U
trans-1,3-Dichloropropene	8260B	µg/L	1	U	1	U	1	U
Trichloroethene	8260B	µg/L	1	U	1	U	1	U
Trichlorofluoromethane	8260B	µg/L	1	U	1	U	1	U
Vanadium	6020	mg/L	0.001	U	0.001	U	0.001	U
Vinyl Acetate	8260B	µg/L	1	U	1	U	1	U
Vinyl Chloride	8260B	µg/L	1	U	1	U	1	U
Zinc	6020	mg/L	0.02	U	0.02	U	0.02	U
Zirconium	6020	mg/L	0.005	U	0.005	U	0.005	U

ug/L - microgram per liter

mg/L - milligram per liter

ng/L - nanogram per liter

pg/L - picogram per liter

U - Compound not detected above the reporting limit

(a) Some SVOC results had two values - one for SVOC and one for SVOC SIM.

The validators used the value with the lowest detection limit for validation

purposes



Table C4 - Subarea 5C - Trip Blank Samples

Sample Name: Location: Sample Date: Sample Type			TB-053112 TRIP BLANK SA5C 05/31/2012 TB		TB-060112 TRIP BLANK SA5C 06/01/2012 TB		TB-060512 TRIP BLANK SA5C 06/05/2012 TB		TB-060612 TRIP BLANK SA5C 06/06/2012 TB		TB-060712 TRIP BLANK SA5C 06/07/2012 TB		TB-061212 TRIP BLANK SA5C 06/12/2012 TB		TB-061312 TRIP BLANK SA5C 06/13/2012 TB		TB-061412 TRIP BLANK SA5C 06/14/2012 TB		TB-061812 TRIP BLANK SA5C 06/18/2012 TB		TB-061912 TRIP BLANK SA5C 06/19/2012 TB		TB-062012 TRIP BLANK SA5C 06/20/2012 TB		TB-062112 TRIP BLANK SA5C 06/21/2012 TB					
Analyte	Analytic Method	Units	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier				
1,1,1,2-Tetrachloroethane	8260B	µg/L		1 U																										
1,1,1-Trichloroethane	8260B	µg/L		1 U																										
1,1,2,2-Tetrachloroethane	8260B	µg/L		1 U																										
1,1,2-Trichloro-1,2,2-trifluoroethane	8260B	µg/L		1 U																										
1,1,2-Trichloroethane	8260B	µg/L		1 U																										
1,1-Dichloroethane	8260B	µg/L		1 U																										
1,1-Dichloroethene	8260B	µg/L		1 U																										
1,1-Dichloropropene	8260B	µg/L		1 U																										
1,2,3-Trichlorobenzene	8260B	µg/L		1 U																										
1,2,3-Trichloropropane	8260B	µg/L		2 U																										
1,2,4-Trichlorobenzene	8260B	µg/L		1 U																										
1,2,4-Trimethylbenzene	8260B	µg/L		1 U																										
1,2-Dibromo-3-chloropropane	8260B	µg/L		2 U																										
1,2-Dibromoethane	8260B	µg/L		1 U																										
1,2-Dichlorobenzene	8260B	µg/L		1 U																										
1,2-Dichloroethane	8260B	µg/L		1 U																										
1,2-Dichloropropane	8260B	µg/L		1 U																										
1,3,5-Trimethylbenzene	8260B	µg/L		1 U																										
1,3-Dichlorobenzene	8260B	µg/L		1 U																										
1,3-Dichloropropane	8260B	µg/L		1 U																										
1,4-Dichlorobenzene	8260B	µg/L		1 U																										
1,4-Dioxane	8260B SIM	µg/L		2 U																										
1-Chlorohexane	8260B	µg/L		1 U																										
2,2-Dichloropropane	8260B	µg/L		1 U																										
2-Butanone (MEK)	8260B	µg/L		10 U																										
2-Chloro-1,1,1-trifluoroethane	8260B	µg/L		1 U																										
2-Chloroethyl Vinyl Ether	8260B	µg/L		2 U																										
2-Chlorotoluene	8260B	µg/L		1 U																										
2-Hexanone	8260B	µg/L		10 U																										
2-Phenylbutane	8260B	µg/L		1 U																										
4-Chlorotoluene	8260B	µg/L		1 U																										
4-Methyl-2-pentanone (MIBK)	8260B	µg/L		10 U																										
Acetone	8260B	µg/L		10 U																										
Acrolein	8260B	µg/L		10 UJ																										
Acrylonitrile	8260B	µg/L		10 UJ																										
Benzene	8260B	µg/L		1 U																										
Bromobenzene	8260B	µg/L		1 U																										
Bromochloromethane	8260B	µg/L		1 U																										
Bromodichloromethane	8260B	µg/L		1 U																										
Bromoform	8260B	µg/L		1 U																										
Bromomethane	8260B	µg/L		1 U																										
Carbon Disulfide	8260B	µg/L		1 U																										
Carbon Tetrachloride	8260B	µg/L		1 U																										
Chlorobenzene	8260B	µg/L		1 U																										
Chloroethane	8260B	µg/L		1 U																										
Chloroform	8260B	µg/L		1 U																										
Chloromethane	8260B	µg/L		1 U																										
Chlorotrifluoroethylene	8260B	µg/L		1 U																										
cis-1,2-Dichloroethene	8260B	µg/L		1 U																										
cis-1,3-Dichloropropene	8260B	µg/L		1 U																										
Cymene	8260B	µg/L		1 U																										
Di isopropyl Ether	8260B	µg/L		1 U																										
Dibromochloromethane	8260B	µg/L		1 U																										
Dibromomethane	8260B	µg/L		1 U																										
Dichlorodifluoromethane	8260B	µg/L		1 U																										
Ethylbenzene	8260B	µg/L		1 U																										
Gasoline Range Organics (C5-C12)	8015B GRO	µg/L		27 J			29 J		41 J			29 J		23 J			18 J		12 J		15 J			41 J		23 J		28 J		28 J
Hexachloro-1,3-butadiene	8260B	µg/L		1 U																										
Isopropylbenzene	8260B	µg/L		1 U																										
m,p-Xylene	8260B	µg/L		2 U																										
Methyl Iodide	8260B	µg/L		1 U																										
Methyl Tert-Butyl Ether	8260B	µg/L		1 U																										
Methylene Chloride	8260B	µg/L		1 U																										
n-Butylbenzene	8260B	µg/L		1 U																										
n-Propylbenzene	8260B	µg/L		1 U																										
o-Xylene	8260B	µg/L		1 U																										
Styrene	8260B	µg/L		1 U																										
tert-Butyl ethyl ether	8260B	µg/L		1 U																										
tert-Butylbenzene	8260B	µg/L		1 U																										
Tertiary amyl methyl ether	8260B	µg/L		1 U																										
Tertiary butyl alcohol	8260B	µg/L		10 U																										
Tetrachloroethene	8260B	µg/L		1 U																										
Toluene	8260B	µg/L		1 U																										
trans-1,2-Dichloroethene	8260B	µg/L		1 U																										
trans-1,3-Dichloropropene	8260B	µg/L		1 U																										
Trichloroethene	8260B	µg/L		1 U																										
Trichlorofluoromethane	8260B	µg/L		1 U																										
Vinyl Acetate	8260B	µg/L		1 U																										
Vinyl Chloride	8260B	µg/L		1 U																										

µg/L - microgram per liter  
 U - Compound not detected above the reporting limit  
 J - Estimated Value

Table C4 - Subarea 5C - Trip Blank Samples

Sample Name: Location: Sample Date: Sample Type			TB-062512 TRIP BLANK SA5C 06/25/2012 TB		TB-062612 TRIP BLANK SA5C 06/26/2012 TB		TB-071012 TRIP BLANK SA5C 07/10/2012 TB	
Analyte	Analytic Method	Units	Concentration	Final Qualifier	Concentration	Final Qualifier	Concentration	Final Qualifier
1,1,1,2-Tetrachloroethane	8260B	µg/L						
1,1,1-Trichloroethane	8260B	µg/L						
1,1,2,2-Tetrachloroethane	8260B	µg/L						
1,1,2-Trichloro-1,2,2-trifluoroethane	8260B	µg/L						
1,1,2-Trichloroethane	8260B	µg/L						
1,1-Dichloroethane	8260B	µg/L						
1,1-Dichloroethene	8260B	µg/L						
1,1-Dichloropropene	8260B	µg/L						
1,2,3-Trichlorobenzene	8260B	µg/L						
1,2,3-Trichloropropane	8260B	µg/L						
1,2,4-Trichlorobenzene	8260B	µg/L						
1,2,4-Trimethylbenzene	8260B	µg/L						
1,2-Dibromo-3-chloropropane	8260B	µg/L						
1,2-Dibromoethane	8260B	µg/L						
1,2-Dichlorobenzene	8260B	µg/L						
1,2-Dichloroethane	8260B	µg/L						
1,2-Dichloropropane	8260B	µg/L						
1,3,5-Trimethylbenzene	8260B	µg/L						
1,3-Dichlorobenzene	8260B	µg/L						
1,3-Dichloropropane	8260B	µg/L						
1,4-Dichlorobenzene	8260B	µg/L						
1,4-Dioxane	8260B SIM	µg/L						
1-Chlorohexane	8260B	µg/L						
2,2-Dichloropropane	8260B	µg/L						
2-Butanone (MEK)	8260B	µg/L						
2-Chloro-1,1,1-trifluoroethane	8260B	µg/L						
2-Chloroethyl Vinyl Ether	8260B	µg/L						
2-Chlorotoluene	8260B	µg/L						
2-Hexanone	8260B	µg/L						
2-Phenylbutane	8260B	µg/L						
4-Chlorotoluene	8260B	µg/L						
4-Methyl-2-pentanone (MIBK)	8260B	µg/L						
Acetone	8260B	µg/L						
Acrolein	8260B	µg/L						
Acrylonitrile	8260B	µg/L						
Benzene	8260B	µg/L						
Bromobenzene	8260B	µg/L						
Bromochloromethane	8260B	µg/L						
Bromodichloromethane	8260B	µg/L						
Bromoform	8260B	µg/L						
Bromomethane	8260B	µg/L						
Carbon Disulfide	8260B	µg/L						
Carbon Tetrachloride	8260B	µg/L						
Chlorobenzene	8260B	µg/L						
Chloroethane	8260B	µg/L						
Chloroform	8260B	µg/L						
Chloromethane	8260B	µg/L						
Chlorotrifluoroethylene	8260B	µg/L						
cis-1,2-Dichloroethene	8260B	µg/L						
cis-1,3-Dichloropropene	8260B	µg/L						
Cymene	8260B	µg/L						
Di isopropyl Ether	8260B	µg/L						
Dibromochloromethane	8260B	µg/L						
Dibromomethane	8260B	µg/L						
Dichlorodifluoromethane	8260B	µg/L						
Ethylbenzene	8260B	µg/L						
Gasoline Range Organics (C5-C12)	8015B GRO	µg/L	25 J		26 J		15 J	
Hexachloro-1,3-butadiene	8260B	µg/L						
Isopropylbenzene	8260B	µg/L						
m,p-Xylene	8260B	µg/L						
Methyl Iodide	8260B	µg/L						
Methyl Tert-Butyl Ether	8260B	µg/L						
Methylene Chloride	8260B	µg/L						
n-Butylbenzene	8260B	µg/L						
n-Propylbenzene	8260B	µg/L						
o-Xylene	8260B	µg/L						
Styrene	8260B	µg/L						
tert-Butyl ethyl ether	8260B	µg/L						
tert-Butylbenzene	8260B	µg/L						
Tertiary amyl methyl ether	8260B	µg/L						
Tertiary butyl alcohol	8260B	µg/L						
Tetrachloroethene	8260B	µg/L						
Toluene	8260B	µg/L						
trans-1,2-Dichloroethene	8260B	µg/L						
trans-1,3-Dichloropropene	8260B	µg/L						
Trichloroethene	8260B	µg/L						
Trichlorofluoromethane	8260B	µg/L						
Vinyl Acetate	8260B	µg/L						
Vinyl Chloride	8260B	µg/L						

ug/L - microgram per liter  
 U - Compound not detected above the reporting limit  
 J - Estimated Value

Table C-5 - Subarea 5C Field Duplicate Results

Location		5C_DG-502	5C_DG-502		5C_DG-509	5C_DG-509	
Sample Name:	SL-802-SA5C-SB-0.0-0.5	SL-502-SA5C-SB-0.0-0.5	SL-809-SA5C-SB-4.0-5.0	SL-509-SA5C-SB-4.0-5.0	RPD		
Sample Date:	04/20/2012	04/20/2012	06/11/2012	06/11/2012	RPD		
Start Depth:	0	0	4	4	RPD		
End Depth:	0.5	0.5	5	5	RPD		
Area:	5C_DG	5C_DG	5C_DG	5C_DG	RPD		
Matrix:	SO	SO	SO	SO	RPD		
Sample Type:	FD	N	FD	N	RPD		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit			
Alcohols	2-Propanol	67-63-0	8015B	µg/kg			
Alcohols	Ethanol	64-17-5	8015B	µg/kg			
Alcohols	Methanol	67-56-1	8015B	µg/kg			
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B	ng/kg	8.92 J	149 J	-177.41
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B	ng/kg	0.658 J	9.95 J	-175.19
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B	ng/kg	0.212 J	0.723 J	-109.30
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B	ng/kg	0.19 J	1.84 J	-162.56
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	1613B	ng/kg	5.89 UJ	0.777 J	153.38
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B	ng/kg	0.477 J	5.53 J	-168.24
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	1613B	ng/kg	5.89 UJ	0.375 J	176.06
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B	ng/kg	0.526 J	4.31 J	-156.49
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	1613B	ng/kg	0.226 J	0.519 J	-78.66
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B	ng/kg	5.89 UJ	0.306 J	180.25
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B	ng/kg	0.144 J	1.05 J	-151.76
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	1613B	ng/kg	5.89 UJ	0.526 J	167.21
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B	ng/kg	5.89 UJ	5.89 UJ	--
Dioxins	2,3,7,8-TCDF	1746-01-6	1613B	ng/kg	0.0297 J	0.136 J	-128.30
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B	ng/kg	1.18 UJ	0.133 J	159.48
Dioxins	OCDD	3268-87-9	1613B	ng/kg	153 J	3350 J	-182.53
Dioxins	OCDF	39001-02-0	1613B	ng/kg	1.72 J	31.3 J	-179.16
Dioxins	0.558 J				0.558 J		2.6 J
Formaldehyde	Formaldehyde	50-00-0	8315A	µg/kg			
Glycols	Diethylene Glycol	111-46-6	8015M	mg/kg			
Glycols	Ethylene Glycol	107-21-1	8015M	mg/kg			
Glycols	Propylene Glycol	57-55-6	8015M	mg/kg			
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199	mg/kg			
Mercury	Mercury	7439-97-6	7471A	mg/kg	0.115 U	0.119 U	-3.42
Metals	Aluminum	7429-90-5	6020	mg/kg	15900	20000	-22.84
Metals	Antimony	7440-36-0	6020	mg/kg	0.178 J	0.222 J	-22.00
Metals	Arsenic	7440-38-2	6020	mg/kg	4.85	5.69	-15.94
Metals	Barium	7440-39-3	6020	mg/kg	100	120	-18.18
Metals	Beryllium	7440-41-7	6020	mg/kg	0.643	0.765	-17.33
Metals	Boron	7440-42-8	6020	mg/kg	2.84 J	3.73 J	-27.09
Metals	Cadmium	7440-43-9	6020	mg/kg	0.305 J	0.35 J	-13.74
Metals	Calcium	7440-70-2	6020	mg/kg	3030	3760	-21.50
Metals	Chromium	7440-47-3	6020	mg/kg	19.9	23.4	-16.17
Metals	Cobalt	7440-48-4	6020	mg/kg	6.49	6.79	-4.52
Metals	Copper	7440-50-8	6020	mg/kg	11.3	13.2	-15.51
Metals	Iron	7439-89-6	6020	mg/kg	20600	22400	-8.37
Metals	Lead	7439-92-1	6020	mg/kg	9.38	12.1	-25.33
Metals	Lithium	7439-93-2	6020	mg/kg	25	23.5	6.19
Metals	Magnesium	7439-95-4	6020	mg/kg	4500	4640	-3.06
Metals	Manganese	7439-96-5	6020	mg/kg	311	297	4.61
Metals	Molybdenum	7439-98-7	6020	mg/kg	0.419 J	0.492 J	-16.03
Metals	Nickel	7440-02-0	6020	mg/kg	11.8	13.7	-14.90
Metals	Phosphorus	7723-14-0	6020	mg/kg	278	241	14.26
Metals	Potassium	7440-09-07	6020	mg/kg	3430	3470	-1.16
Metals	Selenium	7782-49-2	6020	mg/kg	0.563 U	0.593 U	-5.19
Metals	Silver	7440-22-4	6020	mg/kg	0.322 J	0.39 J	-19.10
Metals	Sodium	7440-23-5	6020	mg/kg	70.9 J	77.6 J	-9.02
Metals	Strontium	7440-24-6	6020	mg/kg	21.7	28.7	-27.78
Metals	Thallium	7440-28-0	6020	mg/kg	0.265 J	0.273 J	-2.97
Metals	Tin	7440-31-5	6020	mg/kg	11.3 U	11.9 U	-5.17
Metals	Titanium	7440-32-6	6020	mg/kg	876	856	2.31
Metals	Vanadium	7440-62-2	6020	mg/kg	36.4	42.8	-16.16
Metals	Zinc	7440-66-6	6020	mg/kg	57.3	58.5	-2.07
Metals	Zirconium	7440-67-7	6020	mg/kg	5.63 UJ	5.93 UJ	-5.19
Moisture Content	Moisture	MOIST	160.3M	%	15.8	16.4	-3.73
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM	µg/kg	5.7 U	5.9 U	-3.45
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM	µg/kg	11 U	12 U	-8.70
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM	µg/kg	11 U	12 U	-8.70
PAHs	Acenaphthene	83-32-9	8270C SIM	µg/kg	11 U	12 U	-8.70
PAHs	Acenaphthylene	208-96-8	8270C SIM	µg/kg	11 U	12 U	-8.70
PAHs	Anthracene	120-12-7	8270C SIM	µg/kg	11 U	12 U	-8.70
PAHs	Azobenzene	103-33-3	8270C SIM	µg/kg	5.7 U	5.9 U	-3.45
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM	µg/kg	11 UJ	3.1 J	112.06
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM	µg/kg	11 U	12 U	-8.70
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM	µg/kg	4 J	7.4 J	-59.65
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM	µg/kg	3 J	5.4 J	-57.14
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM	µg/kg	11 UJ	5 J	75.00
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM	µg/kg	11 U	12 U	-8.70
PAHs	Chrysene	218-01-9	8270C SIM	µg/kg	11 UJ	4.9 J	76.73
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	µg/kg	11 U	12 U	-8.70
PAHs	Fluoranthene	206-44-0	8270C SIM	µg/kg	7.1 J	12 J	-51.31
PAHs	Fluorene	86-73-7	8270C SIM	µg/kg	11 U	12 U	-8.70
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM	µg/kg	11 UJ	5 J	75.00
PAHs	Naphthalene	91-20-3	8270C SIM	µg/kg	11 U	12 U	-8.70
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM	µg/kg	11 U	12 U	-8.70
PAHs	Phenanthrene	85-01-8	8270C SIM	µg/kg	4.3 J	5 J	-15.05
PAHs	Pyrene	129-00-0	8270C SIM	µg/kg	4.8 J	7.9 J	-48.82
PCBs/PCTs	Aroclor 1016	12674-11-2	8082	µg/kg	23 U	24 U	-4.26
PCBs/PCTs	Aroclor 1221	11104-28-2	8082	µg/kg	23 U	24 U	-4.26
PCBs/PCTs	Aroclor 1232	11141-16-5	8082	µg/kg	23 U	24 U	-4.26
PCBs/PCTs	Aroclor 1242	53469-21-9	8082	µg/kg	23 U	24 U	-4.26
PCBs/PCTs	Aroclor 1248	12672-29-6	8082	µg/kg	23 U	24 U	-4.26
PCBs/PCTs	Aroclor 1254	11097-69-1	8082	µg/kg	23 U	24 U	-4.26
PCBs/PCTs	Aroclor 1260	11096-82-5	8082	µg/kg	23 U	24 U	-4.26
PCBs/PCTs	Aroclor 1262	37324-23-5	8082	µg/kg	23 U	24 U	-4.26
PCBs/PCTs	Aroclor 1268	11100-14-4	8082	µg/kg	23 U	24 U	-4.26
PCBs/PCTs	Aroclor 5432	63496-31-1	8082	µg/kg	46 U	47 U	-2.15
PCBs/PCTs	Aroclor 5442	12642-23-8	8082	µg/kg	46 U	47 U	-2.15
PCBs/PCTs	Aroclor 5460	11126-42-4	8082	µg/kg	46 U	47 U	-2.15
Perchlorate	Perchlorate	14797-73-0	6850	µg/kg	5.75 U	5.93 U	-3.08
Pesticides	4,4'-DDD	72-54-8	8081A	µg/kg			
Pesticides	4,4'-DDE	72-55-9	8081A	µg/kg			
Pesticides	4,4'-DDT	50-29-3	8081A	µg/kg			
Pesticides	Aldrin	309-00-2	8081A	µg/kg			
Pesticides	Alpha-Bhc	319-84-6	8081A	µg/kg			
Pesticides	Beta-Bhc	319-85-7	8081A	µg/kg			
Pesticides	Chlordane (Technical)	12789-03-6	8081A	µg/kg			
Pesticides	Delta-Bhc	319-86-8	8081A	µg/kg			
Pesticides	Dieldrin	60-57-1	8081A	µg/kg			
Pesticides	Endosulfan I	959-98-8	8081A	µg/kg			
Pesticides	Endosulfan II	33213-65-9	8081A	µg/kg			
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	µg/kg			
Pesticides	Endrin	72-20-8	8081A	µg/kg			
Pesticides	Endrin Aldehyde	7421-93-4	8081A	µg/kg			
Pesticides	Endrin Ketone	53494-70-5	8081A	µg/kg			
Pesticides	Gamma-Bhc (Lindane)	58-89-9	8081A	µg/kg			
Pesticides	Heptachlor	76-44-8	8081A	µg/kg			
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	µg/kg			
Pesticides	Methoxychlor	72-43-5	8081A	µg/kg			
Pesticides	Mirex	2385-85-5	8081A	µg/kg			
Pesticides	Technical Toxaphene	8001-35-2	8081A	µg/kg			
pH	pH	pH	9045D	pH	7.5	7.37	1.75
TPH-EFH	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg			
TPH-EFH	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg			
TPH-EFH	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg			
TPH-EFH	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg			
TPH-EFH	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg			
TPH-GRO	Gasoline Range Organics (C5-C12)	GROCS12	8015B GRO	mg/kg			

µg/kg - microgram per kilogram  
mg/kg - milligram per kilogram  
ng/g - nanogram per kilogram  
FD - field duplicate sample  
N - normal sample  
RPD - relative percent difference  
SO - soil  
--- RPD not calculated when both field duplicate and normal samples were nondetect or 200\* - When one result is nondetect a 200% RPD is given and sample results are qualified  
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 - Subarea 5C Field Duplicate Results

MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit	5C_DG-512	5C_DG-512	RPD	5C_DG-514	5C_DG-514	RPD
					Sample Name:	Sample Date:		Sample Name:	Sample Date:	
					SL-812-SA5C-SB-0.0-0.5	SL-512-SA5C-SB-0.0-0.5		SL-814-SA5C-SB-0.0-0.5	SL-514-SA5C-SB-0.0-0.5	
					05/10/2012	05/10/2012		04/17/2012	04/17/2012	
					0	0		0	0	
					0.5	0.5		0.5	0.5	
					5C_DG	5C_DG		5C_DG	5C_DG	
					SO	SO		SO	SO	
					FD	N		FD	N	
Alcohols	2-Propanol	67-63-0	8015B	μg/kg						
Alcohols	Ethanol	64-17-5	8015B	μg/kg						
Alcohols	Methanol	67-56-1	8015B	μg/kg						
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B	ng/kg	312 J	173 J	57.32	35.6	48.3	-30.27
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B	ng/kg	39.1 J	20.6 J	61.98	4.57 J	6.59	-36.20
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B	ng/kg	1.89 J	1.28 J	38.49	0.479 J	0.569 J	-17.18
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B	ng/kg	2.14 J	2.26 J	-5.45	0.512 J	0.661 J	-25.40
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	1613B	ng/kg	5.27 J	2.08 J	86.80	0.451 J	0.605 J	-29.17
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B	ng/kg	14.8 J	7.14 J	69.83	2.16 J	2.45 J	-12.58
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	1613B	ng/kg	3.16 J	1.21 J	89.24	0.401 J	0.487 J	-19.37
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B	ng/kg	4.27 J	4.16 J	2.61	1.72 J	1.96 J	-13.04
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	1613B	ng/kg	2.47 J	0.762 J	105.69	0.839 J	0.737 J	12.94
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B	ng/kg	3.82 J	2.4 J	45.66	0.529 J	0.908 J	-52.75
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B	ng/kg	0.992 J	1.05 J	-5.68	0.39 J	0.495 J	-23.73
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	1613B	ng/kg	3.4 J	1.17 J	97.59	0.469 J	0.513 J	-8.96
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B	ng/kg	4.66 J	1.93 J	82.85	5.73 U	5.93 U	-3.43
Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.06 J	0.15 J	-34.38	1.15 U	1.19 U	-3.42
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B	ng/kg	0.83 J	0.554 J	39.88	0.284 J	0.313 J	-9.72
Dioxins	OCDD	3268-87-9	1613B	ng/kg	3050	2020	40.63	394	570 J	-36.51
Dioxins	OCDF	39001-02-0	1613B	ng/kg	44	53.9	-20.22	10.9 J	18.2 J	-50.17
Formaldehyde	Formaldehyde	50-00-0	8315A	μg/kg						
Glycols	Diethylene Glycol	111-46-6	8015M	mg/kg						
Glycols	Ethylene Glycol	107-21-1	8015M	mg/kg						
Glycols	Propylene Glycol	57-55-6	8015M	mg/kg						
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199	mg/kg						
Mercury	Mercury	7439-97-6	7471A	mg/kg	0.11 U	0.109 U	0.91	0.114 U	0.116 U	-1.74
Metals	Aluminum	7429-90-5	6020	mg/kg	14400	13500	6.45	9630 J	11000 J	-13.28
Metals	Antimony	7440-36-0	6020	mg/kg	0.273 J	0.22 J	7.44	0.273 J	0.229 J	17.53
Metals	Arsenic	7440-38-2	6020	mg/kg	4.56	3.79	18.44	3.32	3.35	-0.90
Metals	Barium	7440-39-3	6020	mg/kg	122 J	105 J	14.98	95 J	100 J	-5.13
Metals	Beryllium	7440-41-7	6020	mg/kg	0.647	0.588	9.55	0.504 J	0.487 J	3.43
Metals	Boron	7440-42-8	6020	mg/kg	3.57 J	3.39 J	5.17	5.66 U	5.81 U	-2.62
Metals	Cadmium	7440-43-9	6020	mg/kg	0.508 J	0.487 J	4.22	0.29 J	0.306 J	-2.67
Metals	Calcium	7440-70-2	6020	mg/kg	7360 J	4450 J	49.28	2130	2210	-3.69
Metals	Chromium	7440-47-3	6020	mg/kg	21.4	17.6	19.49	28.7 J	15.4 J	60.32
Metals	Cobalt	7440-48-4	6020	mg/kg	7.52 J	6.07 J	21.34	5.77	5.76	0.17
Metals	Copper	7440-50-8	6020	mg/kg	10.7 J	11.9 J	-10.62	9.64	9.87	-2.36
Metals	Iron	7439-89-6	6020	mg/kg	20500	18200	11.89	14300	14400	-0.70
Metals	Lead	7439-92-1	6020	mg/kg	13.8 J	12.2 J	12.31	14.1	13.7	2.88
Metals	Lithium	7439-93-2	6020	mg/kg	15.2	13.1	14.84	8.83	9.05	-2.46
Metals	Magnesium	7439-95-4	6020	mg/kg	4070	3480	15.63	2480	2770	-11.05
Metals	Manganese	7439-96-5	6020	mg/kg	294 J	258 J	13.04	276 J	286 J	-3.56
Metals	Molybdenum	7439-98-7	6020	mg/kg	0.524	0.522 J	0.38	0.849	0.667	24.01
Metals	Nickel	7440-02-0	6020	mg/kg	13.1 J	11.2 J	15.64	17.3 J	10.3 J	50.72
Metals	Phosphorus	7723-14-0	6020	mg/kg	257	217	16.88	189	196	-3.64
Metals	Potassium	7440-09-07	6020	mg/kg	2680	2530	5.76	2500	2670	-6.58
Metals	Selenium	7782-49-2	6020	mg/kg	0.25 J	0.534 UJ	-72.45	0.566 U	0.581 U	-2.62
Metals	Silver	7440-22-4	6020	mg/kg	0.761	0.619	20.58	0.0648 J	0.066 J	-1.83
Metals	Sodium	7440-23-5	6020	mg/kg	85.2 J	82 J	3.83	66.7 J	65.7 J	1.51
Metals	Strontium	7440-24-6	6020	mg/kg	35.2	25.5	31.96	22	22.7	-3.13
Metals	Thallium	7440-28-0	6020	mg/kg	0.233 J	0.216 J	7.57	0.226 J	0.227 J	-0.44
Metals	Tin	7440-31-5	6020	mg/kg	10.5 U	10.7 U	-1.89	11.3 U	11.6 U	-2.62
Metals	Titanium	7440-32-6	6020	mg/kg	700	718	-2.54	630	652	-3.43
Metals	Vanadium	7440-62-2	6020	mg/kg	38.6	33.9	12.97	29.7	30.3	-2.00
Metals	Zinc	7440-66-6	6020	mg/kg	92.7	69.8	28.18	40.4	42.4	-4.83
Metals	Zirconium	7440-67-7	6020	mg/kg	5.24 UJ	5.34 UJ	-1.89	5.66 UJ	5.81 UJ	-2.62
Moisture Content	Moisture	MOIST	160.3M	%	9.9	11.3	-13.21	12.7	15.8	-21.75
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM	μg/kg	11 U	11 U	--	5.8 U	5.8 U	--
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM	μg/kg	22 U	22 U	--	12 U	12 U	--
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM	μg/kg	22 U	22 U	--	12 U	12 U	--
PAHs	Acenaphthene	83-32-9	8270C SIM	μg/kg	22 U	22 U	--	12 U	12 U	--
PAHs	Acenaphthylene	208-96-8	8270C SIM	μg/kg	22 U	22 U	--	12 U	12 U	--
PAHs	Anthracene	120-12-7	8270C SIM	μg/kg	22 U	22 U	--	12 U	12 U	--
PAHs	Azobenzene	103-33-3	8270C SIM	μg/kg	11 U	11 U	--	5.8 U	5.8 U	--
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM	μg/kg	21 J	26	-21.28	12 U	12 U	--
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM	μg/kg	24	33	-31.58	12 U	12 U	--
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM	μg/kg	35	49 J	-33.33	3.6 J	3 J	18.18
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM	μg/kg	22	29	-27.45	5.8 UJ	5.8 U	--
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM	μg/kg	18 J	26	-36.36	12 U	12 U	--
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM	μg/kg	7.7 J	10 J	-25.99	12 U	12 U	--
PAHs	Chrysene	218-01-9	8270C SIM	μg/kg	22	26	-16.67	12 U	12 U	--
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	μg/kg	22 UJ	6.2 J	112.06	12 U	12 U	--
PAHs	Fluoranthene	206-44-0	8270C SIM	μg/kg	39	39 J	--	4.9 J	3.7 J	27.91
PAHs	Fluorene	86-73-7	8270C SIM	μg/kg	22 U	22 U	--	12 U	12 U	--
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM	μg/kg	11 J	16 J	-37.04	12 U	12 U	--
PAHs	Naphthalene	91-20-3	8270C SIM	μg/kg	22 U	22 U	--	12 U	12 U	--
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM	μg/kg	22 U	22 U	--	12 U	12 U	--
PAHs	Phenanthrene	85-01-8	8270C SIM	μg/kg	15 J	12 J	22.22	12 UJ	12 U	--
PAHs	Pyrene	129-00-0	8270C SIM	μg/kg	39	46 J	-16.47	4.3 J	3 J	35.62
PCBsPCTs	Aroclor 1016	12674-11-2	8082	μg/kg	22 U	22 U	--	23 U	23 U	--
PCBsPCTs	Aroclor 1221	11104-28-2	8082	μg/kg	22 U	22 U	--	23 U	23 U	--
PCBsPCTs	Aroclor 1232	11141-16-5	8082	μg/kg	22 U	22 U	--	23 U	23 U	--
PCBsPCTs	Aroclor 1242	53469-21-9	8082	μg/kg	22 U	22 U	--	23 U	23 U	--
PCBsPCTs	Aroclor 1248	12672-29-6	8082	μg/kg	22 U	22 U	--	23 U	23 U	--
PCBsPCTs	Aroclor 1254	11097-69-1	8082	μg/kg	22 U	22 U	--	23 U	23 U	--
PCBsPCTs	Aroclor 1260	11096-82-5	8082	μg/kg	22	21 J	4.65	23 U	23 U	--
PCBsPCTs	Aroclor 1262	37324-23-5	8082	μg/kg	22 U	22 U	--	23 U	23 U	--
PCBsPCTs	Aroclor 1268	11100-14-4	8082	μg/kg	22 U	22 U	--	23 U	23 U	--
PCBsPCTs	Aroclor 5432	63496-31-1	8082	μg/kg	44 U	44 U	--	46 U	46 U	--
PCBsPCTs	Aroclor 5442	12642-23-8	8082	μg/kg	44 U	44 U	--	46 U	46 U	--
PCBsPCTs	Aroclor 5460	11126-42-4	8082	μg/kg	44 U	44 U	--	46 U	46 U	--
Perchlorate	Perchlorate	14797-73-0	6850	μg/kg	5.52 U	5.49 U	0.54	5.8 U	5.81 U	-0.17
Pesticides	4,4'-DDD	72-54-8	8081A	μg/kg						
Pesticides	4,4'-DDE	72-55-9	8081A	μg/kg						
Pesticides	4,4'-DDT	50-29-3	8081A	μg/kg						
Pesticides	Aldrin	309-00-2	8081A	μg/kg						
Pesticides	Alpha-Bhc	319-84-6	8081A	μg/kg						
Pesticides	Beta-Bhc	319-85-7	8081A	μg/kg						
Pesticides	Chlordane (Technical)									

Table C-5 - Subarea 5C Field Duplicate Results

		Location		5C_DG-522		5C_DG-522		5C_DG-528		5C_DG-528		
		Sample Name:		SL-822-SA5C-SB-4.0-5.0		SL-522-SA5C-SB-4.0-5.0		SL-822-SA5C-SB-4.0-5.0		SL-528-SA5C-SB-4.0-5.0		
		Sample Date:		07/09/2012		07/09/2012		06/19/2012		06/19/2012		
		End Depth:		4		4		4		4		
		Area:		5C_DG		5C_DG		5C_DG		5C_DG		
		Matrix:		SO		SO		SO		SO		
		Sample Type:		FD		N		FD		N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result	Unit							
Alcohols	2-Propanol	67-63-0	8015B		µg/kg							
Alcohols	Ethanol	64-17-5	8015B		µg/kg							
Alcohols	Methanol	67-56-1	8015B		µg/kg							
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B	4.4	J	4.15	J	5.85				
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B	0.53	J	0.55	J	-3.70				
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B	0.0758	J	5.38	UJ	-194.44				
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B	0.089	J	0.171	J	-63.08				
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	1613B	5.44	UJ	5.38	UJ	1.11				
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B	0.296	J	0.344	J	-15.00				
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	1613B	0.0849	J	0.0858	J	-1.05				
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B	0.338	J	0.326	J	3.61				
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	1613B	5.44	UJ	0.255	J	182.09				
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B	5.44	UJ	5.38	UJ	1.11				
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B	5.44	UJ	5.38	UJ	1.11				
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	1613B	5.44	UJ	5.38	UJ	1.11				
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B	5.44	UJ	5.38	UJ	1.11				
Dioxins	2,3,7,8-TCDF	1746-01-6	1613B	1.09	UJ	0.0543	J	181.02				
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B	1.09	UJ	1.08	UJ	0.92				
Dioxins	OCDD	3268-87-9	1613B	37.4	UJ	35.5	UJ	5.21				
Dioxins	OCDF	39001-02-0	1613B	1.55	J	1.32	J	16.03				
Formaldehyde	Formaldehyde	50-00-0	8315A		µg/kg							
Glycols	Diethylene Glycol	111-46-6	8015M		mg/kg							
Glycols	Ethylene Glycol	107-21-1	8015M		mg/kg							
Glycols	Propylene Glycol	57-55-6	8015M		mg/kg							
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199		mg/kg							
Mercury	Mercury	7439-97-6	7471A	0.109	U	0.108	U	0.92	0.0815	J	0.136	J
Metals	Aluminum	7429-90-5	6020	17800	mg/kg	15800		11.90	16200		14400	
Metals	Antimony	7440-36-0	6020	0.167	J	0.2	J	-17.98	0.265	J	0.251	J
Metals	Arsenic	7440-38-2	6020	5.53		4.72		15.80	5.08		4.1	
Metals	Barium	7440-39-3	6020	141		136		3.61	108		100	
Metals	Beryllium	7440-41-7	6020	0.791		0.749		5.45	0.77		0.618	
Metals	Boron	7440-42-8	6020	5.31	U	5.36	U	-0.94	5.24	U	5.2	U
Metals	Cadmium	7440-43-9	6020	0.267	J	0.246	J	8.19	0.15	J	0.154	J
Metals	Calcium	7440-70-2	6020	2920		2750		6.00	2530		2330	
Metals	Chromium	7440-47-3	6020	22		21.3		3.23	20		18.8	
Metals	Cobalt	7440-48-4	6020	6.5	J	5.72	J	12.77	7.26		5.13	
Metals	Copper	7440-50-8	6020	9.76		9.69		0.72	7.65		7.26	
Metals	Iron	7439-89-6	6020	23600		22200		6.11	20600		18000	
Metals	Lead	7439-92-1	6020	6.5		6.3		3.13	6.82		6.01	
Metals	Lithium	7439-93-2	6020	25.9		21.1		20.43	14.7		12.8	
Metals	Magnesium	7439-95-4	6020	5050		4580		9.76	3980		3610	
Metals	Manganese	7439-96-5	6020	332		255		26.24	264		221	
Metals	Molybdenum	7439-98-7	6020	0.447	J	0.512	J	-13.56	1.18		1.21	
Metals	Nickel	7440-02-0	6020	14.9		13.4		10.60	10.9		9.13	
Metals	Phosphorus	7723-14-0	6020	179		155		14.37	162		142	
Metals	Potassium	7440-09-07	6020	1930		1900		1.57	2470		2360	
Metals	Selenium	7782-49-2	6020	0.531	U	0.536	U	-0.94	0.524	U	0.52	U
Metals	Silver	7440-22-4	6020	0.062	J	0.0616	J	0.65	0.524	U	0.52	U
Metals	Sodium	7440-23-5	6020	154		139		10.24	466		408	
Metals	Strontium	7440-24-6	6020	30.6		29.6		3.32	29.1		25.7	
Metals	Thallium	7440-28-0	6020	0.277	J	0.26	J	6.33	0.265	J	0.25	J
Metals	Tin	7440-31-5	6020	10.6	U	10.7	U	-0.94	10.5	U	10.4	U
Metals	Titanium	7440-32-6	6020	965		843		13.50	861		815	
Metals	Vanadium	7440-62-2	6020	41.4		38.9		6.23	38.5		33.2	
Metals	Zinc	7440-66-6	6020	55.1		51.9		5.98	41.3		37.8	
Metals	Zirconium	7440-67-7	6020	5.31	U	5.36	U	-0.94	5.24	U	5.2	UJ
Moisture Content	Moisture	MOIST	160.3M	8.1	%	7.1	%	13.16				
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM	5.5	U	5.4	U	1.83	5.3	U	5.4	U
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Acenaphthene	83-32-9	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Acenaphthylene	208-96-8	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Anthracene	120-12-7	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Azobenzene	103-33-3	8270C SIM	5.5	U	5.4	U	1.83	5.3	U	5.4	U
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM	5.5	U	5.4	U	1.83	5.3	UJ	5.4	U
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Chrysene	218-01-9	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Fluoranthene	206-44-0	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Fluorene	86-73-7	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Naphthalene	91-20-3	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Phenanthrene	85-01-8	8270C SIM	11	U	11	U	--	11	UJ	11	U
PAHs	Pyrene	129-00-0	8270C SIM	11	U	11	U	--	11	UJ	11	U
PCBsPCTs	Aroclor 1016	12674-11-2	8082	22	U	22	U	--	21	U	21	U
PCBsPCTs	Aroclor 1221	11104-28-2	8082	22	U	22	U	--	21	U	21	U
PCBsPCTs	Aroclor 1232	11141-16-5	8082	22	U	22	U	--	21	U	21	U
PCBsPCTs	Aroclor 1242	53469-21-9	8082	22	U	22	U	--	21	U	21	U
PCBsPCTs	Aroclor 1248	12672-29-6	8082	22	U	22	U	--	21	U	21	U
PCBsPCTs	Aroclor 1254	11097-69-1	8082	22	U	22	U	--	21	U	21	U
PCBsPCTs	Aroclor 1260	11096-82-5	8082	22	U	22	U	--	21	U	21	U
PCBsPCTs	Aroclor 1262	37324-23-5	8082	22	U	22	U	--	21	U	21	U
PCBsPCTs	Aroclor 1268	11100-14-4	8082	22	U	22	U	--	21	U	21	U
PCBsPCTs	Aroclor 5432	63496-31-1	8082	44	U	43	U	2.30	43	U	43	U
PCBsPCTs	Aroclor 5442	12642-23-8	8082	44	U	43	U	2.30	43	U	43	U
PCBsPCTs	Aroclor 5460	11126-42-4	8082	44	U	43	U	2.30	43	U	43	U
Perchlorate	Perchlorate	14797-73-0	6850	5.52	U	5.42	U	1.83				
Pesticides	4,4'-DDD	72-54-8	8081A		µg/kg							
Pesticides	4,4'-DDE	72-55-9	8081A		µg/kg							
Pesticides	4,4'-DDT	50-29-3	8081A		µg/kg							
Pesticides	Aldrin	309-00-2	8081A		µg/kg							
Pesticides	Alpha-Bhc	319-84-6	8081A		µg/kg							
Pesticides	Beta-Bhc	319-85-7	8081A		µg/kg							
Pesticides	Chlordane (Technical)	12789-03-6										

Table C-5 - Subarea 5C Field Duplicate Results

	Location	5C_DG-528	5C_DG-528		5C_DG-546	5C_DG-546	
	Sample Name:	SL-828-SA5C-SB-5.0	SL-528-SA5C-SB-5.0	Sample Name:	SL-846-SA5C-SB-4.0-5.0	SL-546-SA5C-SB-4.0-5.0	RPD
	Sample Date:	06/19/2012	06/19/2012	Sample Date:	06/06/2012	06/06/2012	
	Start Depth:	5	5	Start Depth:	4	4	
	End Depth:	5	5	End Depth:	5	5	RPD
	Area:	5C_DG	5C_DG	Area:	5C_DG	5C_DG	
	Matrix:	SO	SO	Matrix:	SO	SO	
	Sample Type:	FD	N	Sample Type:	FD	N	
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit			
Alcohols	2-Propanol	67-63-0	8015B	µg/kg			
Alcohols	Ethanol	64-17-5	8015B	µg/kg	590 U	580 U	1.71
Alcohols	Methanol	67-56-1	8015B	µg/kg	590 U	580 U	1.71
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B	ng/kg			
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B	ng/kg			
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B	ng/kg			
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B	ng/kg			
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	1613B	ng/kg			
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B	ng/kg			
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	1613B	ng/kg			
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B	ng/kg			
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	1613B	ng/kg			
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B	ng/kg			
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B	ng/kg			
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	1613B	ng/kg			
Dioxins	2,3,4,7,8-PECDF	57117-31-4	1613B	ng/kg			
Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg			
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B	ng/kg			
Dioxins	OCDD	3268-87-9	1613B	ng/kg			
Dioxins	OCDF	39001-02-0	1613B	ng/kg			
Formaldehyde	Formaldehyde	50-00-0	8315A	µg/kg			
Glycols	Diethylene Glycol	111-46-6	8015M	mg/kg	18 U	17 U	5.71
Glycols	Ethylene Glycol	107-21-1	8015M	mg/kg	12 U	12 U	--
Glycols	Propylene Glycol	57-55-6	8015M	mg/kg	12 U	12 U	--
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199	mg/kg			
Mercury	Mercury	7439-97-6	7471A	mg/kg	0.116 U	0.115 U	0.87
Metals	Aluminum	7429-90-5	6020	mg/kg	22600	18300	21.03
Metals	Antimony	7440-36-0	6020	mg/kg	0.282 J	0.216 J	26.51
Metals	Arsenic	7440-38-2	6020	mg/kg	6.22	4.92	23.34
Metals	Barium	7440-39-3	6020	mg/kg	224	151	38.93
Metals	Beryllium	7440-41-7	6020	mg/kg	0.943	0.809	15.30
Metals	Boron	7440-42-8	6020	mg/kg	5.55 U	5.77 U	-3.89
Metals	Cadmium	7440-43-9	6020	mg/kg	0.566 J	0.141 J	120.23
Metals	Calcium	7440-70-2	6020	mg/kg	3940	3280	18.28
Metals	Chromium	7440-47-3	6020	mg/kg	25.7	21	20.13
Metals	Cobalt	7440-48-4	6020	mg/kg	16.6 J	5.4 J	101.82
Metals	Copper	7440-50-8	6020	mg/kg	10.5	7.13	38.23
Metals	Iron	7439-89-6	6020	mg/kg	26800	23300	13.97
Metals	Lead	7439-92-1	6020	mg/kg	9.74	6.99	32.88
Metals	Lithium	7439-93-2	6020	mg/kg	21.4	16.5	25.86
Metals	Magnesium	7439-95-4	6020	mg/kg	5290	4470	16.80
Metals	Manganese	7439-96-5	6020	mg/kg	1140 J	198 J	140.81
Metals	Molybdenum	7439-98-7	6020	mg/kg	0.579	0.402 J	36.09
Metals	Nickel	7440-02-0	6020	mg/kg	24.4 J	11.3 J	73.39
Metals	Phosphorus	7723-14-0	6020	mg/kg	120	95.6	22.63
Metals	Potassium	7440-09-07	6020	mg/kg	1880	1720	8.89
Metals	Selenium	7782-49-2	6020	mg/kg	0.555 U	0.577 U	-3.89
Metals	Silver	7440-22-4	6020	mg/kg	0.0715 J	0.0624 J	13.59
Metals	Sodium	7440-23-5	6020	mg/kg	175	156	11.48
Metals	Strontium	7440-24-6	6020	mg/kg	41	33.4	20.43
Metals	Thallium	7440-28-0	6020	mg/kg	0.404 J	0.263 J	42.28
Metals	Tin	7440-31-5	6020	mg/kg	11.1 U	11.5 U	-3.54
Metals	Titanium	7440-32-6	6020	mg/kg	732	768	-4.80
Metals	Vanadium	7440-62-2	6020	mg/kg	48.8	41.3	16.65
Metals	Zinc	7440-66-6	6020	mg/kg	50.9	43	16.83
Metals	Zirconium	7440-67-7	6020	mg/kg	5.55 U	5.77 U	-3.89
Moisture Content	Moisture	MOIST	160.3M	%			
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM	µg/kg	5.9 U	5.8 U	1.71
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM	µg/kg	12 U	12 U	--
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Acenaphthene	83-32-9	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Acenaphthylene	208-96-8	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Anthracene	120-12-7	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Azobenzene	103-33-3	8270C SIM	µg/kg	5.9 U	5.8 U	1.71
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM	µg/kg	5.9 U	5.8 U	1.71
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Chrysene	218-01-9	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Fluoranthene	206-44-0	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Fluorene	86-73-7	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Naphthalene	91-20-3	8270C SIM	µg/kg	12 U	12 U	--
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Phenanthrene	85-01-8	8270C SIM	µg/kg	12 U	12 U	--
PAHs	Pyrene	129-00-0	8270C SIM	µg/kg	12 U	12 U	--
PCBsPCTs	Aroclor 1016	12674-11-2	8082	µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1221	11104-28-2	8082	µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1232	11141-16-5	8082	µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1242	53469-21-9	8082	µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1248	12672-29-6	8082	µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1254	11097-69-1	8082	µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1260	11096-82-5	8082	µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1262	37324-23-5	8082	µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1268	11100-14-4	8082	µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 5432	63496-31-1	8082	µg/kg	47 U	46 U	2.15
PCBsPCTs	Aroclor 5442	12642-23-8	8082	µg/kg	47 U	46 U	2.15
PCBsPCTs	Aroclor 5460	11126-42-4	8082	µg/kg	47 U	46 U	2.15
Perchlorate	Perchlorate	14797-73-0	6850	µg/kg			
Pesticides	4,4'-DDD	72-54-8	8081A	µg/kg			
Pesticides	4,4'-DDE	72-55-9	8081A	µg/kg			
Pesticides	4,4'-DDT	50-29-3	8081A	µg/kg			
Pesticides	Aldrin	309-00-2	8081A	µg/kg			
Pesticides	Alpha-Bhc	319-84-6	8081A	µg/kg			
Pesticides	Beta-Bhc	319-85-7	8081A	µg/kg			
Pesticides	Chlordane (Technical)	12789-03-6	8081A	µg/kg			
Pesticides	Delta-Bhc	319-86-8	8081A	µg/kg			
Pesticides	Dieldrin	60-57-1	8081A	µg/kg			
Pesticides	Endosulfan I	959-98-8	8081A	µg/kg			
Pesticides	Endosulfan II	33213-65-9	8081A	µg/kg			
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	µg/kg			
Pesticides	Endrin	72-20-8	8081A	µg/kg			
Pesticides	Endrin Aldehyde	7421-93-4	8081A	µg/kg			
Pesticides	Endrin Ketone	53494-70-5	8081A	µg/kg			
Pesticides	Gamma-Bhc (Lindane)	58-89-9	8081A	µg/kg			
Pesticides	Heptachlor	76-44-8	8081A	µg/kg			
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	µg/kg			
Pesticides	Methoxychlor	72-43-5	8081A	µg/kg			
Pesticides	Mirex	2385-85-5	8081A	µg/kg			
Pesticides	Technical Toxaphene	8001-35-2	8081A	µg/kg			
pH	pH	pH	9045D	pH	7.38	7.61	-3.07
TPH-EFH	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg	5.9 U	5.8 U	1.71
TPH-EFH	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg	5.9 U	5.8 U	1.71
TPH-EFH	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg	5.9 U	5.8 U	1.71
TPH-EFH	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg	12 U	12 U	--
TPH-EFH	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg	5.9 U	5.8 U	1.71
TPH-GRO	Gasoline Range Organics (C5-C12)	GROC5C12	8015B GRO	mg/kg	1.2 U	0.96 U	22.22

µg/kg - microgram per kilogram

mg/kg - milligram per kilogram

ng/g - nanogram per kilogram

FD - field duplicate sample

N - normal sample

RPD - relative percent difference

SO - soil

- - - RPD not calculated when both field duplicate and normal samples were nondetect or 200\* - When one result is nondetect a 200% RPD is given and sample results are qualified

Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 - Subarea 5C Field Duplicate Results

Location				5C_DG-546	5C_DG-546	5C_DG-556D	5C_DG-556D	RPD
Sample Name:	Sample Date:	Start Depth:	End Depth:	5C_DG-546	5C_DG-546	5C_DG-556D	5C_DG-556D	RPD
				SL-846-SA5C-SB-5.0	SL-546-SA5C-SB-5.0	SL-856D-SA5C-SB-0.0-0.5	SL-556D-SA5C-SB-0.0-0.5	
				06/06/2012	06/06/2012	04/24/2012	04/24/2012	
				5	5	0	0	
				5	5	0.5	0.5	
				5C_DG	5C_DG	5C_DG	5C_DG	
				SO	SO	SO	SO	
				FD	N	FD	N	
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result	Unit			
Alcohols	2-Propanol	67-63-0	8015B		µg/kg			
Alcohols	Ethanol	64-17-5	8015B		µg/kg			
Alcohols	Methanol	67-56-1	8015B		µg/kg			
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B		ng/kg			
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B		ng/kg			
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B		ng/kg			
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B		ng/kg			
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	1613B		ng/kg			
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B		ng/kg			
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	1613B		ng/kg			
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B		ng/kg			
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	1613B		ng/kg			
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B		ng/kg			
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B		ng/kg			
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	1613B		ng/kg			
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B		ng/kg			
Dioxins	2,3,7,8-TCDD	1746-01-6	1613B		ng/kg			
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B		ng/kg			
Dioxins	OCDD	3268-87-9	1613B		ng/kg			
Dioxins	OCDF	39001-02-0	1613B		ng/kg			
Formaldehyde	Formaldehyde	50-00-0	8315A		µg/kg			
Glycols	Diethylene Glycol	111-46-6	8015M		mg/kg			
Glycols	Ethylene Glycol	107-21-1	8015M		mg/kg			
Glycols	Propylene Glycol	57-55-6	8015M		mg/kg			
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199		mg/kg			
Mercury	Mercury	7439-97-6	7471A		mg/kg			
Metals	Aluminum	7429-90-5	6020		mg/kg			
Metals	Antimony	7440-36-0	6020		mg/kg			
Metals	Arsenic	7440-38-2	6020		mg/kg			
Metals	Barium	7440-39-3	6020		mg/kg			
Metals	Beryllium	7440-41-7	6020		mg/kg			
Metals	Boron	7440-42-8	6020		mg/kg			
Metals	Cadmium	7440-43-9	6020		mg/kg			
Metals	Calcium	7440-70-2	6020		mg/kg			
Metals	Chromium	7440-47-3	6020		mg/kg			
Metals	Cobalt	7440-48-4	6020		mg/kg			
Metals	Copper	7440-50-8	6020		mg/kg			
Metals	Iron	7439-89-6	6020		mg/kg			
Metals	Lead	7439-92-1	6020		mg/kg			
Metals	Lithium	7439-93-2	6020		mg/kg			
Metals	Magnesium	7439-95-4	6020		mg/kg			
Metals	Manganese	7439-96-5	6020		mg/kg			
Metals	Molybdenum	7439-98-7	6020		mg/kg			
Metals	Nickel	7440-02-0	6020		mg/kg			
Metals	Phosphorus	7723-14-0	6020		mg/kg			
Metals	Potassium	7440-09-07	6020		mg/kg			
Metals	Selenium	7782-49-2	6020		mg/kg			
Metals	Silver	7440-22-4	6020		mg/kg			
Metals	Sodium	7440-23-5	6020		mg/kg			
Metals	Strontium	7440-24-6	6020		mg/kg			
Metals	Thallium	7440-28-0	6020		mg/kg			
Metals	Tin	7440-31-5	6020		mg/kg			
Metals	Titanium	7440-32-6	6020		mg/kg			
Metals	Vanadium	7440-62-2	6020		mg/kg			
Metals	Zinc	7440-66-6	6020		mg/kg			
Metals	Zirconium	7440-67-7	6020		mg/kg			
Moisture Content	Moisture	MOIST	160.3M		%			
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM		µg/kg			
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM		µg/kg			
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM		µg/kg			
PAHs	Acenaphthene	83-32-9	8270C SIM		µg/kg			
PAHs	Acenaphthylene	208-96-8	8270C SIM		µg/kg			
PAHs	Anthracene	120-12-7	8270C SIM		µg/kg			
PAHs	Azobenzene	103-33-3	8270C SIM		µg/kg			
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM		µg/kg			
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM		µg/kg			
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM		µg/kg			
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM		µg/kg			
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM		µg/kg			
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM		µg/kg			
PAHs	Chrysene	218-01-9	8270C SIM		µg/kg			
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM		µg/kg			
PAHs	Fluoranthene	206-44-0	8270C SIM		µg/kg			
PAHs	Fluorene	86-73-7	8270C SIM		µg/kg			
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM		µg/kg			
PAHs	Naphthalene	91-20-3	8270C SIM		µg/kg			
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM		µg/kg			
PAHs	Phenanthrene	85-01-8	8270C SIM		µg/kg			
PAHs	Pyrene	129-00-0	8270C SIM		µg/kg			
PCBsPCTs	Aroclor 1016	12674-11-2	8082		µg/kg	22 U	21 U	4.65
PCBsPCTs	Aroclor 1221	11104-28-2	8082		µg/kg	22 U	21 U	4.65
PCBsPCTs	Aroclor 1232	11141-16-5	8082		µg/kg	22 U	21 U	4.65
PCBsPCTs	Aroclor 1242	53469-21-9	8082		µg/kg	22 U	21 U	4.65
PCBsPCTs	Aroclor 1248	12672-29-6	8082		µg/kg	22 U	21 U	4.65
PCBsPCTs	Aroclor 1254	11097-69-1	8082		µg/kg	22 U	21 U	4.65
PCBsPCTs	Aroclor 1260	11096-82-5	8082		µg/kg	22 U	21 U	4.65
PCBsPCTs	Aroclor 1262	37324-23-5	8082		µg/kg	22 U	21 U	4.65
PCBsPCTs	Aroclor 1268	11100-14-4	8082		µg/kg	22 U	21 U	4.65
PCBsPCTs	Aroclor 5432	63496-31-1	8082		µg/kg	43 U	42 U	2.35
PCBsPCTs	Aroclor 5442	12642-23-8	8082		µg/kg	43 U	42 U	2.35
PCBsPCTs	Aroclor 5460	11126-42-4	8082		µg/kg	43 U	42 U	2.35
Perchlorate	Perchlorate	14797-73-0	6850		µg/kg			
Pesticides	4,4'-DDD	72-54-8	8081A		µg/kg			
Pesticides	4,4'-DDE	72-55-9	8081A		µg/kg			
Pesticides	4,4'-DDT	50-29-3	8081A		µg/kg			
Pesticides	Aldrin	309-00-2	8081A		µg/kg			
Pesticides	Alpha-Bhc	319-84-6	8081A		µg/kg			
Pesticides	Beta-Bhc	319-85-7	8081A		µg/kg			
Pesticides	Chlordane (Technical)	12789-03-6	8081A		µg/kg			
Pesticides	Delta-Bhc	319-86-8	8081A		µg/kg			
Pesticides	Dieldrin	60-57-1	8081A		µg/kg			
Pesticides	Endosulfan I	959-98-8	8081A		µg/kg			
Pesticides	Endosulfan II	33213-65-9	8081A		µg/kg			
Pesticides	Endosulfan Sulfate	1031-07-8	8081A		µg/kg			
Pesticides	Endrin	72-20-8	8081A		µg/kg			
Pesticides	Endrin Aldehyde	7421-93-4	8081A		µg/kg			
Pesticides	Endrin Ketone	53494-70-5	8081A		µg/kg			
Pesticides	Gamma-Bhc (Lindane)	58-89-9	8081A		µg/kg			
Pesticides	Heptachlor	76-44-8	8081A		µg/kg			
Pesticides	Heptachlor Epoxide	1024-57-3	8081A		µg/kg			
Pesticides	Methoxychlor	72-43-5	8081A		µg/kg			
Pesticides	Mirex	2385-85-5	8081A		µg/kg			
Pesticides	Technical Toxaphene	8001-35-2	8081A		µg/kg			
pH	pH	pH	9045D		pH			
TPH-EFH	EFH (C12-C14)	PHCC12C14	8015B EFH		mg/kg			
TPH-EFH	EFH (C15-C20)	PHCC15C20	8015B EFH		mg/kg			
TPH-EFH	EFH (C21-C30)	PHCC21C30	8015B EFH		mg/kg			
TPH-EFH	EFH (C30-C40)	PHCC30C40	8015B EFH		mg/kg			
TPH-EFH	EFH (C8-C11)	PHCC8C11	8015B EFH		mg/kg			
TPH-GRO	Gasoline Range Organics (C5-C12)	GROC5C12	8015B GRO	1 U	mg/kg	0.98 U	2.02	

µg/kg - microgram per kilogram

mg/kg - milligram per kilogram

ng/g - nanogram per kilogram

FD - field duplicate sample

N - normal sample

RPD - relative percent difference

SO - soil

--- RPD not calculated when both field duplicate and normal samples were nondetect or

200\* - When one result is nondetect a 200% RPD is given and sample results are qualified

Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 - Subarea 5C Field Duplicate Results

Location		5C_DG-556D	5C_DG-556D		5C_DG-572	5C_DG-572	
Sample Name:		SL-856D-SA5C-SB-2.0-3.0	SL-556D-SA5C-SB-2.0-3.0	RPD	SL-872-SA5C-SB-4.0-5.0	SL-572-SA5C-SB-4.0-5.0	RPD
Sample Date:		05/15/2012	05/15/2012		06/19/2012	06/19/2012	
Start Depth:		2	2		4	4	
End Depth:		3	3		5	5	
Area:		5C_DG	5C_DG		5C_DG	5C_DG	
Matrix:		SO	SO		SO	SO	
Sample Type:		FD	N		FD	N	
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit			
Alcohols	2-Propanol	67-63-0	8015B	µg/kg			
Alcohols	Ethanol	64-17-5	8015B	µg/kg	540 U	530 U	1.87
Alcohols	Methanol	67-56-1	8015B	µg/kg	540 U	530 U	1.87
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B	ng/kg			
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B	ng/kg			
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B	ng/kg			
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B	ng/kg			
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	1613B	ng/kg			
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B	ng/kg			
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	1613B	ng/kg			
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B	ng/kg			
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	1613B	ng/kg			
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B	ng/kg			
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B	ng/kg			
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	1613B	ng/kg			
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B	ng/kg			
Dioxins	2,3,7,8-TCDF	1746-01-6	1613B	ng/kg			
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B	ng/kg			
Dioxins	OCDF	3268-87-9	1613B	ng/kg			
Dioxins	OCDF	39001-02-0	1613B	ng/kg			
Formaldehyde	Formaldehyde	50-00-0	8315A	µg/kg			
Glycols	Diethylene Glycol	111-46-6	8015M	mg/kg	16 U	16 U	--
Glycols	Ethylene Glycol	107-21-1	8015M	mg/kg	11 U	11 U	--
Glycols	Propylene Glycol	57-55-6	8015M	mg/kg	11 U	11 U	--
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199	mg/kg			
Mercury	Mercury	7439-97-6	7471A	mg/kg	0.107 U	0.106 U	0.94
Metals	Aluminum	7429-90-5	6020	mg/kg	11900	10800	9.69
Metals	Antimony	7440-36-0	6020	mg/kg	0.155 J	0.166 J	-6.85
Metals	Arsenic	7440-38-2	6020	mg/kg	3.78	3.5	7.69
Metals	Barium	7440-39-3	6020	mg/kg	68.1	66.1	2.98
Metals	Beryllium	7440-41-7	6020	mg/kg	0.472 J	0.458 J	3.01
Metals	Boron	7440-42-8	6020	mg/kg	5.31 U	5.08 U	4.43
Metals	Cadmium	7440-43-9	6020	mg/kg	0.0907 J	0.0863 J	4.97
Metals	Calcium	7440-70-2	6020	mg/kg	5930	3580 J	49.42
Metals	Chromium	7440-47-3	6020	mg/kg	17.6	16	9.52
Metals	Cobalt	7440-48-4	6020	mg/kg	4.21	4.21	--
Metals	Copper	7440-50-8	6020	mg/kg	6.29	5.83	7.59
Metals	Iron	7439-89-6	6020	mg/kg	16200	15200	6.37
Metals	Lead	7439-92-1	6020	mg/kg	3.91	3.91	--
Metals	Lithium	7439-93-2	6020	mg/kg	17.3	15.1	13.58
Metals	Magnesium	7439-95-4	6020	mg/kg	3520	3440	2.30
Metals	Manganese	7439-96-5	6020	mg/kg	132	168	-24.00
Metals	Molybdenum	7439-98-7	6020	mg/kg	0.561	0.38 J	38.47
Metals	Nickel	7440-02-0	6020	mg/kg	10.1	9.92	1.80
Metals	Phosphorus	7723-14-0	6020	mg/kg	261	239	8.80
Metals	Potassium	7440-09-07	6020	mg/kg	1650	1550	6.25
Metals	Selenium	7782-49-2	6020	mg/kg	0.531 U	0.508 U	4.43
Metals	Silver	7440-22-4	6020	mg/kg	0.531 U	0.508 U	4.43
Metals	Sodium	7440-23-5	6020	mg/kg	328	310	5.64
Metals	Strontium	7440-24-6	6020	mg/kg	32.8	27.9	16.14
Metals	Thallium	7440-28-0	6020	mg/kg	0.174 J	0.141 J	20.95
Metals	Tin	7440-31-5	6020	mg/kg	10.6 U	10.2 U	3.85
Metals	Titanium	7440-32-6	6020	mg/kg	656	590	10.59
Metals	Vanadium	7440-62-2	6020	mg/kg	26.5	24.6	7.44
Metals	Zinc	7440-66-6	6020	mg/kg	33.9	33	2.69
Metals	Zirconium	7440-67-7	6020	mg/kg	5.31 U	5.08 U	4.43
Moisture Content	Moisture	MOIST	160.3M	%			
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM	µg/kg	11 U	5.3 U	69.94
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM	µg/kg	21 U	11 U	62.50
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM	µg/kg	21 U	11 U	62.50
PAHs	Acenaphthene	83-32-9	8270C SIM	µg/kg	21 U	11 U	62.50
PAHs	Acenaphthylene	208-96-8	8270C SIM	µg/kg	21 U	11 U	62.50
PAHs	Anthracene	120-12-7	8270C SIM	µg/kg	21 U	11 U	62.50
PAHs	Azobenzene	103-33-3	8270C SIM	µg/kg	11 U	5.3 U	69.94
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM	µg/kg	11 J	3.7 J	99.32
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM	µg/kg	5.8 J	11 UJ	-61.90
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM	µg/kg	6.9 J	11 UJ	-45.81
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM	µg/kg	8.2 J	3 J	92.86
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM	µg/kg	21 U	11 U	62.50
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM	µg/kg	6 J	11 UJ	-58.82
PAHs	Chrysene	218-01-9	8270C SIM	µg/kg	7.3 J	11 UJ	-40.44
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	µg/kg	21 U	11 U	62.50
PAHs	Fluoranthene	206-44-0	8270C SIM	µg/kg	21 U	11 U	62.50
PAHs	Fluorene	86-73-7	8270C SIM	µg/kg	21 U	11 U	62.50
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM	µg/kg	21 U	11 U	62.50
PAHs	Naphthalene	91-20-3	8270C SIM	µg/kg	21 U	11 U	62.50
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM	µg/kg	21 U	11 U	62.50
PAHs	Phenanthrene	85-01-8	8270C SIM	µg/kg	11 J	3.5 J	103.45
PAHs	Pyrene	129-00-0	8270C SIM	µg/kg	21 U	11 U	62.50
PCBsPCTS	Aroclor 1016	12674-11-2	8082	µg/kg	21 U	21 U	--
PCBsPCTS	Aroclor 1221	11104-28-2	8082	µg/kg	21 U	21 U	--
PCBsPCTS	Aroclor 1232	11141-16-5	8082	µg/kg	21 U	21 U	--
PCBsPCTS	Aroclor 1242	53469-21-9	8082	µg/kg	21 U	21 U	--
PCBsPCTS	Aroclor 1248	12672-29-6	8082	µg/kg	21 U	21 U	--
PCBsPCTS	Aroclor 1254	11097-69-1	8082	µg/kg	21 U	21 U	--
PCBsPCTS	Aroclor 1260	11096-82-5	8082	µg/kg	21 U	21 U	--
PCBsPCTS	Aroclor 1262	37324-23-5	8082	µg/kg	21 U	21 U	--
PCBsPCTS	Aroclor 1268	11100-14-4	8082	µg/kg	21 U	21 U	--
PCBsPCTS	Aroclor 5432	63496-31-1	8082	µg/kg	43 U	42 U	2.35
PCBsPCTS	Aroclor 5442	12642-23-8	8082	µg/kg	43 U	42 U	2.35
PCBsPCTS	Aroclor 5460	11126-42-4	8082	µg/kg	43 U	42 U	2.35
Perchlorate	Perchlorate	14797-73-0	6850	µg/kg			
Pesticides	4,4'-DDD	72-54-8	8081A	µg/kg			
Pesticides	4,4'-DDE	72-55-9	8081A	µg/kg			
Pesticides	4,4'-DDT	50-29-3	8081A	µg/kg			
Pesticides	Aldrin	309-00-2	8081A	µg/kg			
Pesticides	Alpha-Bhc	319-84-6	8081A	µg/kg			
Pesticides	Beta-Bhc	319-85-7	8081A	µg/kg			
Pesticides	Chlordane (Technical)	12789-03-6	8081A	µg/kg			
Pesticides	Delta-Bhc	319-86-8	8081A	µg/kg			
Pesticides	Dieldrin	60-57-1	8081A	µg/kg			
Pesticides	Endosulfan I	959-98-8	8081A	µg/kg			
Pesticides	Endosulfan II	33213-65-9	8081A	µg/kg			
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	µg/kg			
Pesticides	Endrin	72-20-8	8081A	µg/kg			
Pesticides	Endrin Aldehyde	7421-93-4	8081A	µg/kg			
Pesticides	Endrin Ketone	53494-70-5	8081A	µg/kg			
Pesticides	Gamma-Bhc (Lindane)	58-89-9	8081A	µg/kg			
Pesticides	Heptachlor	76-44-8	8081A	µg/kg			
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	µg/kg			
Pesticides	Methoxychlor	72-43-5	8081A	µg/kg			
Pesticides	Mirex	2385-85-5	8081A	µg/kg			
Pesticides	Technical Toxaphene	8001-35-2	8081A	µg/kg			
pH	pH	pH	9045D	pH	9.07	9.06	0.11
TPH-EFH	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg	5.4 U	5.3 U	1.87
TPH-EFH	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg	3.1 J	5.3 UJ	-52.38
TPH-EFH	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg	76 J	7.2 J	165.38
TPH-EFH	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg	100 J	11 UJ	160.36
TPH-EFH	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg	5.4 U	5.3 U	1.87
TPH-GRO	Gasoline Range Organics (C5-C12)	GROCS12	8015B GRO	mg/kg			

µg/kg - microgram per kilogram  
mg/kg - milligram per kilogram  
ng/g - nanogram per kilogram  
FD - field duplicate sample  
N - normal sample  
RPD - relative percent difference  
SO - soil  
-- - RPD not calculated when both field duplicate and normal samples were nondetect or 200\* - When one result is nondetect a 200% RPD is given and sample results are qualified  
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 - Subarea 5C Field Duplicate Results

		Location	5C_DG-572	5C_DG-572	Sample Name:	5C_DG-581	5C_DG-581	
		Sample Date:	SL-872-SA5C-SB-5.0	SL-572-SA5C-SB-5.0	SL-881-SA5C-SB-4.0-5.0	SL-581-SA5C-SB-4.0-5.0		
		Start Depth:	5	5	5	4	4	
		End Depth:	5	5	5	5	5	
		Area:	5C_DG	5C_DG	5C_DG	5C_DG	5C_DG	
		Matrix:	SO	SO	SO	SO	SO	
		Sample Type:	FD	N	FD	N	N	RPD
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result	Unit			
Alcohols	2-Propanol	67-63-0	8015B		µg/kg			
Alcohols	Ethanol	64-17-5	8015B		µg/kg			
Alcohols	Methanol	67-56-1	8015B		µg/kg			
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B		ng/kg	18.4 J	37.1 J	-67.39
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B		ng/kg	1.5 J	4.15 J	-93.81
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B		ng/kg	5.54 UJ	0.553 J	163.70
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B		ng/kg	0.268 J	0.401 J	-39.76
Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B		ng/kg	0.28 J	0.324 J	-14.57
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B		ng/kg	0.915 J	1.8 J	-65.19
Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B		ng/kg	0.196 J	0.183 J	6.86
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B		ng/kg	0.608 J	1.05 J	-53.32
Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B		ng/kg	5.54 U	5.32 U	4.05
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B		ng/kg	5.54 U	5.32 U	4.05
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B		ng/kg	5.54 UJ	5.32 UJ	4.05
Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B		ng/kg	5.54 UJ	0.268 J	181.54
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B		ng/kg	5.54 UJ	5.32 UJ	4.05
Dioxins	2,3,7,8-TCDF	1746-01-6	1613B		ng/kg	1.11 U	1.06 U	4.61
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B		ng/kg	0.0572 J	0.0963 J	-50.94
Dioxins	OCDD	3268-87-9	1613B		ng/kg	128 J	286 J	-76.33
Dioxins	OCDF	39001-02-0	1613B		ng/kg	3.93 J	11.2 J	-96.10
Formaldehyde	Formaldehyde	50-00-0	8315A		µg/kg	1700 U	1700 U	--
Glycols	Diethylene Glycol	111-46-6	8015M		mg/kg			
Glycols	Ethylene Glycol	107-21-1	8015M		mg/kg			
Glycols	Propylene Glycol	57-55-6	8015M		mg/kg			
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199		mg/kg			
Mercury	Mercury	7439-97-6	7471A		mg/kg	1.13 U	1.13 U	--
Metals	Aluminum	7429-90-5	6020		mg/kg	15900	17000	-6.69
Metals	Antimony	7440-36-0	6020		mg/kg	0.183 J	0.181 J	1.10
Metals	Arsenic	7440-38-2	6020		mg/kg	3.42	3.74	-8.94
Metals	Barium	7440-39-3	6020		mg/kg	131	136	-3.75
Metals	Beryllium	7440-41-7	6020		mg/kg	0.75	0.761	-1.46
Metals	Boron	7440-42-8	6020		mg/kg	3.57 J	3.74 J	-4.65
Metals	Cadmium	7440-43-9	6020		mg/kg	0.293 J	0.301 J	-2.69
Metals	Calcium	7440-70-2	6020		mg/kg	103000	97400	5.59
Metals	Chromium	7440-47-3	6020		mg/kg	20.2 J	20.3 J	-0.49
Metals	Cobalt	7440-48-4	6020		mg/kg	4.92	5.32	-7.81
Metals	Copper	7440-50-8	6020		mg/kg	6.09	6.19	-1.63
Metals	Iron	7439-89-6	6020		mg/kg	19200	19700	-2.57
Metals	Lead	7439-92-1	6020		mg/kg	5.06	5.56	-9.42
Metals	Lithium	7439-93-2	6020		mg/kg	21.2	23.1	-8.58
Metals	Magnesium	7439-95-4	6020		mg/kg	4230 J	4350 J	-2.80
Metals	Manganese	7439-96-5	6020		mg/kg	204	195	4.51
Metals	Molybdenum	7439-98-7	6020		mg/kg	0.135 J	0.138 J	-2.20
Metals	Nickel	7440-02-0	6020		mg/kg	11.8	11.9	-0.84
Metals	Phosphorus	7723-14-0	6020		mg/kg	80.1	83.3	-3.92
Metals	Potassium	7440-09-07	6020		mg/kg	1150	1270	-9.92
Metals	Selenium	7782-49-2	6020		mg/kg	0.551 U	0.556 U	-0.90
Metals	Silver	7440-22-4	6020		mg/kg	0.0722 J	0.0705 J	2.38
Metals	Sodium	7440-23-5	6020		mg/kg	498	510	-2.38
Metals	Strontium	7440-24-6	6020		mg/kg	147	137	7.04
Metals	Thallium	7440-28-0	6020		mg/kg	0.18 J	0.185 J	-2.74
Metals	Tin	7440-31-5	6020		mg/kg	11 U	11.1 U	-0.90
Metals	Titanium	7440-32-6	6020		mg/kg	639	670	-4.74
Metals	Vanadium	7440-62-2	6020		mg/kg	31.3 J	33.9 J	-7.98
Metals	Zinc	7440-66-6	6020		mg/kg	42	41.4	1.44
Metals	Zirconium	7440-67-7	6020		mg/kg	5.51 U	5.56 U	-0.90
Moisture Content	Moisture	MOIST	160.3M		%	11.2	10.5	6.45
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM		µg/kg	5.6 U	5.6 U	--
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM		µg/kg	11 U	11 U	--
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Acenaphthene	83-32-9	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Acenaphthylene	208-96-8	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Anthracene	120-12-7	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Azobenzene	103-33-3	8270C SIM		µg/kg	5.6 U	5.6 U	--
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM		µg/kg	5.6 U	5.6 U	--
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Chrysene	218-01-9	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Fluoranthene	206-44-0	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Fluorene	86-73-7	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Naphthalene	91-20-3	8270C SIM		µg/kg	11 U	11 U	--
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Phenanthrene	85-01-8	8270C SIM		µg/kg	11 U	11 U	--
PAHs	Pyrene	129-00-0	8270C SIM		µg/kg	11 U	11 U	--
PCBsPCTs	Aroclor 1016	12674-11-2	8082		µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1221	11104-28-2	8082		µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1232	11141-16-5	8082		µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1242	53469-21-9	8082		µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1248	12672-29-6	8082		µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1254	11097-69-1	8082		µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1260	11096-82-5	8082		µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1262	37324-23-5	8082		µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 1268	11100-14-4	8082		µg/kg	23 U	23 U	--
PCBsPCTs	Aroclor 5432	63496-31-1	8082		µg/kg	45 U	45 U	--
PCBsPCTs	Aroclor 5442	12642-23-8	8082		µg/kg	45 U	45 U	--
PCBsPCTs	Aroclor 5460	11126-42-4	8082		µg/kg	45 U	45 U	--
Perchlorate	Perchlorate	14797-73-0	6850		µg/kg	5.65 U	5.65 U	--
Pesticides	4,4'-DDD	72-54-8	8081A		µg/kg			
Pesticides	4,4'-DDE	72-55-9	8081A		µg/kg			
Pesticides	4,4'-DDT	50-29-3	8081A		µg/kg			
Pesticides	Aldrin	309-00-2	8081A		µg/kg			
Pesticides	Alpha-Bhc	319-84-6	8081A		µg/kg			
Pesticides	Beta-Bhc	319-85-7	8081A		µg/kg			
Pesticides	Chlordane (Technical)	12789-03-6	8081A		µg/kg			
Pesticides	Delta-Bhc	319-86-8	8081A		µg/kg			
Pesticides	Dieldrin	60-57-1	8081A		µg/kg			
Pesticides	Endosulfan I	959-98-8	8081A		µg/kg			
Pesticides	Endosulfan II	33213-65-9	8081A		µg/kg			
Pesticides	Endosulfan Sulfate	1031-07-8	8081A		µg/kg			
Pesticides	Endrin	72-20-8	8081A		µg/kg			
Pesticides	Endrin Aldehyde	7421-93-4	8081A		µg/kg			
Pesticides	Endrin Ketone	53494-70-5	8081A		µg/kg			
Pesticides	Gamma-Bhc (Lindane)	58-89-9	8081A		µg/kg			
Pesticides	Heptachlor	76-44-8	8081A		µg/kg			
Pesticides	Heptachlor Epoxide	1024-57-3	8081A		µg/kg			
Pesticides	Methoxychlor	72-43-5	8081A		µg/kg			
Pesticides	Mirex	2385-85-5	8081A		µg/kg			
Pesticides	Technical Toxaphene	8001-35-2	8081A		µg/kg			
pH	pH	pH	9045D			8.06	8.01	0.62
TPH-EFH	EFH (C12-C14)	PHCC12C14	8015B EFH		mg/kg	5.6 U	5.6 U	--
TPH-EFH	EFH (C15-C20)	PHCC15C20	8015B EFH		mg/kg	5.6 U	5.6 U	--
TPH-EFH	EFH (C21-C30)	PHCC21C30	8015B EFH		mg/kg	5.6 U	5.6 U	--
TPH-EFH	EFH (C30-C40)	PHCC30C40	8015B EFH		mg/kg	11 U	11 U	--
TPH-EFH	EFH (C8-C11)	PHCC8C11	8015B EFH		mg/kg	5.6 U	5.6 U	--
TPH-GRO	Gasoline Range Organics (C5-C12)	GROC5C12	8015B GRO		mg/kg	1.1 U	1.1 U	--

µg/kg - microgram per kilogram

mg/kg - milligram per kilogram

ng/g - nanogram per kilogram

FD - field duplicate sample

N - normal sample

RPD - relative percent difference

SO - soil

-- RPD not calculated when both field duplicate and normal samples were nondetect or 200\*

200\* - When one result is nondetect a 200% RPD is given and sample results are qualified

Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 - Subarea 5C Field Duplicate Results

			Location	5C_DG-581	5C_DG-581		5C_DG-587	5C_DG-587	
			Sample Name:	SL-881-SA5C-SB-5.0	SL-881-SA5C-SB-5.0	Sample Name:	SL-887-SA5C-SB-4.0-5.0	SL-887-SA5C-SB-4.0-5.0	RPD
			Sample Date:	06/26/2012	06/26/2012	Sample Date:	06/20/2012	06/20/2012	RPD
			Start Depth:	5	5	Start Depth:	4	4	
			End Depth:	5	5	End Depth:	5	5	
			Area:	5C_DG	5C_DG	Area:	5C_DG	5C_DG	
			Matrix:	SO	SO	Matrix:	SO	SO	
			Sample Type:	FD	N	Sample Type:	FD	N	
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result	Unit				
Alcohols	2-Propanol	67-63-0	8015B	µg/kg					
Alcohols	Ethanol	64-17-5	8015B	µg/kg					
Alcohols	Methanol	67-56-1	8015B	µg/kg					
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B	ng/kg			1.53 J	3.44 J	-76.86
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B	ng/kg			5.71 UJ	0.548 J	164.97
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B	ng/kg			5.71 UJ	5.62 UJ	1.59
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B	ng/kg			0.0435 J	5.62 UJ	-196.93
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	1613B	ng/kg			5.71 UJ	0.201 J	186.40
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B	ng/kg			0.471 J	0.515 J	-8.92
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	1613B	ng/kg			5.71 UJ	5.62 UJ	1.59
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B	ng/kg			0.597 J	0.562 J	6.04
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	1613B	ng/kg			0.578 J	0.414 J	33.06
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B	ng/kg			0.2 J	0.195 J	2.53
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B	ng/kg			0.11 J	0.0919 J	17.93
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	1613B	ng/kg			0.0883 J	0.0977 J	-10.11
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B	ng/kg			5.71 UJ	5.62 UJ	1.59
Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg			1.14 UJ	0.0484 J	183.71
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B	ng/kg			1.14 UJ	1.12 UJ	1.77
Dioxins	OCDD	3268-87-9	1613B	ng/kg			16.6 J	47.8 J	-96.89
Dioxins	OCDF	39001-02-0	1613B	ng/kg			0.909 J	1.62 J	-56.23
Formaldehyde	Formaldehyde	50-00-0	8315A	µg/kg					
Glycols	Diethylene Glycol	111-46-6	8015M	mg/kg					
Glycols	Ethylene Glycol	107-21-1	8015M	mg/kg					
Glycols	Propylene Glycol	57-55-6	8015M	mg/kg					
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199	mg/kg					
Mercury	Mercury	7439-97-6	7471A	mg/kg			0.112 U	0.114 U	-1.77
Metals	Aluminum	7429-90-5	6020	mg/kg			15200	13100	14.84
Metals	Antimony	7440-36-0	6020	mg/kg			0.248 J	0.216 J	13.79
Metals	Arsenic	7440-38-2	6020	mg/kg			5.89	4.1	35.84
Metals	Barium	7440-39-3	6020	mg/kg			131 J	93.1 J	33.82
Metals	Beryllium	7440-41-7	6020	mg/kg			0.672	0.608	10.00
Metals	Boron	7440-42-8	6020	mg/kg			2.9 J	5.66 UJ	-64.49
Metals	Cadmium	7440-43-9	6020	mg/kg			0.266 J	0.224 J	17.14
Metals	Calcium	7440-70-2	6020	mg/kg			3310	2860	14.59
Metals	Chromium	7440-47-3	6020	mg/kg			21.7	19.6	10.17
Metals	Cobalt	7440-48-4	6020	mg/kg			7.84	6.15	24.16
Metals	Copper	7440-50-8	6020	mg/kg			10.5	10.1	3.88
Metals	Iron	7439-89-6	6020	mg/kg			23400	19000	20.75
Metals	Lead	7439-92-1	6020	mg/kg			7.2	7.11	1.26
Metals	Lithium	7439-93-2	6020	mg/kg			20	17.2	15.05
Metals	Magnesium	7439-95-4	6020	mg/kg			5030	4350	14.50
Metals	Manganese	7439-96-5	6020	mg/kg			603 J	242 J	85.44
Metals	Molybdenum	7439-98-7	6020	mg/kg			0.919 J	0.517 J	55.99
Metals	Nickel	7440-02-0	6020	mg/kg			15.4	12.9	17.67
Metals	Phosphorus	7723-14-0	6020	mg/kg			312	230	30.26
Metals	Potassium	7440-09-07	6020	mg/kg			3200	2890	10.18
Metals	Selenium	7782-49-2	6020	mg/kg			0.549 U	0.566 U	-3.05
Metals	Silver	7440-22-4	6020	mg/kg			0.549 U	0.566 U	-3.05
Metals	Sodium	7440-23-5	6020	mg/kg			131	97.1 J	29.72
Metals	Strontium	7440-24-6	6020	mg/kg			25.4	22.4	12.55
Metals	Thallium	7440-28-0	6020	mg/kg			0.271 J	0.261 J	3.76
Metals	Tin	7440-31-5	6020	mg/kg			11 U	11.3 U	-2.69
Metals	Titanium	7440-32-6	6020	mg/kg			824	745	10.07
Metals	Vanadium	7440-62-2	6020	mg/kg			40.4	34.4	16.04
Metals	Zinc	7440-66-6	6020	mg/kg			62.3	50	21.91
Metals	Zirconium	7440-67-7	6020	mg/kg			5.49 UJ	5.66 UJ	-3.05
Moisture Content	Moisture	MOIST	160.3M	%			12.9	12.1	6.40
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM	µg/kg			5.7 U	5.7 U	--
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM	µg/kg			11 U	11 U	--
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Acenaphthene	83-32-9	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Acenaphthylene	208-96-8	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Anthracene	120-12-7	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Azobenzene	103-33-3	8270C SIM	µg/kg			5.7 U	5.7 U	--
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM	µg/kg			5.7 UJ	5.7 UJ	--
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Chrysene	218-01-9	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Fluoranthene	206-44-0	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Fluorene	86-73-7	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Naphthalene	91-20-3	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Phenanthrene	85-01-8	8270C SIM	µg/kg			11 UJ	11 U	--
PAHs	Pyrene	129-00-0	8270C SIM	µg/kg			11 UJ	11 U	--
PCBsPCTS	Aroclor 1016	12674-11-2	8082	µg/kg			23 U	23 U	--
PCBsPCTS	Aroclor 1221	11104-28-2	8082	µg/kg			23 U	23 U	--
PCBsPCTS	Aroclor 1232	11141-16-5	8082	µg/kg			23 U	23 U	--
PCBsPCTS	Aroclor 1242	53469-21-9	8082	µg/kg			23 U	23 U	--
PCBsPCTS	Aroclor 1248	12672-29-6	8082	µg/kg			23 U	23 U	--
PCBsPCTS	Aroclor 1254	11097-69-1	8082	µg/kg			23 U	23 U	--
PCBsPCTS	Aroclor 1260	11096-82-5	8082	µg/kg			23 U	23 U	--
PCBsPCTS	Aroclor 1262	37324-23-5	8082	µg/kg			23 U	23 U	--
PCBsPCTS	Aroclor 1268	11100-14-4	8082	µg/kg			23 U	23 U	--
PCBsPCTS	Aroclor 5432	63496-31-1	8082	µg/kg			46 U	46 U	--
PCBsPCTS	Aroclor 5442	12642-23-8	8082	µg/kg			46 U	46 U	--
PCBsPCTS	Aroclor 5460	11126-42-4	8082	µg/kg			46 U	46 U	--
Perchlorate	Perchlorate	14797-73-0	6850	µg/kg					
Pesticides	4,4'-DDD	72-54-8	8081A	µg/kg					
Pesticides	4,4'-DDE	72-55-9	8081A	µg/kg					
Pesticides	4,4'-DDT	50-29-3	8081A	µg/kg					
Pesticides	Aldrin	309-00-2	8081A	µg/kg					
Pesticides	Alpha-Bhc	319-84-6	8081A	µg/kg					
Pesticides	Beta-Bhc	319-85-7	8081A	µg/kg					
Pesticides	Chlordane (Technical)	12789-03-6	8081A	µg/kg					
Pesticides	Delta-Bhc	319-86-8	8081A	µg/kg					
Pesticides	Dieldrin	60-57-1	8081A	µg/kg					
Pesticides	Endosulfan I	959-98-8	8081A	µg/kg					
Pesticides	Endosulfan II	33213-65-9	8081A	µg/kg					
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	µg/kg					
Pesticides	Endrin	72-20-8	8081A	µg/kg					
Pesticides	Endrin Aldehyde	7421-93-4	8081A	µg/kg					
Pesticides	Endrin Ketone	53494-70-5	8081A	µg/kg					
Pesticides	Gamma-Bhc (Lindane)	58-89-9	8081A	µg/kg					
Pesticides	Heptachlor	76-44-8	8081A	µg/kg					
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	µg/kg					
Pesticides	Methoxychlor	72-43-5	8081A	µg/kg					
Pesticides	Mirex	2385-85-5	8081A	µg/kg					
Pesticides	Technical Toxaphene	8001-35-2	8081A	µg/kg					
pH	pH	pH	9045D	pH			8	7.95	0.63
TPH-EFH	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg			5.7 U	5.7 U	--
TPH-EFH	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg			5.7 U	5.7 U	--
TPH-EFH	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg			5.7 UJ	3 J	62.07
TPH-EFH	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg			11 U	11 U	--
TPH-EFH	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg			5.7 U	5.7 U	--
TPH-GRO	Gasoline Range Organics (C5-C12)	GROC5C12	8015B GRO	mg/kg			1.2 U	1.1 U	8.70

µg/kg - microgram per kilogram

mg/kg - milligram per kilogram

ng/g - nanogram per kilogram

FD - field duplicate sample

N - normal sample

RPD - relative percent difference

SO - soil

-- RPD not calculated when both field duplicate and normal samples were nondetect or 200\* - When one result is nondetect a 200% RPD is given and sample results are qualified  
 Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 - Subarea 5C Field Duplicate Results

Location	5C_DG-587	5C_DG-587	5C_DG-603	5C_DG-603	RPD		
Sample Name:	SL-887-SA5C-SB-5.0	SL-587-SA5C-SB-5.0	SL-903-SA5C-SB-0.0-0.5	SL-603-SA5C-SB-0.0-0.5			
Sample Date:	06/20/2012	06/20/2012	05/03/2012	05/03/2012			
Start Depth:	5	5	0	0			
End Depth:	5	5	0.5	0.5			
Area:	5C_DG	5C_DG	5C_DG	5C_DG			
Matrix:	SO	SO	SO	SO			
Sample Type:	FD	N	FD	N			
MAG:							
Chemical Name:	CAS No.:	Lab Method:	Result Unit				
Alcohols	2-Propanol	67-63-0	8015B	µg/kg			
Alcohols	Ethanol	64-17-5	8015B	µg/kg			
Alcohols	Methanol	67-56-1	8015B	µg/kg			
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B	ng/kg	51.6	65.5	-23.74
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B	ng/kg	6.45	6.04	6.57
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B	ng/kg	0.918 J	0.691 J	28.22
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B	ng/kg	0.539 J	0.932 J	-53.43
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	1613B	ng/kg	0.93 J	0.941 J	-1.18
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B	ng/kg	2.15 J	2.34 J	-8.46
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	1613B	ng/kg	0.692 J	0.555 J	21.97
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B	ng/kg	1.43 J	1.33 J	7.25
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	1613B	ng/kg	0.77 J	0.681 J	12.27
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B	ng/kg	1.39 J	1.2 J	14.67
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B	ng/kg	0.325 J	0.353 J	-8.26
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	1613B	ng/kg	0.722 J	0.687 J	4.97
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B	ng/kg	0.592 J	0.841 J	-34.75
Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.08 U	1.07 U	0.93
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B	ng/kg	0.247 J	0.251 J	-1.61
Dioxins	OCDD	3268-87-9	1613B	ng/kg	532	590 J	-10.34
Dioxins	OCDF	39001-02-0	1613B	ng/kg	11.1	11.5	-3.54
Formaldehyde	Formaldehyde	50-00-0	8315A	µg/kg			
Glycols	Diethylene Glycol	111-46-6	8015M	mg/kg			
Glycols	Ethylene Glycol	107-21-1	8015M	mg/kg			
Glycols	Propylene Glycol	57-55-6	8015M	mg/kg			
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199	mg/kg			
Mercury	Mercury	7439-97-6	7471A	mg/kg	0.314	0.31	1.28
Metals	Aluminum	7429-90-5	6020	mg/kg	10100 J	8390 J	18.50
Metals	Antimony	7440-36-0	6020	mg/kg	0.242 J	0.266 J	-9.45
Metals	Arsenic	7440-38-2	6020	mg/kg	3.08 J	4.59 J	-39.37
Metals	Barium	7440-39-3	6020	mg/kg	91.1 J	80.6 J	12.23
Metals	Beryllium	7440-41-7	6020	mg/kg	0.426 J	0.475 J	-10.88
Metals	Boron	7440-42-8	6020	mg/kg	5.23 U	5.35 U	-2.27
Metals	Cadmium	7440-43-9	6020	mg/kg	0.283 J	0.288 J	-1.75
Metals	Calcium	7440-70-2	6020	mg/kg	2790 J	2370 J	16.28
Metals	Chromium	7440-47-3	6020	mg/kg	15.4 J	13.9 J	10.24
Metals	Cobalt	7440-48-4	6020	mg/kg	5.06 J	4.39 J	14.18
Metals	Copper	7440-50-8	6020	mg/kg	8.88 J	7.39 J	18.32
Metals	Iron	7439-89-6	6020	mg/kg	16600	18200	-9.20
Metals	Lead	7439-92-1	6020	mg/kg	12.6	10.6	17.24
Metals	Lithium	7439-93-2	6020	mg/kg	16.4	13.7	17.94
Metals	Magnesium	7439-95-4	6020	mg/kg	3360 J	2840 J	16.77
Metals	Manganese	7439-96-5	6020	mg/kg	259	234	10.14
Metals	Molybdenum	7439-98-7	6020	mg/kg	0.442 J	1.4 J	-104.02
Metals	Nickel	7440-02-0	6020	mg/kg	9.21 J	8.5 J	8.02
Metals	Phosphorus	7723-14-0	6020	mg/kg	277 J	273 J	1.45
Metals	Potassium	7440-09-07	6020	mg/kg	3110	2700	14.11
Metals	Selenium	7782-49-2	6020	mg/kg	0.523 UJ	0.535 UJ	-2.27
Metals	Silver	7440-22-4	6020	mg/kg	0.523 U	0.535 U	-2.27
Metals	Sodium	7440-23-5	6020	mg/kg	74.8 J	63.5 J	16.34
Metals	Strontium	7440-24-6	6020	mg/kg	19 J	16.9 J	11.70
Metals	Thallium	7440-28-0	6020	mg/kg	0.23 J	0.26 J	-12.24
Metals	Tin	7440-31-5	6020	mg/kg	10.5 U	10.7 U	-1.89
Metals	Titanium	7440-32-6	6020	mg/kg	728	628	14.34
Metals	Vanadium	7440-62-2	6020	mg/kg	27.7 J	26.5 J	4.43
Metals	Zinc	7440-66-6	6020	mg/kg	55.4	45.4	20.02
Metals	Zirconium	7440-67-7	6020	mg/kg	5.23 UJ	5.35 UJ	-2.27
Moisture Content	Moisture	MOIST	160.3M	%	8.6	7.2	17.72
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM	µg/kg	5.4 U	5.4 U	--
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM	µg/kg	11 U	11 U	--
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM	µg/kg	11 U	11 U	--
PAHs	Acenaphthene	83-32-9	8270C SIM	µg/kg	11 U	11 U	--
PAHs	Acenaphthylene	208-96-8	8270C SIM	µg/kg	11 U	11 U	--
PAHs	Anthracene	120-12-7	8270C SIM	µg/kg	11 U	11 U	--
PAHs	Azobenzene	103-33-3	8270C SIM	µg/kg	5.4 U	5.4 U	--
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM	µg/kg	5.5 J	4.2 J	26.80
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM	µg/kg	6.5 J	5.3 J	20.34
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM	µg/kg	8.4 J	7.7 J	8.70
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM	µg/kg	5.4	4.3 J	22.68
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM	µg/kg	6.1 J	4.3 J	34.62
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM	µg/kg	3.1 J	11 UJ	-112.06
PAHs	Chrysene	218-01-9	8270C SIM	µg/kg	5.6 J	4.7 J	17.48
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	µg/kg	11 U	11 U	--
PAHs	Fluoranthene	206-44-0	8270C SIM	µg/kg	11	11	--
PAHs	Fluorene	86-73-7	8270C SIM	µg/kg	11 U	11 U	--
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM	µg/kg	4 J	2.9 J	31.88
PAHs	Naphthalene	91-20-3	8270C SIM	µg/kg	11 U	11 U	--
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM	µg/kg	11 U	11 U	--
PAHs	Phenanthrene	85-01-8	8270C SIM	µg/kg	4.9 J	4.8 J	2.06
PAHs	Pyrene	129-00-0	8270C SIM	µg/kg	11	10 J	9.52
PCBsPCTS	Aroclor 1016	12674-11-2	8082	µg/kg	21 U	22 U	-4.65
PCBsPCTS	Aroclor 1221	11104-28-2	8082	µg/kg	21 U	22 U	-4.65
PCBsPCTS	Aroclor 1232	11141-16-5	8082	µg/kg	21 U	22 U	-4.65
PCBsPCTS	Aroclor 1242	53469-21-9	8082	µg/kg	21 U	22 U	-4.65
PCBsPCTS	Aroclor 1248	12672-29-6	8082	µg/kg	21 U	22 U	-4.65
PCBsPCTS	Aroclor 1254	11097-69-1	8082	µg/kg	21 U	22 U	-4.65
PCBsPCTS	Aroclor 1260	11096-82-5	8082	µg/kg	21 U	22 U	-4.65
PCBsPCTS	Aroclor 1262	37324-23-5	8082	µg/kg	21 U	22 U	-4.65
PCBsPCTS	Aroclor 1268	11100-14-4	8082	µg/kg	21 U	22 U	-4.65
PCBsPCTS	Aroclor 5432	63496-31-1	8082	µg/kg	43 U	43 U	--
PCBsPCTS	Aroclor 5442	12642-23-8	8082	µg/kg	43 U	43 U	--
PCBsPCTS	Aroclor 5460	11126-42-4	8082	µg/kg	43 U	43 U	--
Perchlorate	Perchlorate	14797-73-0	6850	µg/kg	5.36 U	5.43 U	-1.30
Pesticides	4,4'-DDD	72-54-8	8081A	µg/kg			
Pesticides	4,4'-DDE	72-55-9	8081A	µg/kg			
Pesticides	4,4'-DDT	50-29-3	8081A	µg/kg			
Pesticides	Aldrin	309-00-2	8081A	µg/kg			
Pesticides	Alpha-Bhc	319-84-6	8081A	µg/kg			
Pesticides	Beta-Bhc	319-85-7	8081A	µg/kg			
Pesticides	Chlordane (Technical)	12789-03-6	8081A	µg/kg			
Pesticides	Delta-Bhc	319-86-8	8081A	µg/kg			
Pesticides	Dieldrin	60-57-1	8081A	µg/kg			
Pesticides	Endosulfan I	959-98-8	8081A	µg/kg			
Pesticides	Endosulfan II	33213-65-9	8081A	µg/kg			
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	µg/kg			
Pesticides	Endrin	72-20-8	8081A	µg/kg			
Pesticides	Endrin Aldehyde	7421-93-4	8081A	µg/kg			
Pesticides	Endrin Ketone	53494-70-5	8081A	µg/kg			
Pesticides	Gamma-Bhc (Lindane)	58-89-9	8081A	µg/kg			
Pesticides	Heptachlor	76-44-8	8081A	µg/kg			
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	µg/kg			
Pesticides	Methoxychlor	72-43-5	8081A	µg/kg			
Pesticides	Mirex	2385-85-5	8081A	µg/kg			
Pesticides	Technical Toxaphene	8001-35-2	8081A	µg/kg			
pH	pH	pH	9045D	pH	7.48	7.47	0.13
TPH-EFH	EFH (C12-C14)	PHCC12C14	8015B EFH	mg/kg	5.4 U	5.4 U	--
TPH-EFH	EFH (C15-C20)	PHCC15C20	8015B EFH	mg/kg	5.4 U	5.4 U	--
TPH-EFH	EFH (C21-C30)	PHCC21C30	8015B EFH	mg/kg	9.6	14	-37.29
TPH-EFH	EFH (C30-C40)	PHCC30C40	8015B EFH	mg/kg	31 J	18 J	53.06
TPH-EFH	EFH (C8-C11)	PHCC8C11	8015B EFH	mg/kg	5.4 U	5.4 U	--
TPH-GRO	Gasoline Range Organics (C5-C12)	GROC5C12	8015B GRO	mg/kg	0.93 U	1 U	-7.25

µg/kg - microgram per kilogram

mg/kg - milligram per kilogram

ng/g - nanogram per kilogram

FD - field duplicate sample

N - normal sample

RPD - relative percent difference

SO - soil

-- RPD not calculated when both field duplicate and normal samples were nondetect or

200\* - When one result is nondetect a 200% RPD is given and sample results are qualified

Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 - Subarea 5C Field Duplicate Results

		Location		5C_DG-612	5C_DG-612	5C_DG-612	5C_DG-612	RPD
		Sample Name:	SL-912-SA5C-SB-4.0-5.0	SL-612-SA5C-SB-4.0-5.0	SL-912-SA5C-SB-5.0	SL-612-SA5C-SB-5.0		RPD
		Sample Date:	05/31/2012	05/31/2012	05/31/2012	05/31/2012		
		Start Depth:	4	4	5	5		
		End Depth:	5	5	5	5		
		Area:	5C_DG	5C_DG	5C_DG	5C_DG		
		Matrix:	SO	SO	SO	SO		
		Sample Type:	FD	N	FD	N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result	Unit			
Alcohols	2-Propanol	67-63-0	8015B		μg/kg			
Alcohols	Ethanol	64-17-5	8015B		μg/kg			
Alcohols	Methanol	67-56-1	8015B		μg/kg			
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B	51.2	J	11.9	124.56	
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B	4.87	J	1.31	115.21	
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B	0.397	J	5.72	-174.04	
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B	0.532	J	5.72	-165.96	
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	1613B	0.546	J	5.72	-165.15	
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B	2.2	J	0.573	117.35	
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	1613B	0.391	J	5.72	-174.41	
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B	1.08	J	0.395	92.88	
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	1613B	5.28	U	5.72	-8.00	
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B	0.312	J	5.72	-179.31	
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B	0.322	J	5.72	-178.68	
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	1613B	0.555	J	5.72	-164.62	
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B	5.28	UJ	5.72	-8.00	
Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	0.08	J	1.14	-173.77	
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B	0.215	J	1.14	-136.53	
Dioxins	OCDD	3268-87-9	1613B	5.92	J	1.47	120.43	
Dioxins	OCDF	39001-02-0	1613B	10.4	J	2.95	111.61	
Formaldehyde	Formaldehyde	50-00-0	8315A		μg/kg			
Glycols	Diethylene Glycol	111-46-6	8015M		mg/kg			
Glycols	Ethylene Glycol	107-21-1	8015M		mg/kg			
Glycols	Propylene Glycol	57-55-6	8015M		mg/kg			
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199		mg/kg			
Mercury	Mercury	7439-97-6	7471A	0.106	U	0.108	-1.87	
Metals	Aluminum	7429-90-5	6020	12900		11700	9.76	
Metals	Antimony	7440-36-0	6020	0.21	J	0.331	-44.73	
Metals	Arsenic	7440-38-2	6020	6.91		6.2	10.83	
Metals	Barium	7440-39-3	6020	117		113	3.48	
Metals	Beryllium	7440-41-7	6020	0.868		0.822	5.44	
Metals	Boron	7440-42-8	6020	5.27	U	5.06	4.07	
Metals	Cadmium	7440-43-9	6020	0.136	J	0.227	-50.14	
Metals	Calcium	7440-70-2	6020	5540		6370	-13.94	
Metals	Chromium	7440-47-3	6020	21.6		20.4	5.71	
Metals	Cobalt	7440-48-4	6020	6.58		8.11	-20.83	
Metals	Copper	7440-50-8	6020	13.5		12.1	10.94	
Metals	Iron	7439-89-6	6020	25200		23300	7.84	
Metals	Lead	7439-92-1	6020	8.06		13.1	-47.64	
Metals	Lithium	7439-93-2	6020	26.7		24	10.65	
Metals	Magnesium	7439-95-4	6020	5140	J	4750	7.89	
Metals	Manganese	7439-96-5	6020	174		220	-23.35	
Metals	Molybdenum	7439-98-7	6020	0.276	J	0.453	-48.56	
Metals	Nickel	7440-02-0	6020	14.1		13.6	3.61	
Metals	Phosphorus	7723-14-0	6020	329		355	-7.60	
Metals	Potassium	7440-09-07	6020	1470		2100	-35.29	
Metals	Selenium	7782-49-2	6020	0.527	U	0.506	4.07	
Metals	Silver	7440-22-4	6020	0.527	U	0.506	4.07	
Metals	Sodium	7440-23-5	6020	428		314	30.73	
Metals	Strontium	7440-24-6	6020	37.4		33.6	10.70	
Metals	Thallium	7440-28-0	6020	0.246	J	0.269	-8.93	
Metals	Tin	7440-31-5	6020	10.5	U	10.1	3.88	
Metals	Titanium	7440-32-6	6020	680		783	-14.08	
Metals	Vanadium	7440-62-2	6020	37.9		37.2	1.86	
Metals	Zinc	7440-66-6	6020	61.9		74.5	-18.48	
Metals	Zirconium	7440-67-7	6020	5.27	UJ	5.06	4.07	
Moisture Content	Moisture	MOIST	160.3M	7.9		13.1	-49.52	
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM	5.3	U	5.4	-1.87	
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM	11	U	11	--	
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM	11	U	11	--	
PAHs	Acenaphthene	83-32-9	8270C SIM	11	U	11	--	
PAHs	Acenaphthylene	208-96-8	8270C SIM	11	U	11	--	
PAHs	Anthracene	120-12-7	8270C SIM	11	U	11	--	
PAHs	Azobenzene	103-33-3	8270C SIM	5.3	U	5.4	-1.87	
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM	11	UJ	8.3	27.98	
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM	11	UJ	9.2	17.82	
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM	11	UJ	11	--	
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM	5.3	UJ	5.8	-9.01	
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM	11	UJ	5.5	66.67	
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM	11	UJ	4.2	89.47	
PAHs	Chrysene	218-01-9	8270C SIM	11	UJ	10	9.52	
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	11	U	11	--	
PAHs	Fluoranthene	206-44-0	8270C SIM	11	UJ	21	-62.50	
PAHs	Fluorene	86-73-7	8270C SIM	11	U	11	--	
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM	11	UJ	4.5	83.87	
PAHs	Naphthalene	91-20-3	8270C SIM	11	U	11	--	
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM	11	U	11	--	
PAHs	Phenanthrene	85-01-8	8270C SIM	11	UJ	15	-30.77	
PAHs	Pyrene	129-00-0	8270C SIM	11	UJ	20	-58.06	
PCBsPCTs	Aroclor 1016	12674-11-2	8082	21	U	22	-4.65	
PCBsPCTs	Aroclor 1221	11104-28-2	8082	21	U	22	-4.65	
PCBsPCTs	Aroclor 1232	11141-16-5	8082	21	U	22	-4.65	
PCBsPCTs	Aroclor 1242	53469-21-9	8082	21	U	22	-4.65	
PCBsPCTs	Aroclor 1248	12672-29-6	8082	21	U	22	-4.65	
PCBsPCTs	Aroclor 1254	11097-69-1	8082	21	U	22	-4.65	
PCBsPCTs	Aroclor 1260	11096-82-5	8082	21	U	22	-4.65	
PCBsPCTs	Aroclor 1262	37324-23-5	8082	21	U	22	-4.65	
PCBsPCTs	Aroclor 1268	11100-14-4	8082	21	U	22	-4.65	
PCBsPCTs	Aroclor 5432	63496-31-1	8082	43	U	43	--	
PCBsPCTs	Aroclor 5442	12642-23-8	8082	43	U	43	--	
PCBsPCTs	Aroclor 5460	11126-42-4	8082	43	U	43	--	
Perchlorate	Perchlorate	14797-73-0	6850	5.35	U	5.39	-0.74	
Pesticides	4,4'-DDD	72-54-8	8081A		μg/kg			
Pesticides	4,4'-DDE	72-55-9	8081A		μg/kg			
Pesticides	4,4'-DDT	50-29-3	8081A		μg/kg			
Pesticides	Aldrin	309-00-2	8081A		μg/kg			
Pesticides	Alpha-Bhc	319-84-6	8081A		μg/kg			
Pesticides	Beta-Bhc	319-85-7	8081A		μg/kg			
Pesticides	Chlordane (Technical)	12789-03-6	8081A		μg/kg			
Pesticides	Delta-Bhc	319-86-8	8081A		μg/kg			
Pesticides	Dieldrin	60-57-1	8081A		μg/kg			
Pesticides	Endosulfan I	959-98-8	8081A		μg/kg			
Pesticides	Endosulfan II	33213-65-9	8081A		μg/kg			
Pesticides	Endosulfan Sulfate	1031-07-8	8081A		μg/kg			
Pesticides	Endrin	72-20-8	8081A		μg/kg			
Pesticides	Endrin Aldehyde	7421-93-4	8081A		μg/kg			
Pesticides	Endrin Ketone	53494-70-5	8081A		μg/kg			
Pesticides	Gamma-Bhc (Lindane)	58-89-9	8081A		μg/kg			
Pesticides	Heptachlor	76-44-8	8081A		μg/kg			
Pesticides	Heptachlor Epoxide	1024-57-3	8081A		μg/kg			
Pesticides	Methoxychlor	72-43-5	8081A		μg/kg			
Pesticides	Mirex	2385-85-5	8081A		μg/kg			
Pesticides	Technical Toxaphene	8001-35-2	8081A		μg/kg			
pH	pH	pH	9045D	8.92		8.8	1.35	
TPH-EFH	EFH (C12-C14)	PHCC12C14	8015B EFH	5.3	U	5.4	-1.87	
TPH-EFH	EFH (C15-C20)	PHCC15C20	8015B EFH	5.3	U	5.4	-1.87	
TPH-EFH	EFH (C21-C30)	PHCC21C30	8015B EFH	5.3	U	5.4	-1.87	
TPH-EFH	EFH (C30-C40)	PHCC30C40	8015B EFH	11	U	11	--	
TPH-EFH	EFH (C8-C11)	PHCC8C11	8015B EFH	5.3	U	5.4	-1.87	
TPH-GRO	Gasoline Range Organics (C5-C12)	GROCC5C12	8015B GRO		mg/kg			

μg/kg - microgram per kilogram

mg/kg - milligram per kilogram

ng/g - nanogram per kilogram

FD - field duplicate sample

N - normal sample

RPD - relative percent difference

SO - soil

- - - RPD not calculated when both field duplicate and normal samples were nondetect or

200\* - When one result is nondetect a 200% RPD is given and sample results are qualified

Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 - Subarea 5C Field Duplicate Results

Location				5C_DG-676	5C_DG-676	5C_DG-676	5C_DG-676	RPD
Sample Name:				SL-976-SA5C-SB-4.0-5.0	SL-676-SA5C-SB-4.0-5.0	SL-976-SA5C-SB-5.0	SL-676-SA5C-SB-5.0	
Sample Date:				05/23/2012	05/23/2012	05/23/2012	05/23/2012	
Start Depth:				4	4	5	5	
End Depth:				5	5	5C_DG	5C_DG	
Area:				5C_DG	5C_DG	5C_DG	5C_DG	
Matrix:				SO	SO	SO	SO	
Sample Type:				FD	N	FD	N	
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result	Unit			
Alcohols	2-Propanol	67-63-0	8015B		µg/kg			
Alcohols	Ethanol	64-17-5	8015B		µg/kg			
Alcohols	Methanol	67-56-1	8015B		µg/kg			
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B	3.51	J	4.74	J	-29.82
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B	0.558	J	0.662	J	-17.05
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B	5.52	UJ	5.57	UJ	-0.90
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B	0.157	J	5.57	UJ	-189.03
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	1613B	0.165	J	5.57	UJ	-188.49
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B	0.274	J	0.24	J	13.23
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	1613B	0.162	J	5.57	UJ	-188.70
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B	0.211	J	5.57	UJ	-185.40
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	1613B	5.52	UJ	5.57	UJ	-0.90
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B	0.335	J	5.57	UJ	-177.31
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B	0.281	J	0.0942	J	99.57
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	1613B	5.52	J	5.57	UJ	-0.90
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B	5.52	UJ	5.57	UJ	-0.90
Dioxins	2,3,7,8-TCDF	1746-01-6	1613B	0.114	J	1.11	UJ	-162.75
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B	0.102	J	1.11	UJ	-166.34
Dioxins	OCDD	3268-87-9	1613B	33.3		50.3		-40.67
Dioxins	OCDF	39001-02-0	1613B	1.17	J	1.41	J	-18.60
Formaldehyde	Formaldehyde	50-00-0	8315A		µg/kg			
Glycols	Diethylene Glycol	111-46-6	8015M		mg/kg			
Glycols	Ethylene Glycol	107-21-1	8015M		mg/kg			
Glycols	Propylene Glycol	57-55-6	8015M		mg/kg			
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199		mg/kg			
Mercury	Mercury	7439-97-6	7471A	0.112	U	0.113	U	-0.89
Metals	Aluminum	7429-90-5	6020	14300		13900		2.84
Metals	Antimony	7440-36-0	6020	0.214	J	0.31	J	-36.64
Metals	Arsenic	7440-38-2	6020	4.34		6.06		-33.08
Metals	Barium	7440-39-3	6020	85.9		95.6		-10.69
Metals	Beryllium	7440-41-7	6020	0.657		0.705		-7.05
Metals	Boron	7440-42-8	6020	5.52	U	5.63	U	-1.97
Metals	Cadmium	7440-43-9	6020	0.152	J	0.175	J	-14.07
Metals	Calcium	7440-70-2	6020	1980		2460		-21.62
Metals	Chromium	7440-47-3	6020	17.3		16.2		6.57
Metals	Cobalt	7440-48-4	6020	3.09		3.57		-14.41
Metals	Copper	7440-50-8	6020	5.62		6.21		-9.97
Metals	Iron	7439-89-6	6020	19800		20200		-2.00
Metals	Lead	7439-92-1	6020	5.4		5.8		-7.14
Metals	Lithium	7439-93-2	6020	28.2		29.5		-4.51
Metals	Magnesium	7439-95-4	6020	4570		4590		-0.44
Metals	Manganese	7439-96-5	6020	102		130		-24.14
Metals	Molybdenum	7439-98-7	6020	0.338	J	0.469	J	-32.47
Metals	Nickel	7440-02-0	6020	7.26		7.78		-6.91
Metals	Phosphorus	7723-14-0	6020	101		258		-87.47
Metals	Potassium	7440-09-07	6020	1580		1850		-15.74
Metals	Selenium	7782-49-2	6020	0.552	U	0.563	U	-1.97
Metals	Silver	7440-22-4	6020	0.552	U	0.563	U	-1.97
Metals	Sodium	7440-23-5	6020	793		729		8.41
Metals	Strontium	7440-24-6	6020	22.6		25		-10.08
Metals	Thallium	7440-28-0	6020	0.23	J	0.238	J	-3.42
Metals	Tin	7440-31-5	6020	11	U	11.3	U	-2.69
Metals	Titanium	7440-32-6	6020	962		906		6.00
Metals	Vanadium	7440-62-2	6020	33.7		35.9		-6.32
Metals	Zinc	7440-66-6	6020	37		38.8		-4.75
Metals	Zirconium	7440-67-7	6020	5.52	U	5.63	U	-1.97
Moisture Content	Moisture	MOIST	160.3M		%	11.4		3.57
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM	5.6	U	5.7	U	-1.77
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM	11	U	11	U	--
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM	11	U	11	U	--
PAHs	Acenaphthene	83-32-9	8270C SIM	11	U	11	U	--
PAHs	Acenaphthylene	208-96-8	8270C SIM	11	U	11	U	--
PAHs	Anthracene	120-12-7	8270C SIM	11	U	11	U	--
PAHs	Azobenzene	103-33-3	8270C SIM	5.6	U	5.7	U	-1.77
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM	11	U	11	U	--
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM	11	U	11	U	--
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM	11	U	11	U	--
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM	5.6	U	2.8	J	66.67
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM	11	U	11	U	--
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM	11	U	11	U	--
PAHs	Chrysene	218-01-9	8270C SIM	11	U	11	U	--
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	11	U	11	U	--
PAHs	Fluoranthene	206-44-0	8270C SIM	11	U	11	U	--
PAHs	Fluorene	86-73-7	8270C SIM	11	U	11	U	--
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM	11	U	11	U	--
PAHs	Naphthalene	91-20-3	8270C SIM	11	U	11	U	--
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM	11	U	11	U	--
PAHs	Phenanthrene	85-01-8	8270C SIM	11	U	11	U	--
PAHs	Pyrene	129-00-0	8270C SIM	11	U	11	U	--
PCBsPCTS	Aroclor 1016	12674-11-2	8082	22	U	23	U	-4.44
PCBsPCTS	Aroclor 1221	11104-28-2	8082	22	U	23	U	-4.44
PCBsPCTS	Aroclor 1232	11141-16-5	8082	22	U	23	U	-4.44
PCBsPCTS	Aroclor 1242	53469-21-9	8082	22	U	23	U	-4.44
PCBsPCTS	Aroclor 1248	12672-29-6	8082	22	U	23	U	-4.44
PCBsPCTS	Aroclor 1254	11097-69-1	8082	22	U	23	U	-4.44
PCBsPCTS	Aroclor 1260	11096-82-5	8082	22	U	23	U	-4.44
PCBsPCTS	Aroclor 1262	37324-23-5	8082	22	U	23	U	-4.44
PCBsPCTS	Aroclor 1268	11100-14-4	8082	22	U	23	U	-4.44
PCBsPCTS	Aroclor 5432	63496-31-1	8082	45	U	46	U	-2.20
PCBsPCTS	Aroclor 5442	12642-23-8	8082	45	U	46	U	-2.20
PCBsPCTS	Aroclor 5460	11126-42-4	8082	45	U	46	U	-2.20
Perchlorate	Perchlorate	14797-73-0	6850		µg/kg			
Pesticides	4,4'-DDD	72-54-8	8081A	2.2	U	2.3	U	-4.44
Pesticides	4,4'-DDE	72-55-9	8081A	2.2	U	2.3	U	-4.44
Pesticides	4,4'-DDT	50-29-3	8081A	2.2	U	2.3	U	-4.44
Pesticides	Aldrin	309-00-2	8081A	2.2	U	2.3	U	-4.44
Pesticides	Alpha-Bhc	319-84-6	8081A	2.2	U	2.3	U	-4.44
Pesticides	Beta-Bhc	319-85-7	8081A	2.2	U	2.3	U	-4.44
Pesticides	Chlordane (Technical)	12789-03-6	8081A	11	U	11	U	--
Pesticides	Delta-Bhc	319-86-8	8081A	2.2	U	2.3	U	-4.44
Pesticides	Dieldrin	60-57-1	8081A	2.2	U	2.3	U	-4.44
Pesticides	Endosulfan I	959-98-8	8081A	2.2	U	2.3	U	-4.44
Pesticides	Endosulfan II	33213-65-9	8081A	2.2	U	2.3	U	-4.44
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	2.2	U	2.3	U	-4.44
Pesticides	Endrin	72-20-8	8081A	2.2	U	2.3	U	-4.44
Pesticides	Endrin Aldehyde	7421-93-4	8081A	2.2	U	2.3	U	-4.44
Pesticides	Endrin Ketone	53494-70-5	8081A	2.2	U	2.3	U	-4.44
Pesticides	Gamma-Bhc (Lindane)	58-89-9	8081A	2.2	U	2.3	U	-4.44
Pesticides	Heptachlor	76-44-8	8081A	2.2	U	2.3	U	-4.44
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	2.2	U	2.3	U	-4.44
Pesticides	Methoxychlor	72-43-5	8081A	5.6	U	5.7	U	-1.77
Pesticides	Mirex	2385-85-5	8081A	2.2	U	2.3	U	-4.44
Pesticides	Technical Toxaphene	8001-35-2	8081A	56	U	57	U	-1.77
pH	pH	pH	9045D	8.79		8.73		0.68
TPH-EFH	EFH (C12-C14)	PHCC12C14	8015B EFH	5.6	U	5.7	U	-1.77
TPH-EFH	EFH (C15-C20)	PHCC15C20	8015B EFH	5.6	U	5.7	U	-1.77
TPH-EFH	EFH (C21-C30)	PHCC21C30	8015B EFH	14		36		-88.00
TPH-EFH	EFH (C30-C40)	PHCC30C40	8015B EFH	17		61		-112.82
TPH-EFH	EFH (C8-C11)	PHCC8C11	8015B EFH	5.6	U	5.7	U	-1.77
TPH-GRO	Gasoline Range Organics (C5-C12)	GROC5C12	8015B GRO		mg/kg			4.17

µg/kg - microgram per kilogram

mg/kg - milligram per kilogram

ng/g - nanogram per kilogram

FD - field duplicate sample

N - normal sample

RPD - relative percent difference

SO - soil

-- RPD not calculated when both field duplicate and normal samples were nondetect or 200\* - When one result is nondetect a 200% RPD is given and sample results are qualified  
 Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 - Subarea 5C Field Duplicate Results

		Location		5C_DG-695	5C_DG-695		5C_DG-700	5C_DG-700		
		Sample Name:	SL-995-SA5C-SB-0.0-0.5	SL-695-SA5C-SB-0.0-0.5	Sample Name:	RPD	SL-1000-SA5C-SB-4.0-5.0	SL-700-SA5C-SB-4.0-5.0	RPD	
		Start Depth:	0	0			06/18/2012	06/18/2012		
		End Depth:	0.5	0.5			4	4		
		Area:	5C_DG	5C_DG			5	5		
		Matrix:	SO	SO			SO	SO		
		Sample Type:	FD	N			FD	N		
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result	Unit					
Alcohols	2-Propanol	67-63-0	8015B		µg/kg					
Alcohols	Ethanol	64-17-5	8015B		µg/kg					
Alcohols	Methanol	67-56-1	8015B		µg/kg					
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B		ng/kg					
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B		ng/kg					
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B		ng/kg					
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B		ng/kg					
Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B		ng/kg					
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B		ng/kg					
Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B		ng/kg					
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B		ng/kg					
Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B		ng/kg					
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B		ng/kg					
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B		ng/kg					
Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B		ng/kg					
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B		ng/kg					
Dioxins	2,3,7,8-TCDF	1746-01-6	1613B		ng/kg					
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B		ng/kg					
Dioxins	OCDD	3268-87-9	1613B		ng/kg					
Dioxins	OCDF	39001-02-0	1613B		ng/kg					
Formaldehyde	Formaldehyde	50-00-0	8315A	3300	U		3300	U	--	
Glycols	Diethylene Glycol	111-46-6	8015M		mg/kg					
Glycols	Ethylene Glycol	107-21-1	8015M		mg/kg					
Glycols	Propylene Glycol	57-55-6	8015M		mg/kg					
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199	1.08	U		1.08	U	--	
Mercury	Mercury	7439-97-6	7471A	0.107	U		0.108	U	-0.93	
Metals	Aluminum	7429-90-5	6020	13600	mg/kg		15000	mg/kg	-9.79	
Metals	Antimony	7440-36-0	6020	0.186	J		0.2	J	-7.25	
Metals	Arsenic	7440-38-2	6020	4.07	mg/kg		4.01	mg/kg	1.49	
Metals	Barium	7440-39-3	6020	107	mg/kg		105	mg/kg	1.89	
Metals	Beryllium	7440-41-7	6020	0.617	mg/kg		0.621	mg/kg	-0.65	
Metals	Boron	7440-42-8	6020	5.26	U		5.38	U	-2.26	
Metals	Cadmium	7440-43-9	6020	0.149	J		0.168	J	-11.99	
Metals	Calcium	7440-70-2	6020	2100	mg/kg		2280	mg/kg	-8.22	
Metals	Chromium	7440-47-3	6020	18.1	mg/kg		19	mg/kg	-4.85	
Metals	Cobalt	7440-48-4	6020	5.17	mg/kg		5.22	mg/kg	-0.96	
Metals	Copper	7440-50-8	6020	6.58	mg/kg		7.51	mg/kg	-13.20	
Metals	Iron	7439-89-6	6020	18300	mg/kg		19200	mg/kg	-4.80	
Metals	Lead	7439-92-1	6020	6.24	mg/kg		5.72	mg/kg	8.70	
Metals	Lithium	7439-93-2	6020	12.7	mg/kg		16.6	mg/kg	-26.62	
Metals	Magnesium	7439-95-4	6020	3300	mg/kg		3790	mg/kg	-13.82	
Metals	Manganese	7439-96-5	6020	219	mg/kg		233	mg/kg	-6.19	
Metals	Molybdenum	7439-98-7	6020	0.467	J		0.461	J	1.29	
Metals	Nickel	7440-02-0	6020	8.58	mg/kg		9.97	mg/kg	-14.99	
Metals	Phosphorus	7723-14-0	6020	112	mg/kg		155	mg/kg	-32.21	
Metals	Potassium	7440-09-07	6020	1610	mg/kg		1860	mg/kg	-14.41	
Metals	Selenium	7782-49-2	6020	0.526	U		0.538	U	-2.26	
Metals	Silver	7440-22-4	6020	0.526	U		0.538	U	-2.26	
Metals	Sodium	7440-23-5	6020	175	mg/kg		181	mg/kg	-3.37	
Metals	Strontium	7440-24-6	6020	20.5	mg/kg		21.1	mg/kg	-2.88	
Metals	Thallium	7440-28-0	6020	0.248	J		0.263	J	-5.87	
Metals	Tin	7440-31-5	6020	10.5	U		10.8	U	-2.82	
Metals	Titanium	7440-32-6	6020	836	mg/kg		939	mg/kg	-11.61	
Metals	Vanadium	7440-62-2	6020	36.2	mg/kg		36	mg/kg	0.55	
Metals	Zinc	7440-66-6	6020	37.9	mg/kg		42.8	mg/kg	-12.14	
Metals	Zirconium	7440-67-7	6020	5.26	U		5.38	U	-2.26	
Moisture Content	Moisture	MOIST	160.3M	7.7	%		11.3	%	-37.89	
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM	5.4	U		5.4	U	--	
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM	11	U		11	U	--	
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM	11	U		11	U	--	
PAHs	Acenaphthene	83-32-9	8270C SIM	11	U		11	U	--	
PAHs	Acenaphthylene	208-96-8	8270C SIM	11	U		11	U	--	
PAHs	Anthracene	120-12-7	8270C SIM	11	U		11	U	--	
PAHs	Azobenzene	103-33-3	8270C SIM	5.4	U		5.4	U	--	
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM	11	U		11	U	--	
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM	11	U		11	U	--	
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM	11	U		11	U	--	
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM	5.4	U		5.4	U	--	
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM	11	U		11	U	--	
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM	11	U		11	U	--	
PAHs	Chrysene	218-01-9	8270C SIM	11	U		11	U	--	
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	11	U		11	U	--	
PAHs	Fluoranthene	206-44-0	8270C SIM	11	U		11	U	--	
PAHs	Fluorene	86-73-7	8270C SIM	11	U		11	U	--	
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM	11	U		11	U	--	
PAHs	Naphthalene	91-20-3	8270C SIM	11	U		11	U	--	
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM	11	U		11	U	--	
PAHs	Phenanthrene	85-01-8	8270C SIM	11	U		11	U	--	
PAHs	Pyrene	129-00-0	8270C SIM	11	U		11	U	--	
PCBsPCTS	Aroclor 1016	12674-11-2	8082	22	U		22	U	--	
PCBsPCTS	Aroclor 1221	11104-28-2	8082	22	U		22	U	--	
PCBsPCTS	Aroclor 1232	11141-16-5	8082	22	U		22	U	--	
PCBsPCTS	Aroclor 1242	53469-21-9	8082	22	U		22	U	--	
PCBsPCTS	Aroclor 1248	12672-29-6	8082	22	U		22	U	--	
PCBsPCTS	Aroclor 1254	11097-69-1	8082	22	U		22	U	--	
PCBsPCTS	Aroclor 1260	11096-82-5	8082	22	U		22	U	--	
PCBsPCTS	Aroclor 1262	37324-23-5	8082	22	U		22	U	--	
PCBsPCTS	Aroclor 1268	11100-14-4	8082	22	U		22	U	--	
PCBsPCTS	Aroclor 5432	63496-31-1	8082	43	U		43	U	--	
PCBsPCTS	Aroclor 5442	12642-23-8	8082	43	U		43	U	--	
PCBsPCTS	Aroclor 5460	11126-42-4	8082	43	U		43	U	--	
Perchlorate	Perchlorate	14797-73-0	6850		µg/kg					
Pesticides	4,4'-DDD	72-54-8	8081A		µg/kg					
Pesticides	4,4'-DDE	72-55-9	8081A		µg/kg					
Pesticides	4,4'-DDT	50-29-3	8081A		µg/kg					
Pesticides	Aldrin	309-00-2	8081A		µg/kg					
Pesticides	Alpha-Bhc	319-84-6	8081A		µg/kg					
Pesticides	Beta-Bhc	319-85-7	8081A		µg/kg					
Pesticides	Chlordane (Technical)	12789-03-6	8081A		µg/kg					
Pesticides	Delta-Bhc	319-86-8	8081A		µg/kg					
Pesticides	Dieldrin	60-57-1	8081A		µg/kg					
Pesticides	Endosulfan I	959-98-8	8081A		µg/kg					
Pesticides	Endosulfan II	33213-65-9	8081A		µg/kg					
Pesticides	Endosulfan Sulfate	1031-07-8	8081A		µg/kg					
Pesticides	Endrin	72-20-8	8081A		µg/kg					
Pesticides	Endrin Aldehyde	7421-93-4	8081A		µg/kg					
Pesticides	Endrin Ketone	53494-70-5	8081A		µg/kg					
Pesticides	Gamma-Bhc (Lindane)	58-89-9	8081A		µg/kg					
Pesticides	Heptachlor	76-44-8	8081A		µg/kg					
Pesticides	Heptachlor Epoxide	1024-57-3	8081A		µg/kg					
Pesticides	Methoxychlor	72-43-5	8081A		µg/kg					
Pesticides	Mirex	2385-85-5	8081A		µg/kg					
Pesticides	Technical Toxaphene	8001-35-2	8081A		µg/kg					
pH	pH		9045D		pH					
TPH-EFH	EFH (C12-C14)	PHCC12C14	8015B EFH	5.4	U		5.4	U	--	
TPH-EFH	EFH (C15-C20)	PHCC15C20	8015B EFH	5.4	U		5.4	U	--	
TPH-EFH	EFH (C21-C30)	PHCC21C30	8015B EFH	5.4	U		5.4	U	--	
TPH-EFH	EFH (C30-C40)	PHCC30C40	8015B EFH	11	U	43.09	16	U	-16.75	
TPH-EFH	EFH (C8-C11)	PHCC8C11	8015B EFH	5.4	U		5.4	U	--	
TPH-GRO	Gasoline Range Organics (C5-C12)	GROSC12	8015B GRO		mg/kg					

ug/kg - microgram per kilogram  
mg/kg - milligram per kilogram  
ng/g - nanogram per kilogram  
FD - field duplicate sample  
N - normal sample  
RPD - relative percent difference  
SO - soil  
-- - RPD not calculated when both field duplicate and normal samples were nondetect or 200\* - When one result is nondetect a 200% RPD is given and sample results are qualified  
Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 - Subarea 5C Field Duplicate Results

Location		5C_DG-700	5C_DG-700	Sample Name:	5C_DG-722	5C_DG-722	
Sample Date:		SL-1000-SA5C-SB-5.0	SL-700-SA5C-SB-5.0	06/18/2012	SL-1022-SA5C-SB-0.0-0.5	SL-722-SA5C-SB-0.0-0.5	
Start Depth:		5	5	5	0	0	
End Depth:		5	5	5	0.5	0.5	
Area:		5C_DG	5C_DG	5C_DG	5C_DG	5C_DG	
Matrix:		SO	SO	SO	SO	SO	
Sample Type:		FD	N	N	FD	N	RPD
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result	Unit	RPD	
Alcohols	2-Propanol	67-63-0	8015B		µg/kg		
Alcohols	Ethanol	64-17-5	8015B		µg/kg		
Alcohols	Methanol	67-56-1	8015B		µg/kg		
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B		ng/kg	5.15 UJ	1.81 J
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B		ng/kg	5.15 U	5.01 U
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B		ng/kg	5.15 U	5.01 U
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B		ng/kg	0.0367 J	5.01 UJ
Dioxins	1,2,3,4,7,8-HxCDF	70648-26-9	1613B		ng/kg	5.15 U	5.01 U
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B		ng/kg	5.15 U	5.01 U
Dioxins	1,2,3,6,7,8-HxCDF	57117-44-9	1613B		ng/kg	5.15 UJ	5.01 UJ
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B		ng/kg	5.15 U	5.01 U
Dioxins	1,2,3,7,8,9-HxCDF	72918-21-9	1613B		ng/kg	5.15 UJ	5.01 UJ
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B		ng/kg	0.116 J	5.01 UJ
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B		ng/kg	5.15 UJ	5.01 UJ
Dioxins	2,3,4,6,7,8-HxCDF	60851-34-5	1613B		ng/kg	5.15 UJ	5.01 UJ
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B		ng/kg	5.15 UJ	5.01 UJ
Dioxins	2,3,7,8-TCDD	1746-01-6	1613B		ng/kg	0.0217 J	1 UJ
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B		ng/kg	1.03 UJ	1 UJ
Dioxins	OCDD	3268-87-9	1613B		ng/kg	7.29 J	15.2 J
Dioxins	OCDF	39001-02-0	1613B		ng/kg	0.559 J	1.1 J
Formaldehyde	Formaldehyde	50-00-0	8315A		µg/kg		
Glycols	Diethylene Glycol	111-46-6	8015M		mg/kg		
Glycols	Ethylene Glycol	107-21-1	8015M		mg/kg		
Glycols	Propylene Glycol	57-55-6	8015M		mg/kg		
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-9	7199		mg/kg		
Mercury	Mercury	7439-97-6	7471A		mg/kg	0.104 U	0.103 U
Metals	Aluminum	7429-90-5	6020		mg/kg	5160 J	5270 J
Metals	Antimony	7440-36-0	6020		mg/kg	0.129 J	0.141 J
Metals	Arsenic	7440-38-2	6020		mg/kg	2.36	2.41
Metals	Barium	7440-39-3	6020		mg/kg	40.3	38.5
Metals	Beryllium	7440-41-7	6020		mg/kg	0.138 J	0.136 J
Metals	Boron	7440-42-8	6020		mg/kg	5.24 U	5.22 U
Metals	Cadmium	7440-43-9	6020		mg/kg	0.188 J	0.173 J
Metals	Calcium	7440-70-2	6020		mg/kg	4580	5390
Metals	Chromium	7440-47-3	6020		mg/kg	15	13.8
Metals	Cobalt	7440-48-4	6020		mg/kg	2.66	2.55
Metals	Copper	7440-50-8	6020		mg/kg	3.96	3.82
Metals	Iron	7439-89-6	6020		mg/kg	7550 J	7400 J
Metals	Lead	7439-92-1	6020		mg/kg	1.49	1.54
Metals	Lithium	7439-93-2	6020		mg/kg	2.96	2.88
Metals	Magnesium	7439-95-4	6020		mg/kg	1600	1590
Metals	Manganese	7439-96-5	6020		mg/kg	107	108
Metals	Molybdenum	7439-98-7	6020		mg/kg	0.954	0.845
Metals	Nickel	7440-02-0	6020		mg/kg	8.89	7.83
Metals	Phosphorus	7723-14-0	6020		mg/kg	409	386
Metals	Potassium	7440-09-07	6020		mg/kg	721	652
Metals	Selenium	7782-49-2	6020		mg/kg	0.337 J	0.387 J
Metals	Silver	7440-22-4	6020		mg/kg	0.524 U	0.522 U
Metals	Sodium	7440-23-5	6020		mg/kg	66.7 J	67.1 J
Metals	Strontium	7440-24-6	6020		mg/kg	32.5	30.1
Metals	Thallium	7440-28-0	6020		mg/kg	0.419 U	0.418 U
Metals	Tin	7440-31-5	6020		mg/kg	10.5 U	10.4 U
Metals	Titanium	7440-32-6	6020		mg/kg	274	274
Metals	Vanadium	7440-62-2	6020		mg/kg	16.5	16.8
Metals	Zinc	7440-66-6	6020		mg/kg	15	14.1
Metals	Zirconium	7440-67-7	6020		mg/kg	3.01 J	3.08 J
Moisture Content	Moisture	MOIST	160.3M		%	4.2	4.3
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM		µg/kg	5.2 U	5.2 U
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM		µg/kg	10 U	10 U
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM		µg/kg	10 U	10 U
PAHs	Acenaphthene	83-32-9	8270C SIM		µg/kg	10 U	10 U
PAHs	Acenaphthylene	208-96-8	8270C SIM		µg/kg	10 U	10 U
PAHs	Anthracene	120-12-7	8270C SIM		µg/kg	10 U	10 U
PAHs	Azobenzene	103-33-3	8270C SIM		µg/kg	5.2 U	5.2 U
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM		µg/kg	10 U	10 U
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM		µg/kg	10 U	10 U
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM		µg/kg	10 U	10 U
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM		µg/kg	5.2 U	5.2 U
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM		µg/kg	10 U	10 U
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM		µg/kg	10 U	10 U
PAHs	Chrysene	218-01-9	8270C SIM		µg/kg	10 U	10 U
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM		µg/kg	10 U	10 U
PAHs	Fluoranthene	206-44-0	8270C SIM		µg/kg	10 U	10 U
PAHs	Fluorene	86-73-7	8270C SIM		µg/kg	10 U	10 U
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM		µg/kg	10 U	10 U
PAHs	Naphthalene	91-20-3	8270C SIM		µg/kg	10 U	10 U
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM		µg/kg	10 U	10 U
PAHs	Phenanthrene	85-01-8	8270C SIM		µg/kg	10 U	10 U
PAHs	Pyrene	129-00-0	8270C SIM		µg/kg	10 U	10 U
PCBsPCTs	Aroclor 1016	12674-11-2	8082		µg/kg	21 U	21 U
PCBsPCTs	Aroclor 1221	11104-28-2	8082		µg/kg	21 U	21 U
PCBsPCTs	Aroclor 1232	11141-16-5	8082		µg/kg	21 U	21 U
PCBsPCTs	Aroclor 1242	53469-21-9	8082		µg/kg	21 U	21 U
PCBsPCTs	Aroclor 1248	12672-29-6	8082		µg/kg	21 U	21 U
PCBsPCTs	Aroclor 1254	11097-69-1	8082		µg/kg	21 U	21 U
PCBsPCTs	Aroclor 1260	11096-82-5	8082		µg/kg	21 U	21 U
PCBsPCTs	Aroclor 1262	37324-23-5	8082		µg/kg	21 U	21 U
PCBsPCTs	Aroclor 1268	11100-14-4	8082		µg/kg	21 U	21 U
PCBsPCTs	Aroclor 5432	63496-31-1	8082		µg/kg	42 U	42 U
PCBsPCTs	Aroclor 5442	12642-23-8	8082		µg/kg	42 U	42 U
PCBsPCTs	Aroclor 5460	11126-42-4	8082		µg/kg	42 U	42 U
Perchlorate	Perchlorate	14797-73-0	6850		µg/kg		
Pesticides	4,4'-DDD	72-54-8	8081A		µg/kg		
Pesticides	4,4'-DDE	72-55-9	8081A		µg/kg		
Pesticides	4,4'-DDT	50-29-3	8081A		µg/kg		
Pesticides	Aldrin	309-00-2	8081A		µg/kg		
Pesticides	Alpha-Bhc	319-84-6	8081A		µg/kg		
Pesticides	Beta-Bhc	319-85-7	8081A		µg/kg		
Pesticides	Chlordane (Technical)	12789-03-6	8081A		µg/kg		
Pesticides	Delta-Bhc	319-86-8	8081A		µg/kg		
Pesticides	Dieldrin	60-57-1	8081A		µg/kg		
Pesticides	Endosulfan I	959-98-8	8081A		µg/kg		
Pesticides	Endosulfan II	33213-65-9	8081A		µg/kg		
Pesticides	Endosulfan Sulfate	1031-07-8	8081A		µg/kg		
Pesticides	Endrin	72-20-8	8081A		µg/kg		
Pesticides	Endrin Aldehyde	7421-93-4	8081A		µg/kg		
Pesticides	Endrin Ketone	53494-70-5	8081A		µg/kg		
Pesticides	Gamma-Bhc (Lindane)	58-89-9	8081A		µg/kg		
Pesticides	Heptachlor	76-44-8	8081A		µg/kg		
Pesticides	Heptachlor Epoxide	1024-57-3	8081A		µg/kg		
Pesticides	Methoxychlor	72-43-5	8081A		µg/kg		
Pesticides	Mirex	2385-85-5	8081A		µg/kg		
Pesticides	Technical Toxaphene	8001-35-2	8081A		µg/kg		
pH	pH	pH	9045D		pH	8.74	8.81
TPH-EFH	EFH (C12-C14)	PHCC12C14	8015B EFH		mg/kg	5.2 U	5.2 U
TPH-EFH	EFH (C15-C20)	PHCC15C20	8015B EFH		mg/kg	5.2 U	5.2 U
TPH-EFH	EFH (C21-C30)	PHCC21C30	8015B EFH		mg/kg	5.2 U	5.2 U
TPH-EFH	EFH (C30-C40)	PHCC30C40	8015B EFH		mg/kg	10 U	10 U
TPH-EFH	EFH (C8-C11)	PHCC8C11	8015B EFH		mg/kg	5.2 U	5.2 U
TPH-GRO	Gasoline Range Organics (C5-C12)	GROC5C12	8015B GRO		mg/kg	1.1 U	0.94 U

µg/kg - microgram per kilogram

mg/kg - milligram per kilogram

ng/g - nanogram per kilogram

FD - field duplicate sample

N - normal sample

RPD - relative percent difference

SO - soil

-- RPD not calculated when both field duplicate and normal samples were nondetect or

200\* - When one result is nondetect a 200% RPD is given and sample results are qualified

Limit - 50% - If RPD is above 50% detected field duplicate results only were estimated "J"

Table C-5 - Subarea 5C Field Duplicate Results

				Location	5C_DG-727	5C_DG-727		5C_DG-727	5C_DG-727	
				Sample Name:	SL-1027-SA5C-SB-4.0-5.0	SL-727-SA5C-SB-4.0-5.0		SL-1027-SA5C-SB-5.0	SL-727-SA5C-SB-5.0	
				Sample Date:	05/21/2012	05/21/2012		05/21/2012	05/21/2012	
				Start Depth:	4	4		5	5	
				End Depth:	5	5	RPD	5	5	RPD
				Area:	5C_DG	5C_DG		5C_DG	5C_DG	
				Matrix:	SO	SO		SO	SO	
				Sample Type:	FD	N		FD	N	
MAG:	Chemical Name:	CAS No.:	Lab Method:	Result Unit						
Alcohols	2-Propanol	67-63-0	8015B	µg/kg						
Alcohols	Ethanol	64-17-5	8015B	µg/kg						
Alcohols	Methanol	67-56-1	8015B	µg/kg						
Dioxins	1,2,3,4,6,7,8-Heptachlorodibenzo-p-Dioxin	35822-46-9	1613B	ng/kg	5.63 U			5.46 U		3.07
Dioxins	1,2,3,4,6,7,8-HPCDF	67562-39-4	1613B	ng/kg	5.63 U			5.46 U		3.07
Dioxins	1,2,3,4,7,8,9-HPCDF	55673-89-7	1613B	ng/kg	5.63 U			5.46 U		3.07
Dioxins	1,2,3,4,7,8-Hexachlorodibenzo-p-Dioxin	39227-28-6	1613B	ng/kg	5.63 UJ			5.46 UJ		3.07
Dioxins	1,2,3,4,7,8-HXCDF	70648-26-9	1613B	ng/kg	5.63 UJ			5.46 UJ		3.07
Dioxins	1,2,3,6,7,8-Hexachlorodibenzo-p-Dioxin	57653-85-7	1613B	ng/kg	0.451 J			0.451 J		-1.32
Dioxins	1,2,3,6,7,8-HXCDF	57117-44-9	1613B	ng/kg	0.119 J			0.0569 J		70.61
Dioxins	1,2,3,7,8,9-Hexachlorodibenzo-p-Dioxin	19408-74-3	1613B	ng/kg	0.6 J			0.614 J		-2.31
Dioxins	1,2,3,7,8,9-HXCDF	72918-21-9	1613B	ng/kg	0.365 J			0.359 J		1.66
Dioxins	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	1613B	ng/kg	0.237 J			5.46 UJ		-183.36
Dioxins	1,2,3,7,8-Pentachlorodibenzo-p-Dioxin	40321-76-4	1613B	ng/kg	0.157 J			5.46 UJ		-188.82
Dioxins	2,3,4,6,7,8-HXCDF	60851-34-5	1613B	ng/kg	5.63 UJ			5.46 UJ		3.07
Dioxins	2,3,4,7,8-PCDF	57117-31-4	1613B	ng/kg	5.63 UJ			5.46 UJ		3.07
Dioxins	2,3,7,8-TCDD	1746-01-6	1613B	ng/kg	1.13 U			1.09 U		3.60
Dioxins	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	1613B	ng/kg	0.0312 J			1.09 UJ		-188.87
Dioxins	OCDD	3268-87-9	1613B	ng/kg	11.3 UJ			2.1 J		137.31
Dioxins	OCDF	39001-02-0	1613B	ng/kg	11.3 U			10.9 U		3.60
Formaldehyde	Formaldehyde	50-00-0	8315A	µg/kg						
Glycols	Diethylene Glycol	111-46-6	8015M	mg/kg						
Glycols	Ethylene Glycol	107-21-1	8015M	mg/kg						
Glycols	Propylene Glycol	57-55-6	8015M	mg/kg						
Hexavalent Chromium	Chromium (Hexavalent Compounds)	18540-29-6	7199	mg/kg						
Mercury	Mercury	7439-97-6	7471A	mg/kg	0.113 U			0.113 U		--
Metals	Aluminum	7429-90-5	6020	mg/kg	9810			10800		-9.61
Metals	Antimony	7440-36-0	6020	mg/kg	0.196 J			0.219 J		-11.08
Metals	Arsenic	7440-38-2	6020	mg/kg	2.84			3.24		-13.16
Metals	Barium	7440-39-3	6020	mg/kg	105			111		-5.56
Metals	Beryllium	7440-41-7	6020	mg/kg	0.493 J			0.563 J		-13.26
Metals	Boron	7440-42-8	6020	mg/kg	5.58 U			5.52 U		1.08
Metals	Cadmium	7440-43-9	6020	mg/kg	0.235 J			0.249 J		-5.79
Metals	Calcium	7440-70-2	6020	mg/kg	1380			1520		-9.66
Metals	Chromium	7440-47-3	6020	mg/kg	14			15.1		-7.56
Metals	Cobalt	7440-48-4	6020	mg/kg	5.96			5.76		3.41
Metals	Copper	7440-50-8	6020	mg/kg	8.16			9.03		-10.12
Metals	Iron	7439-89-6	6020	mg/kg	15000			16100		-7.07
Metals	Lead	7439-92-1	6020	mg/kg	4.21			4.67		-10.36
Metals	Lithium	7439-93-2	6020	mg/kg	10			10.9		-8.61
Metals	Magnesium	7439-95-4	6020	mg/kg	2620			2920		-10.83
Metals	Manganese	7439-96-5	6020	mg/kg	363 J			340 J		6.54
Metals	Molybdenum	7439-98-7	6020	mg/kg	0.74			0.844		-13.13
Metals	Nickel	7440-02-0	6020	mg/kg	9.12			9.83		-7.49
Metals	Phosphorus	7723-14-0	6020	mg/kg	140			161		-13.95
Metals	Potassium	7440-09-07	6020	mg/kg	2470			2490		-0.81
Metals	Selenium	7782-49-2	6020	mg/kg	0.558 U			0.552 U		1.08
Metals	Silver	7440-22-4	6020	mg/kg	0.558 U			0.552 U		1.08
Metals	Sodium	7440-23-5	6020	mg/kg	89.3 J			102 J		-13.28
Metals	Strontium	7440-24-6	6020	mg/kg	15.4			17.2		-11.04
Metals	Thallium	7440-28-0	6020	mg/kg	0.238 J			0.268 J		-11.86
Metals	Tin	7440-31-5	6020	mg/kg	11.2 U			11 U		1.80
Metals	Titanium	7440-32-6	6020	mg/kg	762			791		-3.73
Metals	Vanadium	7440-62-2	6020	mg/kg	26.8			29.1		-8.23
Metals	Zinc	7440-66-6	6020	mg/kg	33.8			36.9		-8.77
Metals	Zirconium	7440-67-7	6020	mg/kg	5.58 UJ			5.52 UJ		1.08
Moisture Content	Moisture	MOIST	160.3M	%	11.3			11.1		1.79
PAHs	1,1'-Biphenyl	92-52-4	8270C SIM	µg/kg	5.7 U			5.7 U		--
PAHs	1-Methylnaphthalene	90-12-0	8270C SIM	µg/kg	11 U			11 U		--
PAHs	2-Methylnaphthalene	91-57-6	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Acenaphthene	83-32-9	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Acenaphthylene	208-96-8	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Anthracene	120-12-7	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Azobenzene	103-33-3	8270C SIM	µg/kg	5.7 U			5.7 U		--
PAHs	Benzo(a)anthracene	56-55-3	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Benzo(a)pyrene	50-32-8	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Benzo(b)fluoranthene	205-99-2	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Benzo(e)pyrene	192-97-2	8270C SIM	µg/kg	3.9 J			2.9 J		29.41
PAHs	Benzo(g,h,i)perylene	191-24-2	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Benzo(k)fluoranthene	207-08-9	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Chrysene	218-01-9	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Dibenzo(a,h)anthracene	53-70-3	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Fluoranthene	206-44-0	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Fluorene	86-73-7	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Naphthalene	91-20-3	8270C SIM	µg/kg	11 U			11 U		--
PAHs	N-Nitrosodimethylamine	62-75-9	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Phenanthrene	85-01-8	8270C SIM	µg/kg	11 U			11 U		--
PAHs	Pyrene	129-00-0	8270C SIM	µg/kg	11 U			11 U		--
PCBs/PCTs	Aroclor 1016	12674-11-2	8082	µg/kg	23 U			23 U		--
PCBs/PCTs	Aroclor 1221	11104-28-2	8082	µg/kg	23 U			23 U		--
PCBs/PCTs	Aroclor 1232	11141-16-5	8082	µg/kg	23 U			23 U		--
PCBs/PCTs	Aroclor 1242	53469-21-9	8082	µg/kg	23 U			23 U		--
PCBs/PCTs	Aroclor 1248	12672-29-6	8082	µg/kg	23 U			23 U		--
PCBs/PCTs	Aroclor 1254	11097-69-1	8082	µg/kg	23 U			23 U		--
PCBs/PCTs	Aroclor 1260	11096-82-5	8082	µg/kg	23 U			23 U		--
PCBs/PCTs	Aroclor 1262	37324-23-5	8082	µg/kg	23 U			23 U		--
PCBs/PCTs	Aroclor 1268	11100-14-4	8082	µg/kg	23 U			23 U		--
PCBs/PCTs	Aroclor 5432	63496-31-1	8082	µg/kg	45 U			45 U		--
PCBs/PCTs	Aroclor 5442	12642-23-8	8082	µg/kg	45 U			45 U		--
PCBs/PCTs	Aroclor 5460	11126-42-4	8082	µg/kg	45 U			45 U		--
Perchlorate	Perchlorate	14797-73-0	6850	µg/kg						
Pesticides	4,4'-DDD	72-54-8	8081A	µg/kg						
Pesticides	4,4'-DDE	72-55-9	8081A	µg/kg						
Pesticides	4,4'-DDT	50-29-3	8081A	µg/kg						
Pesticides	Aldrin	309-00-2	8081A	µg/kg						
Pesticides	Alpha-Bhc	319-84-6	8081A	µg/kg						
Pesticides	Beta-Bhc	319-85-7	8081A	µg/kg						
Pesticides	Chlordane (Technical)	12789-03-6	8081A	µg/kg						
Pesticides	Delta-Bhc	319-86-8	8081A	µg/kg						
Pesticides	Dieldrin	60-57-1	8081A	µg/kg						
Pesticides	Endosulfan I	959-98-8	8081A	µg/kg						
Pesticides	Endosulfan II	33213-65-9	8081A	µg/kg						
Pesticides	Endosulfan Sulfate	1031-07-8	8081A	µg/kg						
Pesticides	Endrin	72-20-8	8081A	µg/kg						
Pesticides	Endrin Aldehyde	7421-93-4	8081A	µg/kg						
Pesticides	Endrin Ketone	53494-70-5	8081A	µg/kg						
Pesticides	Gamma-Bhc (Lindane)	58-89-9	8081A	µg/kg						
Pesticides	Heptachlor	76-44-8	8081A	µg/kg						
Pesticides	Heptachlor Epoxide	1024-57-3	8081A	µg/kg						
Pesticides	Methoxychlor	72-43-5	8081A	µg/kg						
Pesticides	Mirex	2385-85-5	8081A	µg/kg						
Pesticides	Technical Toxaphene	8001-35-2	8081A	µg/kg						

**Table C6 – Subarea 5C - Summary of Data Completeness Following Data Validation**

	Number of Analyte Detections Without Qualifiers	Number of Estimated Results	Number of Rejected Results	Number of Nondetect Results	Number of Estimated Nondetect Results	Total Analytes Detect and Nondetect	Percent of Analyte Results Judged Valid Versus Total Analyte Results Collected
Dioxins	443	1923		2427	52	4845	100
Perchlorate-314.0				1		1	100
Perchlorate-6850				121		121	100
Metals	6781	2203		1406	110	10500	100
Hexavalent Chromium	1			65		66	100
Mercury	11	12		321	7	351	100
Alcohols				171		171	100
TPH EFH	220	73		1154	3	1450	100
TPH GRO				175		175	100
Glycols				171		171	100
Pesticides		1		167		168	100
PCBs/PCTs	42	18		4488	144	4692	100
Herbicides				30		30	100
VOCs	2	1		458	1	462	100
1-4 Dioxane				6		6	100
SVOCs SIM	215	516		6003	834	7568	100
Formaldehyde	5	1		27		33	100
<b>Completeness Total for All Subarea 5C Samples Collected and Judged Valid</b>							<b>100</b>

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5C_DG	SL-679-SA5C-SB-0.0-0.5	12D121	SO	2012-04-12	FIELD
5C_DG	SL-681-SA5C-SB-0.0-0.5	12D121	SO	2012-04-12	FIELD
5C_DG	SL-683-SA5C-SB-0.0-0.5	12D121	SO	2012-04-12	FIELD
5C_DG	SL-684-SA5C-SB-0.0-0.5	12D121	SO	2012-04-12	FIELD
5C_DG	SL-685-SA5C-SB-0.0-0.5	12D121	SO	2012-04-12	FIELD
5C_DG	SL-686-SA5C-SB-0.0-0.5	12D121	SO	2012-04-12	FIELD
5C_DG	SL-735-SA5C-SB-0.0-0.5	12D121	SO	2012-04-12	FIELD
5C_DG	SL-737-SA5C-SB-0.0-0.5	12D121	SO	2012-04-12	FIELD
5C_DG	SL-687-SA5C-SB-0.0-0.5	12D147	SO	2012-04-16	FIELD
5C_DG	SL-688-SA5C-SB-0.0-0.5	12D147	SO	2012-04-16	FIELD
5C_DG	SL-689-SA5C-SB-0.0-0.5	12D147	SO	2012-04-16	FIELD
5C_DG	SL-690-SA5C-SB-0.0-0.5	12D147	SO	2012-04-16	FIELD
5C_DG	SL-691-SA5C-SB-0.0-0.5	12D147	SO	2012-04-16	FIELD
5C_DG	SL-692-SA5C-SB-0.0-0.5	12D147	SO	2012-04-16	FIELD
5C_DG	SL-693-SA5C-SB-0.0-0.5	12D147	SO	2012-04-16	FIELD
5C_DG	SL-744A-SA5C-SB-0.0-0.5	12D147	SO	2012-04-16	FIELD
5C_DG	SL-514-SA5C-SB-0.0-0.5	12D155	SO	2012-04-17	FIELD
5C_DG	SL-577-SA5C-SB-0.0-0.5	12D155	SO	2012-04-17	FIELD
5C_DG	SL-578-SA5C-SB-0.0-0.5	12D155	SO	2012-04-17	FIELD
5C_DG	SL-581-SA5C-SB-0.0-0.5	12D155	SO	2012-04-17	FIELD
5C_DG	SL-680-SA5C-SB-0.0-0.5	12D155	SO	2012-04-17	FIELD
5C_DG	SL-744A-SA5C-SB-1.5-2.5	12D155	SO	2012-04-16	FIELD
5C_DG	SL-744B-SA5C-SB-0.0-0.5	12D155	SO	2012-04-16	FIELD
5C_DG	SL-744B-SA5C-SB-2.0-3.0	12D155	SO	2012-04-16	FIELD
5C_DG	SL-744C-SA5C-SB-0.0-0.5	12D155	SO	2012-04-16	FIELD
5C_DG	SL-744C-SA5C-SB-2.0-3.0	12D155	SO	2012-04-16	FIELD
5C_DG	SL-747-SA5C-SB-0.0-0.5	12D155	SO	2012-04-17	FIELD
5C_DG	SL-814-SA5C-SB-0.0-0.5	12D155	SO	2012-04-17	FIELD
5C_DG	SL-570-SA5C-SB-0.0-0.5	12D165	SO	2012-04-18	FIELD
5C_DG	SL-570-SA5C-SB-2.0-3.0	12D165	SO	2012-04-18	FIELD
5C_DG	SL-579-SA5C-SB-0.0-0.5	12D165	SO	2012-04-18	FIELD
5C_DG	SL-579-SA5C-SB-4.0-5.0	12D165	SO	2012-04-18	FIELD
5C_DG	SL-580-SA5C-SB-0.0-0.5	12D165	SO	2012-04-18	FIELD
5C_DG	SL-580-SA5C-SB-4.0-5.0	12D165	SO	2012-04-18	FIELD
	EB-041912	12D175	WQ	2012-04-19	FIELD
5C_DG	SL-510-SA5C-SB-0.0-0.5	12D175	SO	2012-04-19	FIELD
5C_DG	SL-513-SA5C-SB-0.0-0.5	12D175	SO	2012-04-19	FIELD
5C_DG	SL-515-SA5C-SB-0.0-0.5	12D175	SO	2012-04-19	FIELD
5C_DG	SL-516-SA5C-SB-0.0-0.5	12D175	SO	2012-04-19	FIELD
5C_DG	SL-516-SA5C-SB-4.0-5.0	12D175	SO	2012-04-19	FIELD
5C_DG	SL-517-SA5C-SB-0.0-0.5	12D175	SO	2012-04-19	FIELD
5C_DG	SL-518-SA5C-SB-0.0-0.5	12D175	SO	2012-04-19	FIELD
5C_DG	SL-575-SA5C-SB-0.0-0.5	12D175	SO	2012-04-19	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5C_DG	SL-501-SA5C-SB-0.0-0.5	12D191	SO	2012-04-20	FIELD
5C_DG	SL-502-SA5C-SB-0.0-0.5	12D191	SO	2012-04-20	FIELD
5C_DG	SL-507-SA5C-SB-0.0-0.5	12D191	SO	2012-04-20	FIELD
5C_DG	SL-508-SA5C-SB-0.0-0.5	12D191	SO	2012-04-20	FIELD
5C_DG	SL-509-SA5C-SB-0.0-0.5	12D191	SO	2012-04-20	FIELD
5C_DG	SL-574-SA5C-SB-0.0-0.5	12D191	SO	2012-04-20	FIELD
5C_DG	SL-633-SA5C-SB-0.0-0.5	12D191	SO	2012-04-20	FIELD
5C_DG	SL-633-SA5C-SB-2.0-3.0	12D191	SO	2012-04-20	FIELD
5C_DG	SL-634-SA5C-SB-0.0-0.5	12D191	SO	2012-04-20	FIELD
5C_DG	SL-634-SA5C-SB-2.0-3.0	12D191	SO	2012-04-20	FIELD
5C_DG	SL-802-SA5C-SB-0.0-0.5	12D191	SO	2012-04-20	FIELD
5C_DG	SL-512A-SA5C-SB-0.0-0.5	12D198	SO	2012-04-23	FIELD
5C_DG	SL-520-SA5C-SB-0.0-0.5	12D198	SO	2012-04-23	FIELD
5C_DG	SL-532-SA5C-SB-0.0-0.5	12D198	SO	2012-04-23	FIELD
5C_DG	SL-533-SA5C-SB-0.0-0.5	12D198	SO	2012-04-23	FIELD
5C_DG	SL-632-SA5C-SB-0.0-0.5	12D198	SO	2012-04-23	FIELD
5C_DG	SL-632-SA5C-SB-2.0-3.0	12D198	SO	2012-04-23	FIELD
5C_DG	SL-635-SA5C-SB-0.0-0.5	12D198	SO	2012-04-23	FIELD
5C_DG	SL-524-SA5C-SB-0.0-0.5	12D208	SO	2012-04-24	FIELD
5C_DG	SL-525-SA5C-SB-0.0-0.5	12D208	SO	2012-04-24	FIELD
5C_DG	SL-556A-SA5C-SB-0.0-0.5	12D208	SO	2012-04-24	FIELD
5C_DG	SL-556B-SA5C-SB-0.0-0.5	12D208	SO	2012-04-24	FIELD
5C_DG	SL-556C-SA5C-SB-0.0-0.5	12D208	SO	2012-04-24	FIELD
5C_DG	SL-556D-SA5C-SB-0.0-0.5	12D208	SO	2012-04-24	FIELD
5C_DG	SL-557A-SA5C-SB-0.0-0.5	12D208	SO	2012-04-24	FIELD
5C_DG	SL-557B-SA5C-SB-0.0-0.5	12D208	SO	2012-04-24	FIELD
5C_DG	SL-557C-SA5C-SB-0.0-0.5	12D208	SO	2012-04-24	FIELD
5C_DG	SL-557D-SA5C-SB-0.0-0.5	12D208	SO	2012-04-24	FIELD
5C_DG	SL-635-SA5C-SB-2.0-3.0	12D208	SO	2012-04-23	FIELD
5C_DG	SL-856D-SA5C-SB-0.0-0.5	12D208	SO	2012-04-24	FIELD
5C_DG	SL-522-SA5C-SB-0.0-0.5	12D231	SO	2012-04-25	FIELD
5C_DG	SL-523-SA5C-SB-0.0-0.5	12D231	SO	2012-04-25	FIELD
5C_DG	SL-526-SA5C-SB-0.0-0.5	12D231	SO	2012-04-25	FIELD
5C_DG	SL-527-SA5C-SB-0.0-0.5	12D231	SO	2012-04-25	FIELD
5C_DG	SL-528-SA5C-SB-0.0-0.5	12D231	SO	2012-04-25	FIELD
5C_DG	SL-529-SA5C-SB-0.0-0.5	12D231	SO	2012-04-25	FIELD
5C_DG	SL-530-SA5C-SB-0.0-0.5	12D231	SO	2012-04-25	FIELD
5C_DG	SL-531-SA5C-SB-0.0-0.5	12D231	SO	2012-04-25	FIELD
5C_DG	SL-623-SA5C-SB-0.0-0.5	12D231	SO	2012-04-25	FIELD
5C_DG	SL-698-SA5C-SB-0.0-0.5	12D231	SO	2012-04-25	FIELD
5C_DG	SL-699-SA5C-SB-0.0-0.5	12D231	SO	2012-04-25	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB-042612	12D256	WQ	2012-04-26	FIELD
5C_DG	SL-571-SA5C-SB-0.0-0.5	12D256	SO	2012-04-26	FIELD
5C_DG	SL-695-SA5C-SB-0.0-0.5	12D256	SO	2012-04-26	FIELD
5C_DG	SL-697-SA5C-SB-0.0-0.5	12D256	SO	2012-04-26	FIELD
5C_DG	SL-700-SA5C-SB-0.0-0.5	12D256	SO	2012-04-26	FIELD
5C_DG	SL-701-SA5C-SB-0.0-0.5	12D256	SO	2012-04-26	FIELD
5C_DG	SL-702-SA5C-SB-0.0-0.5	12D256	SO	2012-04-26	FIELD
5C_DG	SL-703-SA5C-SB-0.0-0.5	12D256	SO	2012-04-26	FIELD
5C_DG	SL-709-SA5C-SB-0.0-0.5	12D256	SO	2012-04-26	FIELD
5C_DG	SL-711-SA5C-SB-0.0-0.5	12D256	SO	2012-04-26	FIELD
5C_DG	SL-995-SA5C-SB-0.0-0.5	12D256	SO	2012-04-26	FIELD
5C_DG	SL-710A-SA5C-SB-0.0-0.5	12D275	SO	2012-04-30	FIELD
5C_DG	SL-710A-SA5C-SB-2.0-3.0	12D275	SO	2012-04-30	FIELD
5C_DG	SL-710B-SA5C-SB-0.0-0.5	12D275	SO	2012-04-30	FIELD
5C_DG	SL-710B-SA5C-SB-2.0-3.0	12D275	SO	2012-04-30	FIELD
5C_DG	SL-710C-SA5C-SB-0.0-0.5	12D275	SO	2012-04-30	FIELD
5C_DG	SL-710C-SA5C-SB-2.0-3.0	12D275	SO	2012-04-30	FIELD
5C_DG	SL-710D-SA5C-SB-0.0-0.5	12D275	SO	2012-04-30	FIELD
5C_DG	SL-710D-SA5C-SB-2.0-3.0	12D275	SO	2012-04-30	FIELD
5C_DG	SL-712-SA5C-SB-0.0-0.5	12D275	SO	2012-04-30	FIELD
5C_DG	SL-713-SA5C-SB-0.0-0.5	12D275	SO	2012-04-30	FIELD
5C_DG	SL-715-SA5C-SB-0.0-0.5	12D275	SO	2012-04-30	FIELD
5C_DG	SL-720-SA5C-SB-0.0-0.5	12D275	SO	2012-04-30	FIELD
5C_DG	SL-1022-SA5C-SB-0.0-0.5	12E004	SO	2012-05-01	FIELD
5C_DG	SL-516-SA5C-SB-5.0	12E004	SO	2012-05-01	FIELD
5C_DG	SL-570-SA5C-SB-1.5	12E004	SO	2012-05-01	FIELD
5C_DG	SL-579-SA5C-SB-5.0	12E004	SO	2012-05-01	FIELD
5C_DG	SL-580-SA5C-SB-5.0	12E004	SO	2012-05-01	FIELD
5C_DG	SL-722-SA5C-SB-0.0-0.5	12E004	SO	2012-05-01	FIELD
	TB-050112	12E004	WQ	2012-05-01	FIELD
5C_DG	SL-585-SA5C-SB-0.0-0.5	12E018	SO	2012-05-02	FIELD
5C_DG	SL-587-SA5C-SB-0.0-0.5	12E018	SO	2012-05-02	FIELD
5C_DG	SL-591-SA5C-SB-0.0-0.5	12E018	SO	2012-05-02	FIELD
5C_DG	SL-599-SA5C-SB-0.0-0.5	12E018	SO	2012-05-02	FIELD
5C_DG	SL-600-SA5C-SB-0.0-0.5	12E018	SO	2012-05-02	FIELD
5C_DG	SL-604-SA5C-SB-0.0-0.5	12E018	SO	2012-05-02	FIELD
5C_DG	SL-716-SA5C-SB-0.0-0.5	12E018	SO	2012-05-02	FIELD
5C_DG	SL-717-SA5C-SB-0.0-0.5	12E018	SO	2012-05-02	FIELD
5C_DG	SL-718-SA5C-SB-0.0-0.5	12E018	SO	2012-05-02	FIELD
5C_DG	SL-719-SA5C-SB-0.0-0.5	12E018	SO	2012-05-02	FIELD
	EB-050312	12E034	WQ	2012-05-03	FIELD
5C_DG	SL-584-SA5C-SB-0.0-0.5	12E034	SO	2012-05-03	FIELD
5C_DG	SL-602-SA5C-SB-0.0-0.5	12E034	SO	2012-05-02	FIELD
5C_DG	SL-603-SA5C-SB-0.0-0.5	12E034	SO	2012-05-03	FIELD
5C_DG	SL-606-SA5C-SB-0.0-0.5	12E034	SO	2012-05-03	FIELD
5C_DG	SL-612-SA5C-SB-0.0-0.5	12E034	SO	2012-05-03	FIELD
5C_DG	SL-903-SA5C-SB-0.0-0.5	12E034	SO	2012-05-03	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB-050312	12E049	WQ	2012-05-03	FIELD
5C_DG	SL-586-SA5C-SB-0.0-0.5	12E049	SO	2012-05-07	FIELD
5C_DG	SL-589-SA5C-SB-0.0-0.5	12E049	SO	2012-05-07	FIELD
5C_DG	SL-592-SA5C-SB-0.0-0.5	12E049	SO	2012-05-07	FIELD
5C_DG	SL-592-SA5C-SB-0.5	12E049	SO	2012-05-07	FIELD
5C_DG	SL-595-SA5C-SB-1.0-2.0	12E049	SO	2012-05-07	FIELD
5C_DG	SL-595-SA5C-SB-2.0-3.0	12E049	SO	2012-05-07	FIELD
5C_DG	SL-615-SA5C-SB-0.0-0.5	12E049	SO	2012-05-07	FIELD
	TB-050712	12E049	WQ	2012-05-07	FIELD
5C_DG	SL-536-SA5C-SB-0.0-0.5	12E055	SO	2012-05-08	FIELD
5C_DG	SL-547-SA5C-SB-0.0-0.5	12E055	SO	2012-05-08	FIELD
5C_DG	SL-548-SA5C-SB-0.0-0.5	12E055	SO	2012-05-08	FIELD
5C_DG	SL-566-SA5C-SB-0.0-0.5	12E055	SO	2012-05-08	FIELD
5C_DG	SL-644-SA5C-SB-1.0-2.0	12E055	SO	2012-05-08	FIELD
5C_DG	SL-644-SA5C-SB-2.0-3.0	12E055	SO	2012-05-08	FIELD
5C_DG	SL-671-SA5C-SB-0.0-0.5	12E055	SO	2012-05-08	FIELD
5C_DG	SL-673-SA5C-SB-0.0-0.5	12E055	SO	2012-05-08	FIELD
5C_DG	SL-542-SA5C-SB-0.0-0.5	12E067	SO	2012-05-09	FIELD
5C_DG	SL-542-SA5C-SB-1.0-2.0	12E067	SO	2012-05-09	FIELD
5C_DG	SL-608-SA5C-SB-0.0-0.5	12E067	SO	2012-05-09	FIELD
5C_DG	SL-609-SA5C-SB-0.0-0.5	12E067	SO	2012-05-09	FIELD
5C_DG	SL-613-SA5C-SB-0.0-0.5	12E067	SO	2012-05-09	FIELD
	EB-051012	12E082	WQ	2012-05-10	FIELD
5C_DG	SL-512-SA5C-SB-0.0-0.5	12E082	SO	2012-05-10	FIELD
5C_DG	SL-512-SA5C-SB-4.0-5.0	12E082	SO	2012-05-10	FIELD
5C_DG	SL-512-SA5C-SB-5.0	12E082	SO	2012-05-10	FIELD
5C_DG	SL-512-SA5C-SB-6.0-7.0	12E082	SO	2012-05-10	FIELD
5C_DG	SL-512-SA5C-SB-7.0	12E082	SO	2012-05-10	FIELD
5C_DG	SL-513-SA5C-SB-4.0-5.0	12E082	SO	2012-05-10	FIELD
5C_DG	SL-513-SA5C-SB-5.0	12E082	SO	2012-05-10	FIELD
5C_DG	SL-529-SA5C-SB-4.0-5.0	12E082	SO	2012-05-09	FIELD
5C_DG	SL-529-SA5C-SB-5.0	12E082	SO	2012-05-10	FIELD
5C_DG	SL-812-SA5C-SB-0.0-0.5	12E082	SO	2012-05-10	FIELD
	TB-051012	12E082	WQ	2012-05-10	FIELD
5C_DG	SL-513-SA5C-SB-10.0	12E098	SO	2012-05-14	FIELD
5C_DG	SL-513-SA5C-SB-9.0-10.0	12E098	SO	2012-05-14	FIELD
5C_DG	SL-514-SA5C-SB-10.0	12E098	SO	2012-05-14	FIELD
5C_DG	SL-514-SA5C-SB-4.0-5.0	12E098	SO	2012-05-14	FIELD
5C_DG	SL-514-SA5C-SB-5.0	12E098	SO	2012-05-14	FIELD
5C_DG	SL-514-SA5C-SB-9.0-10.0	12E098	SO	2012-05-14	FIELD
	TB-051412	12E098	WQ	2012-05-14	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5C_DG	SL-556B-SA5C-SB-2.0-3.0	12E108	SO	2012-05-15	FIELD
5C_DG	SL-556C-SA5C-SB-2.0-3.0	12E108	SO	2012-05-15	FIELD
5C_DG	SL-556D-SA5C-SB-2.0-3.0	12E108	SO	2012-05-15	FIELD
5C_DG	SL-557A-SA5C-SB-2.0-3.0	12E108	SO	2012-05-15	FIELD
5C_DG	SL-557B-SA5C-SB-2.0-3.0	12E108	SO	2012-05-15	FIELD
5C_DG	SL-557C-SA5C-SB-2.0-3.0	12E108	SO	2012-05-15	FIELD
5C_DG	SL-557D-SA5C-SB-2.0-3.0	12E108	SO	2012-05-15	FIELD
5C_DG	SL-856D-SA5C-SB-2.0-3.0	12E108	SO	2012-05-15	FIELD
5C_DG	SL-695-SA5C-SB-10.0	12E116	SO	2012-05-16	FIELD
5C_DG	SL-695-SA5C-SB-4.0-5.0	12E116	SO	2012-05-16	FIELD
5C_DG	SL-695-SA5C-SB-5.0	12E116	SO	2012-05-16	FIELD
5C_DG	SL-695-SA5C-SB-9.0-10.0	12E116	SO	2012-05-16	FIELD
5C_DG	SL-697-SA5C-SB-10.0	12E116	SO	2012-05-16	FIELD
5C_DG	SL-697-SA5C-SB-4.0-5.0	12E116	SO	2012-05-16	FIELD
5C_DG	SL-697-SA5C-SB-5.0	12E116	SO	2012-05-16	FIELD
5C_DG	SL-697-SA5C-SB-9.0-10.0	12E116	SO	2012-05-16	FIELD
5C_DG	SL-698-SA5C-SB-10.0	12E116	SO	2012-05-16	FIELD
5C_DG	SL-698-SA5C-SB-4.0-5.0	12E116	SO	2012-05-16	FIELD
5C_DG	SL-698-SA5C-SB-5.0	12E116	SO	2012-05-16	FIELD
5C_DG	SL-698-SA5C-SB-9.0-10.0	12E116	SO	2012-05-16	FIELD
	TB-051612	12E116	WQ	2012-05-16	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB1-051712	12E134	WQ	2012-05-17	FIELD
	EB2-051712	12E134	WQ	2012-05-17	FIELD
5C_DG	SL-686-SA5C-SB-10.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-686-SA5C-SB-4.0-5.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-686-SA5C-SB-5.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-686-SA5C-SB-9.0-10.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-735-SA5C-SB-10.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-735-SA5C-SB-4.0-5.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-735-SA5C-SB-5.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-735-SA5C-SB-9.0-10.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-736-SA5C-SB-10.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-736-SA5C-SB-2.0-3.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-736-SA5C-SB-4.0-5.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-736-SA5C-SB-5.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-736-SA5C-SB-9.0-10.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-737-SA5C-SB-10.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-737-SA5C-SB-2.5-3.5	12E134	SO	2012-05-17	FIELD
5C_DG	SL-737-SA5C-SB-4.0-5.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-737-SA5C-SB-5.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-737-SA5C-SB-9.0-10.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-738-SA5C-SB-0.0-0.5	12E134	SO	2012-05-17	FIELD
5C_DG	SL-738-SA5C-SB-10.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-738-SA5C-SB-4.0-5.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-738-SA5C-SB-5.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-738-SA5C-SB-9.0-10.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-739-SA5C-SB-0.0-0.5	12E134	SO	2012-05-17	FIELD
5C_DG	SL-739-SA5C-SB-10.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-739-SA5C-SB-4.0-5.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-739-SA5C-SB-5.0	12E134	SO	2012-05-17	FIELD
5C_DG	SL-739-SA5C-SB-9.0-10.0	12E134	SO	2012-05-17	FIELD
	TB-051712	12E134	WQ	2012-05-17	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5C_DG	SL-1027-SA5C-SB-4.0-5.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-1027-SA5C-SB-5.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-727-SA5C-SB-0.0-0.5	12E155	SO	2012-05-21	FIELD
5C_DG	SL-727-SA5C-SB-10.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-727-SA5C-SB-4.0-5.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-727-SA5C-SB-5.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-727-SA5C-SB-9.0-10.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-728-SA5C-SB-0.0-0.5	12E155	SO	2012-05-21	FIELD
5C_DG	SL-728-SA5C-SB-10.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-728-SA5C-SB-4.0-5.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-728-SA5C-SB-5.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-728-SA5C-SB-9.0-10.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-729-SA5C-SB-0.0-0.5	12E155	SO	2012-05-21	FIELD
5C_DG	SL-729-SA5C-SB-10.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-729-SA5C-SB-4.0-5.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-729-SA5C-SB-5.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-729-SA5C-SB-9.0-10.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-734-SA5C-SB-0.0-0.5	12E155	SO	2012-05-21	FIELD
5C_DG	SL-734-SA5C-SB-10.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-734-SA5C-SB-4.0-5.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-734-SA5C-SB-5.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-734-SA5C-SB-9.0-10.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-740-SA5C-SB-10.0	12E155	SO	2012-05-21	FIELD
5C_DG	SL-740-SA5C-SB-9.0-10.0	12E155	SO	2012-05-21	FIELD
	TB-052112	12E155	WQ	2012-05-21	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5C_DG	SL-682-SA5C-SB-0.0-0.5	12E169	SO	2012-05-22	FIELD
5C_DG	SL-682-SA5C-SB-10.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-682-SA5C-SB-4.0-5.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-682-SA5C-SB-5.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-682-SA5C-SB-9.0-10.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-730-SA5C-SB-0.0-0.5	12E169	SO	2012-05-22	FIELD
5C_DG	SL-730-SA5C-SB-10.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-730-SA5C-SB-4.0-5.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-730-SA5C-SB-5.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-730-SA5C-SB-9.0-10.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-731-SA5C-SB-0.0-0.5	12E169	SO	2012-05-22	FIELD
5C_DG	SL-731-SA5C-SB-10.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-731-SA5C-SB-4.0-5.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-731-SA5C-SB-5.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-731-SA5C-SB-9.0-10.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-732-SA5C-SB-10.5-11.5	12E169	SO	2012-05-22	FIELD
5C_DG	SL-732-SA5C-SB-11.5	12E169	SO	2012-05-22	FIELD
5C_DG	SL-732-SA5C-SB-5.0-6.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-732-SA5C-SB-6.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-733-SA5C-SB-0.0-0.5	12E169	SO	2012-05-22	FIELD
5C_DG	SL-733-SA5C-SB-10.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-733-SA5C-SB-4.0-5.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-733-SA5C-SB-5.0	12E169	SO	2012-05-22	FIELD
5C_DG	SL-733-SA5C-SB-9.0-10.0	12E169	SO	2012-05-22	FIELD
	TB-052212	12E169	WQ	2012-05-22	FIELD
5C_DG	SL-671-SA5C-SB-2.0-3.0	12E187	SO	2012-05-23	FIELD
5C_DG	SL-671-SA5C-SB-3.0	12E187	SO	2012-05-23	FIELD
5C_DG	SL-674-SA5C-SB-0.0-0.5	12E187	SO	2012-05-23	FIELD
5C_DG	SL-674-SA5C-SB-2.5-3.5	12E187	SO	2012-05-23	FIELD
5C_DG	SL-674-SA5C-SB-3.5	12E187	SO	2012-05-23	FIELD
5C_DG	SL-675-SA5C-SB-0.0-0.5	12E187	SO	2012-05-23	FIELD
5C_DG	SL-676-SA5C-SB-0.0-0.5	12E187	SO	2012-05-23	FIELD
5C_DG	SL-676-SA5C-SB-4.0-5.0	12E187	SO	2012-05-23	FIELD
5C_DG	SL-676-SA5C-SB-5.0	12E187	SO	2012-05-23	FIELD
5C_DG	SL-678-SA5C-SB-0.0-0.5	12E187	SO	2012-05-23	FIELD
5C_DG	SL-678-SA5C-SB-2.5-3.5	12E187	SO	2012-05-23	FIELD
5C_DG	SL-678-SA5C-SB-3.5	12E187	SO	2012-05-23	FIELD
5C_DG	SL-681-SA5C-SB-4.0-5.0	12E187	SO	2012-05-23	FIELD
5C_DG	SL-681-SA5C-SB-5.0	12E187	SO	2012-05-23	FIELD
5C_DG	SL-681-SA5C-SB-7.5-8.5	12E187	SO	2012-05-23	FIELD
5C_DG	SL-681-SA5C-SB-8.5	12E187	SO	2012-05-23	FIELD
5C_DG	SL-976-SA5C-SB-4.0-5.0	12E187	SO	2012-05-23	FIELD
5C_DG	SL-976-SA5C-SB-5.0	12E187	SO	2012-05-23	FIELD
	TB-052312	12E187	WQ	2012-05-23	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB-052412	12E204	WQ	2012-05-24	FIELD
5C_DG	SL-672-SA5C-SB-0.0-0.5	12E204	SO	2012-05-24	FIELD
5C_DG	SL-672-SA5C-SB-4.0-5.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-672-SA5C-SB-5.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-677-SA5C-SB-0.0-0.5	12E204	SO	2012-05-24	FIELD
5C_DG	SL-677-SA5C-SB-4.0-5.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-677-SA5C-SB-5.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-694-SA5C-SB-0.0-0.5	12E204	SO	2012-05-24	FIELD
5C_DG	SL-694-SA5C-SB-10.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-694-SA5C-SB-4.0-5.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-694-SA5C-SB-5.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-694-SA5C-SB-9.0-10.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-704-SA5C-SB-0.0-0.5	12E204	SO	2012-05-24	FIELD
5C_DG	SL-704-SA5C-SB-10.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-704-SA5C-SB-4.0-5.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-704-SA5C-SB-5.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-704-SA5C-SB-9.0-10.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-705-SA5C-SB-0.0-0.5	12E204	SO	2012-05-24	FIELD
5C_DG	SL-705-SA5C-SB-10.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-705-SA5C-SB-4.0-5.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-705-SA5C-SB-5.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-705-SA5C-SB-9.0-10.0	12E204	SO	2012-05-24	FIELD
5C_DG	SL-739-SA5C-SB-9.0-10.0EX	12E204	SO	2012-05-24	FIELD
	TB-052412	12E204	WQ	2012-05-24	FIELD
5C_DG	SL-554-SA5C-SB-0.0-0.5	12E229	SO	2012-05-29	FIELD
5C_DG	SL-555-SA5C-SB-0.0-0.5	12E229	SO	2012-05-29	FIELD
5C_DG	SL-555-SA5C-SB-2.5-3.5	12E229	SO	2012-05-29	FIELD
5C_DG	SL-555-SA5C-SB-3.5	12E229	SO	2012-05-29	FIELD
5C_DG	SL-620-SA5C-SB-0.0-0.5	12E229	SO	2012-05-29	FIELD
5C_DG	SL-706-SA5C-SB-0.0-0.5	12E229	SO	2012-05-29	FIELD
5C_DG	SL-706-SA5C-SB-10.0	12E229	SO	2012-05-29	FIELD
5C_DG	SL-706-SA5C-SB-4.0-5.0	12E229	SO	2012-05-29	FIELD
5C_DG	SL-706-SA5C-SB-5.0	12E229	SO	2012-05-29	FIELD
5C_DG	SL-706-SA5C-SB-9.0-10.0	12E229	SO	2012-05-29	FIELD
5C_DG	SL-723-SA5C-SB-0.0-0.5	12E229	SO	2012-05-29	FIELD
5C_DG	SL-723-SA5C-SB-10.0	12E229	SO	2012-05-29	FIELD
5C_DG	SL-723-SA5C-SB-4.0-5.0	12E229	SO	2012-05-29	FIELD
5C_DG	SL-723-SA5C-SB-5.0	12E229	SO	2012-05-29	FIELD
5C_DG	SL-723-SA5C-SB-9.0-10.0	12E229	SO	2012-05-29	FIELD
5C_DG	SL-724-SA5C-SB-0.0-0.5	12E229	SO	2012-05-29	FIELD
5C_DG	SL-724-SA5C-SB-10.0	12E229	SO	2012-05-29	FIELD
5C_DG	SL-724-SA5C-SB-4.0-5.0	12E229	SO	2012-05-29	FIELD
5C_DG	SL-724-SA5C-SB-5.0	12E229	SO	2012-05-29	FIELD
5C_DG	SL-724-SA5C-SB-9.0-10.0	12E229	SO	2012-05-29	FIELD
5C_DG	SL-750-SA5C-SB-0.0-0.5	12E229	SO	2012-05-29	FIELD
5C_DG	SL-750-SA5C-SB-5.5-6.5	12E229	SO	2012-05-29	FIELD
5C_DG	SL-750-SA5C-SB-6.5	12E229	SO	2012-05-29	FIELD
	TB-052912	12E229	WQ	2012-05-29	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB-053012	12E244	WQ	2012-05-30	FIELD
5C_DG	SL-544-SA5C-SB-0.0-0.5	12E244	SO	2012-05-30	FIELD
5C_DG	SL-544-SA5C-SB-5.0-6.0	12E244	SO	2012-05-30	FIELD
5C_DG	SL-544-SA5C-SB-6.0	12E244	SO	2012-05-30	FIELD
5C_DG	SL-550-SA5C-SB-0.0-0.5	12E244	SO	2012-05-30	FIELD
5C_DG	SL-560-SA5C-SB-0.0-0.5	12E244	SO	2012-05-30	FIELD
5C_DG	SL-560-SA5C-SB-6.5-7.5	12E244	SO	2012-05-30	FIELD
5C_DG	SL-560-SA5C-SB-7.5	12E244	SO	2012-05-30	FIELD
5C_DG	SL-621-SA5C-SB-0.0-0.5	12E244	SO	2012-05-30	FIELD
5C_DG	SL-752-SA5C-SB-0.0-0.5	12E244	SO	2012-05-30	FIELD
	TB-053012	12E244	WQ	2012-05-30	FIELD
	EB-053112	12E267	WQ	2012-05-31	FIELD
5C_DG	SL-608-SA5C-SB-2.0-3.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-608-SA5C-SB-3.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-609-SA5C-SB-3.0-4.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-609-SA5C-SB-4.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-610-SA5C-SB-0.0-0.5	12E267	SO	2012-05-31	FIELD
5C_DG	SL-611-SA5C-SB-0.0-0.5	12E267	SO	2012-05-31	FIELD
5C_DG	SL-611-SA5C-SB-5.0-6.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-611-SA5C-SB-6.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-612-SA5C-SB-4.0-5.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-612-SA5C-SB-5.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-612-SA5C-SB-7.0-8.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-612-SA5C-SB-8.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-613-SA5C-SB-4.0-5.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-613-SA5C-SB-7.5-8.5	12E267	SO	2012-05-31	FIELD
5C_DG	SL-614-SA5C-SB-0.0-0.5	12E267	SO	2012-05-31	FIELD
5C_DG	SL-614-SA5C-SB-3.0-4.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-618-SA5C-SB-0.0-1.0	12E267	SO	2012-05-30	FIELD
5C_DG	SL-618-SA5C-SB-1.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-619-SA5C-SB-0.0-0.5	12E267	SO	2012-05-30	FIELD
5C_DG	SL-912-SA5C-SB-4.0-5.0	12E267	SO	2012-05-31	FIELD
5C_DG	SL-912-SA5C-SB-5.0	12E267	SO	2012-05-31	FIELD
	TB-053112	12E267	WQ	2012-05-31	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB-060112	12F020	WQ	2012-06-01	FIELD
5C_DG	SL-536-SA5C-SB-10.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-536-SA5C-SB-4.0-5.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-536-SA5C-SB-5.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-536-SA5C-SB-9.0-10.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-558A-SA5C-SB-0.0-0.5	12F020	SO	2012-06-01	FIELD
5C_DG	SL-558A-SA5C-SB-2.0-3.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-558B-SA5C-SB-0.0-0.5	12F020	SO	2012-06-01	FIELD
5C_DG	SL-558B-SA5C-SB-2.0-3.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-558C-SA5C-SB-0.0-0.5	12F020	SO	2012-06-01	FIELD
5C_DG	SL-558C-SA5C-SB-2.0-3.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-558D-SA5C-SB-0.0-0.5	12F020	SO	2012-06-01	FIELD
5C_DG	SL-562-SA5C-SB-0.0-0.5	12F020	SO	2012-06-01	FIELD
5C_DG	SL-562-SA5C-SB-10.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-562-SA5C-SB-4.0-5.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-562-SA5C-SB-5.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-562-SA5C-SB-9.0-10.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-563-SA5C-SB-0.0-0.5	12F020	SO	2012-06-01	FIELD
5C_DG	SL-563-SA5C-SB-10.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-563-SA5C-SB-4.0-5.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-563-SA5C-SB-5.0	12F020	SO	2012-06-01	FIELD
5C_DG	SL-563-SA5C-SB-9.0-10.0	12F020	SO	2012-06-01	FIELD
	TB-060112	12F020	WQ	2012-06-01	FIELD
5C_DG	SL-564-SA5C-SB-0.0-0.5	12F029	SO	2012-06-04	FIELD
5C_DG	SL-564-SA5C-SB-4.0-5.0	12F029	SO	2012-06-04	FIELD
5C_DG	SL-564-SA5C-SB-9.0-10.0	12F029	SO	2012-06-04	FIELD
5C_DG	SL-565-SA5C-SB-0.0-0.5	12F029	SO	2012-06-04	FIELD
5C_DG	SL-565-SA5C-SB-4.0-5.0	12F029	SO	2012-06-04	FIELD
5C_DG	SL-565-SA5C-SB-9.0-10.0	12F029	SO	2012-06-04	FIELD
5C_DG	SL-566-SA5C-SB-4.0-5.0	12F029	SO	2012-06-04	FIELD
5C_DG	SL-566-SA5C-SB-9.0-10.0	12F029	SO	2012-06-04	FIELD
5C_DG	SL-573-SA5C-SB-0.0-0.5	12F029	SO	2012-06-04	FIELD
5C_DG	SL-573-SA5C-SB-4.0-5.0	12F029	SO	2012-06-04	FIELD
5C_DG	SL-573-SA5C-SB-9.0-10.0	12F029	SO	2012-06-04	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	FB-060512	12F037	WQ	2012-06-05	FIELD
5C_DG	SL-539-SA5C-SB-0.0-0.5	12F037	SO	2012-06-05	FIELD
5C_DG	SL-539-SA5C-SB-6.0-7.0	12F037	SO	2012-06-05	FIELD
5C_DG	SL-539-SA5C-SB-7.0	12F037	SO	2012-06-05	FIELD
5C_DG	SL-543-SA5C-SB-0.0-0.5	12F037	SO	2012-06-05	FIELD
5C_DG	SL-543-SA5C-SB-3.5-4.5	12F037	SO	2012-06-05	FIELD
5C_DG	SL-543-SA5C-SB-4.5	12F037	SO	2012-06-05	FIELD
5C_DG	SL-545-SA5C-SB-0.0-0.5	12F037	SO	2012-06-04	FIELD
5C_DG	SL-545-SA5C-SB-10.0	12F037	SO	2012-06-04	FIELD
5C_DG	SL-545-SA5C-SB-4.0-5.0	12F037	SO	2012-06-04	FIELD
5C_DG	SL-545-SA5C-SB-5.0	12F037	SO	2012-06-04	FIELD
5C_DG	SL-545-SA5C-SB-9.0-10.0	12F037	SO	2012-06-04	FIELD
5C_DG	SL-551-SA5C-SB-0.0-0.5	12F037	SO	2012-06-05	FIELD
5C_DG	SL-551-SA5C-SB-4.0-5.0	12F037	SO	2012-06-05	FIELD
5C_DG	SL-551-SA5C-SB-5.0	12F037	SO	2012-06-05	FIELD
5C_DG	SL-552-SA5C-SB-0.0-0.5	12F037	SO	2012-06-05	FIELD
5C_DG	SL-561-SA5C-SB-0.0-0.5	12F037	SO	2012-06-05	FIELD
5C_DG	SL-561-SA5C-SB-5.5-6.5	12F037	SO	2012-06-05	FIELD
5C_DG	SL-561-SA5C-SB-6.5	12F037	SO	2012-06-05	FIELD
5C_DG	SL-615-SA5C-SB-10.0	12F037	SO	2012-06-05	FIELD
5C_DG	SL-615-SA5C-SB-4.0-5.0	12F037	SO	2012-06-05	FIELD
5C_DG	SL-615-SA5C-SB-5.0	12F037	SO	2012-06-05	FIELD
5C_DG	SL-615-SA5C-SB-9.0-10.0	12F037	SO	2012-06-05	FIELD
	TB-060512	12F037	WQ	2012-06-05	FIELD
5C_DG	SL-546-SA5C-SB-0.0-0.5	12F044	SO	2012-06-06	FIELD
5C_DG	SL-546-SA5C-SB-10.0	12F044	SO	2012-06-06	FIELD
5C_DG	SL-546-SA5C-SB-4.0-5.0	12F044	SO	2012-06-06	FIELD
5C_DG	SL-546-SA5C-SB-5.0	12F044	SO	2012-06-06	FIELD
5C_DG	SL-546-SA5C-SB-9.0-10.0	12F044	SO	2012-06-06	FIELD
5C_DG	SL-567-SA5C-SB-0.0-0.5	12F044	SO	2012-06-06	FIELD
5C_DG	SL-567-SA5C-SB-3.0-4.0	12F044	SO	2012-06-06	FIELD
5C_DG	SL-568-SA5C-SB-0.0-0.5	12F044	SO	2012-06-06	FIELD
5C_DG	SL-568-SA5C-SB-4.0-5.0	12F044	SO	2012-06-06	FIELD
5C_DG	SL-568-SA5C-SB-9.0-10.0	12F044	SO	2012-06-06	FIELD
5C_DG	SL-636-SA5C-SB-0.0-0.5	12F044	SO	2012-06-06	FIELD
5C_DG	SL-636-SA5C-SB-2.0-3.0	12F044	SO	2012-06-06	FIELD
5C_DG	SL-638-SA5C-SB-0.0-0.5	12F044	SO	2012-06-06	FIELD
5C_DG	SL-638-SA5C-SB-2.0-3.0	12F044	SO	2012-06-06	FIELD
5C_DG	SL-846-SA5C-SB-4.0-5.0	12F044	SO	2012-06-06	FIELD
5C_DG	SL-846-SA5C-SB-5.0	12F044	SO	2012-06-06	FIELD
	TB-060612	12F044	WQ	2012-06-06	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB1-060712	12F051	WQ	2012-06-07	FIELD
	EB2-060712	12F051	WQ	2012-06-07	FIELD
5C_DG	SL-537-SA5C-SB-0.0-0.5	12F051	SO	2012-06-07	FIELD
5C_DG	SL-537-SA5C-SB-10.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-537-SA5C-SB-4.0-5.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-537-SA5C-SB-5.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-537-SA5C-SB-9.0-10.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-547-SA5C-SB-10.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-547-SA5C-SB-4.0-5.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-547-SA5C-SB-5.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-547-SA5C-SB-9.0-10.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-548-SA5C-SB-10.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-548-SA5C-SB-4.0-5.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-548-SA5C-SB-5.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-548-SA5C-SB-9.0-10.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-559-SA5C-SB-0.0-0.5	12F051	SO	2012-06-07	FIELD
5C_DG	SL-559-SA5C-SB-2.0-3.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-559-SA5C-SB-3.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-559-SA5C-SB-7.0-8.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-559-SA5C-SB-8.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-571-SA5C-SB-10.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-571-SA5C-SB-4.0-5.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-571-SA5C-SB-5.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-571-SA5C-SB-9.0-10.0	12F051	SO	2012-06-07	FIELD
5C_DG	SL-637-SA5C-SB-0.0-0.5	12F051	SO	2012-06-06	FIELD
5C_DG	SL-637-SA5C-SB-2.0-3.0	12F051	SO	2012-06-06	FIELD
5C_DG	SL-639-SA5C-SB-0.0-0.5	12F051	SO	2012-06-06	FIELD
	TB-060712	12F051	WQ	2012-06-07	FIELD
5C_DG	SL-507-SA5C-SB-2.5-3.5	12F071	SO	2012-06-11	FIELD
5C_DG	SL-508-SA5C-SB-4.0-5.0	12F071	SO	2012-06-11	FIELD
5C_DG	SL-508-SA5C-SB-6.5-7.5	12F071	SO	2012-06-11	FIELD
5C_DG	SL-509-SA5C-SB-4.0-5.0	12F071	SO	2012-06-11	FIELD
5C_DG	SL-509-SA5C-SB-9.0-10.0	12F071	SO	2012-06-11	FIELD
5C_DG	SL-518-SA5C-SB-4.0-5.0	12F071	SO	2012-06-11	FIELD
5C_DG	SL-518-SA5C-SB-9.0-10.0	12F071	SO	2012-06-11	FIELD
5C_DG	SL-520-SA5C-SB-6.5-7.5	12F071	SO	2012-06-11	FIELD
5C_DG	SL-521-SA5C-SB-0.0-0.5	12F071	SO	2012-06-11	FIELD
5C_DG	SL-521-SA5C-SB-4.0-5.0	12F071	SO	2012-06-11	FIELD
5C_DG	SL-521-SA5C-SB-9.0-10.0	12F071	SO	2012-06-11	FIELD
5C_DG	SL-574-SA5C-SB-4.0-5.0	12F071	SO	2012-06-11	FIELD
5C_DG	SL-574-SA5C-SB-9.0-10.0	12F071	SO	2012-06-11	FIELD
5C_DG	SL-809-SA5C-SB-4.0-5.0	12F071	SO	2012-06-11	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5C_DG	SL-687-SA5C-SB-4.0-5.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-687-SA5C-SB-5.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-688-SA5C-SB-10.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-688-SA5C-SB-4.0-5.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-688-SA5C-SB-5.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-688-SA5C-SB-9.0-10.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-689-SA5C-SB-4.0-5.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-689-SA5C-SB-5.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-689-SA5C-SB-7.5-8.5	12F074	SO	2012-06-12	FIELD
5C_DG	SL-689-SA5C-SB-8.5	12F074	SO	2012-06-12	FIELD
5C_DG	SL-690-SA5C-SB-3.5-4.5	12F074	SO	2012-06-12	FIELD
5C_DG	SL-690-SA5C-SB-4.5	12F074	SO	2012-06-12	FIELD
5C_DG	SL-692-SA5C-SB-5.0-6.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-692-SA5C-SB-6.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-693-SA5C-SB-10.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-693-SA5C-SB-4.0-5.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-693-SA5C-SB-5.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-693-SA5C-SB-9.0-10.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-743-SA5C-SB-1.0-2.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-743-SA5C-SB-10.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-743-SA5C-SB-14.0-15.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-743-SA5C-SB-15.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-743-SA5C-SB-2.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-743-SA5C-SB-4.0-5.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-743-SA5C-SB-5.0	12F074	SO	2012-06-12	FIELD
5C_DG	SL-743-SA5C-SB-9.0-10.0	12F074	SO	2012-06-12	FIELD
	TB-061212	12F074	WQ	2012-06-12	FIELD
5C_DG	SL-683-SA5C-SB-4.0-5.0	12F093	SO	2012-06-13	FIELD
5C_DG	SL-683-SA5C-SB-5.0	12F093	SO	2012-06-13	FIELD
5C_DG	SL-683-SA5C-SB-7.0-8.0	12F093	SO	2012-06-13	FIELD
5C_DG	SL-683-SA5C-SB-8.0	12F093	SO	2012-06-13	FIELD
5C_DG	SL-684-SA5C-SB-2.5-3.5	12F093	SO	2012-06-13	FIELD
5C_DG	SL-684-SA5C-SB-3.5	12F093	SO	2012-06-13	FIELD
5C_DG	SL-685-SA5C-SB-4.0-5.0	12F093	SO	2012-06-13	FIELD
5C_DG	SL-685-SA5C-SB-5.0	12F093	SO	2012-06-13	FIELD
5C_DG	SL-685-SA5C-SB-7.0-8.0	12F093	SO	2012-06-13	FIELD
5C_DG	SL-685-SA5C-SB-8.0	12F093	SO	2012-06-13	FIELD
5C_DG	SL-717-SA5C-SB-6.0-7.0	12F093	SO	2012-06-13	FIELD
5C_DG	SL-718-SA5C-SB-4.0-5.0	12F093	SO	2012-06-13	FIELD
5C_DG	SL-718-SA5C-SB-8.0-9.0	12F093	SO	2012-06-13	FIELD
5C_DG	SL-720-SA5C-SB-4.5-5.5	12F093	SO	2012-06-13	FIELD
5C_DG	SL-720-SA5C-SB-5.5	12F093	SO	2012-06-13	FIELD
5C_DG	SL-722-SA5C-SB-6.0-7.0	12F093	SO	2012-06-13	FIELD
5C_DG	SL-722-SA5C-SB-7.0	12F093	SO	2012-06-13	FIELD
	TB-061312	12F093	WQ	2012-06-13	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB-061412	12F102	WQ	2012-06-14	FIELD
5C_DG	SL-707-SA5C-SB-13.0-14.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-707-SA5C-SB-14.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-709-SA5C-SB-4.0-5.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-709-SA5C-SB-9.0-10.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-711-SA5C-SB-10.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-711-SA5C-SB-4.0-5.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-711-SA5C-SB-5.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-711-SA5C-SB-9.0-10.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-712-SA5C-SB-10.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-712-SA5C-SB-4.0-5.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-712-SA5C-SB-5.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-712-SA5C-SB-9.0-10.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-713-SA5C-SB-6.0-7.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-713-SA5C-SB-7.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-715-SA5C-SB-6.0-7.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-715-SA5C-SB-7.0	12F102	SO	2012-06-14	FIELD
5C_DG	SL-716-SA5C-SB-5.5-6.5	12F102	SO	2012-06-13	FIELD
5C_DG	SL-719-SA5C-SB-6.0-7.0	12F102	SO	2012-06-14	FIELD
	TB-061412	12F102	WQ	2012-06-14	FIELD
5C_DG	SL-1000-SA5C-SB-4.0-5.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-1000-SA5C-SB-5.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-696-SA5C-SB-1.0-2.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-696-SA5C-SB-4.0-5.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-696-SA5C-SB-9.0-10.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-699-SA5C-SB-10.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-699-SA5C-SB-4.0-5.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-699-SA5C-SB-5.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-699-SA5C-SB-9.0-10.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-700-SA5C-SB-10.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-700-SA5C-SB-4.0-5.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-700-SA5C-SB-5.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-700-SA5C-SB-9.0-10.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-701-SA5C-SB-10.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-701-SA5C-SB-4.0-5.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-701-SA5C-SB-5.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-701-SA5C-SB-9.0-10.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-702-SA5C-SB-4.0-5.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-702-SA5C-SB-9.0-10.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-703-SA5C-SB-10.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-703-SA5C-SB-4.0-5.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-703-SA5C-SB-5.0	12F120	SO	2012-06-18	FIELD
5C_DG	SL-703-SA5C-SB-9.0-10.0	12F120	SO	2012-06-18	FIELD
	TB-061812	12F120	WQ	2012-06-18	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5C_DG	SL-524-SA5C-SB-4.0-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-524-SA5C-SB-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-525-SA5C-SB-10.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-525-SA5C-SB-4.0-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-525-SA5C-SB-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-525-SA5C-SB-9.0-10.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-526-SA5C-SB-10.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-526-SA5C-SB-4.0-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-526-SA5C-SB-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-526-SA5C-SB-9.0-10.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-527-SA5C-SB-4.0-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-527-SA5C-SB-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-528-SA5C-SB-4.0-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-528-SA5C-SB-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-572-SA5C-SB-0.0-0.5	12F132	SO	2012-06-19	FIELD
5C_DG	SL-572-SA5C-SB-4.0-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-572-SA5C-SB-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-643-SA5C-SB-1.0-2.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-643-SA5C-SB-2.0-3.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-670-SA5C-SB-0.0-0.5	12F132	SO	2012-06-19	FIELD
5C_DG	SL-670-SA5C-SB-4.0-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-670-SA5C-SB-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-828-SA5C-SB-4.0-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-828-SA5C-SB-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-872-SA5C-SB-4.0-5.0	12F132	SO	2012-06-19	FIELD
5C_DG	SL-872-SA5C-SB-5.0	12F132	SO	2012-06-19	FIELD
	TB-061912	12F132	WQ	2012-06-19	FIELD
	FB-062012	12F146	WQ	2012-06-20	FIELD
5C_DG	SL-587-SA5C-SB-4.0-5.0	12F146	SO	2012-06-20	FIELD
5C_DG	SL-587-SA5C-SB-5.0	12F146	SO	2012-06-20	FIELD
5C_DG	SL-587-SA5C-SB-8.5-9.5	12F146	SO	2012-06-20	FIELD
5C_DG	SL-587-SA5C-SB-9.5	12F146	SO	2012-06-20	FIELD
5C_DG	SL-604-SA5C-SB-4.0-5.0	12F146	SO	2012-06-20	FIELD
5C_DG	SL-604-SA5C-SB-5.0	12F146	SO	2012-06-20	FIELD
5C_DG	SL-628-SA5C-SB-10.5	12F146	SO	2012-06-20	FIELD
5C_DG	SL-628-SA5C-SB-11.5-12.5	12F146	SO	2012-06-20	FIELD
5C_DG	SL-628-SA5C-SB-12.5	12F146	SO	2012-06-20	FIELD
5C_DG	SL-630-SA5C-SB-8.0-9.0	12F146	SO	2012-06-20	FIELD
5C_DG	SL-630-SA5C-SB-9.0	12F146	SO	2012-06-20	FIELD
5C_DG	SL-887-SA5C-SB-4.0-5.0	12F146	SO	2012-06-20	FIELD
5C_DG	SL-887-SA5C-SB-5.0	12F146	SO	2012-06-20	FIELD
	TB-062012	12F146	WQ	2012-06-20	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB1-062112	12F162	WQ	2012-06-21	FIELD
	EB2-062112	12F162	WQ	2012-06-21	FIELD
5C_DG	SL-584-SA5C-SB-4.0-5.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-584-SA5C-SB-5.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-585-SA5C-SB-4.0-5.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-585-SA5C-SB-5.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-594-SA5C-SB-0.0-0.5	12F162	SO	2012-06-21	FIELD
5C_DG	SL-594-SA5C-SB-5.0-6.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-594-SA5C-SB-6.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-594-SA5C-SB-9.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-594-SA5C-SB-9.0-10.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-599-SA5C-SB-4.0-5.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-599-SA5C-SB-5.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-600-SA5C-SB-4.0-5.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-600-SA5C-SB-5.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-602-SA5C-SB-4.0-5.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-602-SA5C-SB-5.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-603-SA5C-SB-4.0-5.0	12F162	SO	2012-06-21	FIELD
5C_DG	SL-603-SA5C-SB-5.0	12F162	SO	2012-06-21	FIELD
	TB-062112	12F162	WQ	2012-06-21	FIELD
5C_DG	SL-515-SA5C-SB-10.0	12F182	SO	2012-06-25	FIELD
5C_DG	SL-515-SA5C-SB-4.0-5.0	12F182	SO	2012-06-25	FIELD
5C_DG	SL-515-SA5C-SB-5.0	12F182	SO	2012-06-25	FIELD
5C_DG	SL-515-SA5C-SB-9.0-10.0	12F182	SO	2012-06-25	FIELD
5C_DG	SL-575-SA5C-SB-4.0-5.0	12F182	SO	2012-06-25	FIELD
	TB-062512	12F182	WQ	2012-06-25	FIELD
5C_DG	SL-581-SA5C-SB-4.0-5.0	12F197	SO	2012-06-26	FIELD
5C_DG	SL-581-SA5C-SB-5.0	12F197	SO	2012-06-26	FIELD
5C_DG	SL-747-SA5C-SB-2.5-3.5	12F197	SO	2012-06-26	FIELD
5C_DG	SL-747-SA5C-SB-3.5	12F197	SO	2012-06-26	FIELD
5C_DG	SL-881-SA5C-SB-4.0-5.0	12F197	SO	2012-06-26	FIELD
5C_DG	SL-881-SA5C-SB-5.0	12F197	SO	2012-06-26	FIELD
	TB-062612	12F197	WQ	2012-06-26	FIELD
5C_DG	SL-578-SA5C-SB-4.0-5.0	12F215	SO	2012-06-27	FIELD
	EB-062812	12F232	WQ	2012-06-28	FIELD
5C_DG	SL-501-SA5C-SB-4.0-5.0	12F232	SO	2012-06-28	FIELD
5C_DG	SL-502-SA5C-SB-4.5-5.5	12F232	SO	2012-06-28	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5C_DG	SL-522-SA5C-SB-4.0-5.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-522-SA5C-SB-9.0-10.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-523-SA5C-SB-4.0-5.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-523-SA5C-SB-9.0-10.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-530-SA5C-SB-4.0-5.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-530-SA5C-SB-9.0-10.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-531-SA5C-SB-4.0-5.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-531-SA5C-SB-9.0-10.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-533-SA5C-SB-4.0-5.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-533-SA5C-SB-9.0-10.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-623-SA5C-SB-4.0-5.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-623-SA5C-SB-9.0-10.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-754-SA5C-SB-0.0-0.5	12G030	SO	2012-07-09	FIELD
5C_DG	SL-754-SA5C-SB-4.0-5.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-754-SA5C-SB-6.5-7.5	12G030	SO	2012-07-09	FIELD
5C_DG	SL-822-SA5C-SB-4.0-5.0	12G030	SO	2012-07-09	FIELD
5C_DG	SL-640-SA5C-SB-10.0-11.0	12G048	SO	2012-07-10	FIELD
5C_DG	SL-640-SA5C-SB-15.0-16.0	12G048	SO	2012-07-10	FIELD
5C_DG	SL-640-SA5C-SB-19.0-20.0	12G048	SO	2012-07-10	FIELD
5C_DG	SL-640-SA5C-SB-5.0-6.0	12G048	SO	2012-07-10	FIELD
5C_DG	SL-641-SA5C-SB-14.0-15.0	12G048	SO	2012-07-10	FIELD
5C_DG	SL-641-SA5C-SB-18.5-19.5	12G048	SO	2012-07-10	FIELD
5C_DG	SL-641-SA5C-SB-4.0-5.0	12G048	SO	2012-07-10	FIELD
5C_DG	SL-641-SA5C-SB-9.0-10.0	12G048	SO	2012-07-10	FIELD
5C_DG	SL-642-SA5C-SB-14.0-15.0	12G048	SO	2012-07-10	FIELD
5C_DG	SL-642-SA5C-SB-17.5-18.5	12G048	SO	2012-07-10	FIELD
5C_DG	SL-642-SA5C-SB-4.0-5.0	12G048	SO	2012-07-10	FIELD
5C_DG	SL-642-SA5C-SB-9.0-10.0	12G048	SO	2012-07-10	FIELD
5C_DG	SL-755-SA5C-SB-0.0-0.5	12G048	SO	2012-07-10	FIELD
5C_DG	SL-755-SA5C-SB-4.0-5.0	12G048	SO	2012-07-10	FIELD
5C_DG	SL-755-SA5C-SB-4.5	12G048	SO	2012-07-10	FIELD
5C_DG	SL-755-SA5C-SB-5.5-6.5	12G048	SO	2012-07-10	FIELD
5C_DG	SL-755-SA5C-SB-6.0	12G048	SO	2012-07-10	FIELD
	TB-071012	12G048	WQ	2012-07-10	FIELD
	FB-071112	12G064	WQ	2012-07-11	FIELD
5C_DG	SL-586-SA5C-SB-4.0-5.0	12G064	SO	2012-07-11	FIELD
5C_DG	SL-586-SA5C-SB-4.5	12G064	SO	2012-07-11	FIELD
5C_DG	SL-586-SA5C-SB-9.0-10.0	12G064	SO	2012-07-11	FIELD
5C_DG	SL-586-SA5C-SB-9.5	12G064	SO	2012-07-11	FIELD
5C_DG	SL-589-SA5C-SB-4.0-5.0	12G064	SO	2012-07-11	FIELD
5C_DG	SL-591-SA5C-SB-4.0-5.0	12G064	SO	2012-07-11	FIELD
5C_DG	SL-592-SA5C-SB-5.0-6.0	12G064	SO	2012-07-11	FIELD
5C_DG	SL-607-SA5C-SB-0.0-0.5	12G064	SO	2012-07-11	FIELD
5C_DG	SL-607-SA5C-SB-4.0-5.0	12G064	SO	2012-07-11	FIELD
5C_DG	SL-607-SA5C-SB-4.5	12G064	SO	2012-07-11	FIELD
5C_DG	SL-607-SA5C-SB-9.0-10.0	12G064	SO	2012-07-11	FIELD
5C_DG	SL-607-SA5C-SB-9.5	12G064	SO	2012-07-11	FIELD
	EB-071212	12G081	WQ	2012-07-12	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5C_DG	SL-583-SA5C-SB-0.0-0.5	12G199	SO	2012-07-24	FIELD
5C_DG	SL-583-SA5C-SB-4.0-5.0	12G199	SO	2012-07-24	FIELD
5C_DG	SL-741-SA5C-SB-0.0-0.5	12G199	SO	2012-07-24	FIELD
5C_DG	SL-741-SA5C-SB-4.0-5.0	12G199	SO	2012-07-24	FIELD
5C_DG	SL-741-SA5C-SB-4.5	12G199	SO	2012-07-24	FIELD
5C_DG	SL-741-SA5C-SB-9.0-10.0	12G199	SO	2012-07-24	FIELD
5C_DG	SL-741-SA5C-SB-9.5	12G199	SO	2012-07-24	FIELD
5C_DG	SL-742-SA5C-SB-0.0-0.5	12G199	SO	2012-07-24	FIELD
5C_DG	SL-514-SA5C-SB-0.0-0.5	PH001	SO	2012-04-17	FIELD
5C_DG	SL-578-SA5C-SB-0.0-0.5	PH001	SO	2012-04-17	FIELD
5C_DG	SL-679-SA5C-SB-0.0-0.5	PH001	SO	2012-04-12	FIELD
5C_DG	SL-680-SA5C-SB-0.0-0.5	PH001	SO	2012-04-17	FIELD
5C_DG	SL-681-SA5C-SB-0.0-0.5	PH001	SO	2012-04-12	FIELD
5C_DG	SL-683-SA5C-SB-0.0-0.5	PH001	SO	2012-04-12	FIELD
5C_DG	SL-684-SA5C-SB-0.0-0.5	PH001	SO	2012-04-12	FIELD
5C_DG	SL-685-SA5C-SB-0.0-0.5	PH001	SO	2012-04-12	FIELD
5C_DG	SL-686-SA5C-SB-0.0-0.5	PH001	SO	2012-04-12	FIELD
5C_DG	SL-687-SA5C-SB-0.0-0.5	PH001	SO	2012-04-16	FIELD
5C_DG	SL-688-SA5C-SB-0.0-0.5	PH001	SO	2012-04-16	FIELD
5C_DG	SL-689-SA5C-SB-0.0-0.5	PH001	SO	2012-04-16	FIELD
5C_DG	SL-690-SA5C-SB-0.0-0.5	PH001	SO	2012-04-16	FIELD
5C_DG	SL-691-SA5C-SB-0.0-0.5	PH001	SO	2012-04-16	FIELD
5C_DG	SL-692-SA5C-SB-0.0-0.5	PH001	SO	2012-04-16	FIELD
5C_DG	SL-693-SA5C-SB-0.0-0.5	PH001	SO	2012-04-16	FIELD
5C_DG	SL-735-SA5C-SB-0.0-0.5	PH001	SO	2012-04-12	FIELD
5C_DG	SL-737-SA5C-SB-0.0-0.5	PH001	SO	2012-04-12	FIELD
5C_DG	SL-814-SA5C-SB-0.0-0.5	PH001	SO	2012-04-17	FIELD
	EB-041912	PH002	WQ	2012-04-19	FIELD
5C_DG	SL-501-SA5C-SB-0.0-0.5	PH002	SO	2012-04-20	FIELD
5C_DG	SL-502-SA5C-SB-0.0-0.5	PH002	SO	2012-04-20	FIELD
5C_DG	SL-510-SA5C-SB-0.0-0.5	PH002	SO	2012-04-19	FIELD
5C_DG	SL-513-SA5C-SB-0.0-0.5	PH002	SO	2012-04-19	FIELD
5C_DG	SL-515-SA5C-SB-0.0-0.5	PH002	SO	2012-04-19	FIELD
5C_DG	SL-516-SA5C-SB-0.0-0.5	PH002	SO	2012-04-19	FIELD
5C_DG	SL-516-SA5C-SB-4.0-5.0	PH002	SO	2012-04-19	FIELD
5C_DG	SL-517-SA5C-SB-0.0-0.5	PH002	SO	2012-04-19	FIELD
5C_DG	SL-518-SA5C-SB-0.0-0.5	PH002	SO	2012-04-19	FIELD
5C_DG	SL-570-SA5C-SB-0.0-0.5	PH002	SO	2012-04-18	FIELD
5C_DG	SL-570-SA5C-SB-2.0-3.0	PH002	SO	2012-04-18	FIELD
5C_DG	SL-575-SA5C-SB-0.0-0.5	PH002	SO	2012-04-19	FIELD
5C_DG	SL-577-SA5C-SB-0.0-0.5	PH002	SO	2012-04-17	FIELD
5C_DG	SL-579-SA5C-SB-0.0-0.5	PH002	SO	2012-04-18	FIELD
5C_DG	SL-579-SA5C-SB-4.0-5.0	PH002	SO	2012-04-18	FIELD
5C_DG	SL-580-SA5C-SB-0.0-0.5	PH002	SO	2012-04-18	FIELD
5C_DG	SL-580-SA5C-SB-4.0-5.0	PH002	SO	2012-04-18	FIELD
5C_DG	SL-581-SA5C-SB-0.0-0.5	PH002	SO	2012-04-17	FIELD
5C_DG	SL-747-SA5C-SB-0.0-0.5	PH002	SO	2012-04-17	FIELD
5C_DG	SL-802-SA5C-SB-0.0-0.5	PH002	SO	2012-04-20	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB-042612	PH003	WQ	2012-04-26	FIELD
5C_DG	SL-507-SA5C-SB-0.0-0.5	PH003	SO	2012-04-20	FIELD
5C_DG	SL-508-SA5C-SB-0.0-0.5	PH003	SO	2012-04-20	FIELD
5C_DG	SL-509-SA5C-SB-0.0-0.5	PH003	SO	2012-04-20	FIELD
5C_DG	SL-512A-SA5C-SB-0.0-0.5	PH003	SO	2012-04-23	FIELD
5C_DG	SL-520-SA5C-SB-0.0-0.5	PH003	SO	2012-04-23	FIELD
5C_DG	SL-522-SA5C-SB-0.0-0.5	PH003	SO	2012-04-25	FIELD
5C_DG	SL-523-SA5C-SB-0.0-0.5	PH003	SO	2012-04-25	FIELD
5C_DG	SL-530-SA5C-SB-0.0-0.5	PH003	SO	2012-04-25	FIELD
5C_DG	SL-531-SA5C-SB-0.0-0.5	PH003	SO	2012-04-25	FIELD
5C_DG	SL-532-SA5C-SB-0.0-0.5	PH003	SO	2012-04-23	FIELD
5C_DG	SL-533-SA5C-SB-0.0-0.5	PH003	SO	2012-04-23	FIELD
5C_DG	SL-574-SA5C-SB-0.0-0.5	PH003	SO	2012-04-20	FIELD
5C_DG	SL-623-SA5C-SB-0.0-0.5	PH003	SO	2012-04-25	FIELD
5C_DG	SL-702-SA5C-SB-0.0-0.5	PH003	SO	2012-04-26	FIELD
5C_DG	SL-708-SA5C-SB-0.0-0.5	PH003	SO	2012-04-26	FIELD
5C_DG	SL-711-SA5C-SB-0.0-0.5	PH003	SO	2012-04-26	FIELD
5C_DG	SL-1022-SA5C-SB-0.0-0.5	PH004	SO	2012-05-01	FIELD
5C_DG	SL-587-SA5C-SB-0.0-0.5	PH004	SO	2012-05-02	FIELD
5C_DG	SL-591-SA5C-SB-0.0-0.5	PH004	SO	2012-05-02	FIELD
5C_DG	SL-599-SA5C-SB-0.0-0.5	PH004	SO	2012-05-02	FIELD
5C_DG	SL-600-SA5C-SB-0.0-0.5	PH004	SO	2012-05-02	FIELD
5C_DG	SL-712-SA5C-SB-0.0-0.5	PH004	SO	2012-04-30	FIELD
5C_DG	SL-713-SA5C-SB-0.0-0.5	PH004	SO	2012-04-30	FIELD
5C_DG	SL-715-SA5C-SB-0.0-0.5	PH004	SO	2012-04-30	FIELD
5C_DG	SL-716-SA5C-SB-0.0-0.5	PH004	SO	2012-05-02	FIELD
5C_DG	SL-717-SA5C-SB-0.0-0.5	PH004	SO	2012-05-02	FIELD
5C_DG	SL-718-SA5C-SB-0.0-0.5	PH004	SO	2012-05-02	FIELD
5C_DG	SL-719-SA5C-SB-0.0-0.5	PH004	SO	2012-05-02	FIELD
5C_DG	SL-720-SA5C-SB-0.0-0.5	PH004	SO	2012-04-30	FIELD
5C_DG	SL-722-SA5C-SB-0.0-0.5	PH004	SO	2012-05-01	FIELD
	EB-050312	PH005	WQ	2012-05-03	FIELD
5C_DG	SL-586-SA5C-SB-0.0-0.5	PH005	SO	2012-05-07	FIELD
5C_DG	SL-588-SA5C-SB-0.0-0.5	PH005	SO	2012-05-07	FIELD
5C_DG	SL-589-SA5C-SB-0.0-0.5	PH005	SO	2012-05-07	FIELD
5C_DG	SL-592-SA5C-SB-0.0-0.5	PH005	SO	2012-05-07	FIELD
5C_DG	SL-595-SA5C-SB-1.0-2.0	PH005	SO	2012-05-07	FIELD
5C_DG	SL-595-SA5C-SB-2.0-3.0	PH005	SO	2012-05-07	FIELD
5C_DG	SL-596-SA5C-SB-2.0-3.0	PH005	SO	2012-05-03	FIELD
5C_DG	SL-596-SA5C-SB-3.0-4.0	PH005	SO	2012-05-03	FIELD
5C_DG	SL-602-SA5C-SB-0.0-0.5	PH005	SO	2012-05-02	FIELD
5C_DG	SL-603-SA5C-SB-0.0-0.5	PH005	SO	2012-05-03	FIELD
5C_DG	SL-606-SA5C-SB-0.0-0.5	PH005	SO	2012-05-03	FIELD
5C_DG	SL-612-SA5C-SB-0.0-0.5	PH005	SO	2012-05-03	FIELD
5C_DG	SL-615-SA5C-SB-0.0-0.5	PH005	SO	2012-05-07	FIELD
5C_DG	SL-671-SA5C-SB-0.0-0.5	PH005	SO	2012-05-08	FIELD
5C_DG	SL-673-SA5C-SB-0.0-0.5	PH005	SO	2012-05-08	FIELD
5C_DG	SL-903-SA5C-SB-0.0-0.5	PH005	SO	2012-05-03	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB-051012	PH006	WQ	2012-05-10	FIELD
5C_DG	SL-512-SA5C-SB-0.0-0.5	PH006	SO	2012-05-10	FIELD
5C_DG	SL-512-SA5C-SB-4.0-5.0	PH006	SO	2012-05-10	FIELD
5C_DG	SL-512-SA5C-SB-6.0-7.0	PH006	SO	2012-05-10	FIELD
5C_DG	SL-513-SA5C-SB-4.0-5.0	PH006	SO	2012-05-10	FIELD
5C_DG	SL-542-SA5C-SB-0.0-0.5	PH006	SO	2012-05-09	FIELD
5C_DG	SL-542-SA5C-SB-1.0-2.0	PH006	SO	2012-05-09	FIELD
5C_DG	SL-566-SA5C-SB-0.0-0.5	PH006	SO	2012-05-08	FIELD
5C_DG	SL-613-SA5C-SB-0.0-0.5	PH006	SO	2012-05-09	FIELD
5C_DG	SL-812-SA5C-SB-0.0-0.5	PH006	SO	2012-05-10	FIELD
	EB1-051712	PH007	WQ	2012-05-17	FIELD
	EB2-051712	PH007	WQ	2012-05-17	FIELD
5C_DG	SL-513-SA5C-SB-9.0-10.0	PH007	SO	2012-05-14	FIELD
5C_DG	SL-514-SA5C-SB-4.0-5.0	PH007	SO	2012-05-14	FIELD
5C_DG	SL-514-SA5C-SB-9.0-10.0	PH007	SO	2012-05-14	FIELD
5C_DG	SL-686-SA5C-SB-4.0-5.0	PH007	SO	2012-05-17	FIELD
5C_DG	SL-686-SA5C-SB-9.0-10.0	PH007	SO	2012-05-17	FIELD
5C_DG	SL-735-SA5C-SB-4.0-5.0	PH007	SO	2012-05-17	FIELD
5C_DG	SL-735-SA5C-SB-9.0-10.0	PH007	SO	2012-05-17	FIELD
5C_DG	SL-737-SA5C-SB-4.0-5.0	PH007	SO	2012-05-17	FIELD
5C_DG	SL-737-SA5C-SB-9.0-10.0	PH007	SO	2012-05-17	FIELD
5C_DG	SL-738-SA5C-SB-0.0-0.5	PH007	SO	2012-05-17	FIELD
5C_DG	SL-738-SA5C-SB-4.0-5.0	PH007	SO	2012-05-17	FIELD
5C_DG	SL-738-SA5C-SB-9.0-10.0	PH007	SO	2012-05-17	FIELD
5C_DG	SL-739-SA5C-SB-0.0-0.5	PH007	SO	2012-05-17	FIELD
5C_DG	SL-739-SA5C-SB-4.0-5.0	PH007	SO	2012-05-17	FIELD
5C_DG	SL-739-SA5C-SB-9.0-10.0	PH007	SO	2012-05-17	FIELD
5C_DG	SL-1027-SA5C-SB-4.0-5.0	PH008	SO	2012-05-21	FIELD
5C_DG	SL-674-SA5C-SB-0.0-0.5	PH008	SO	2012-05-23	FIELD
5C_DG	SL-674-SA5C-SB-2.5-3.5	PH008	SO	2012-05-23	FIELD
5C_DG	SL-675-SA5C-SB-0.0-0.5	PH008	SO	2012-05-23	FIELD
5C_DG	SL-678-SA5C-SB-0.0-0.5	PH008	SO	2012-05-23	FIELD
5C_DG	SL-678-SA5C-SB-2.5-3.5	PH008	SO	2012-05-23	FIELD
5C_DG	SL-681-SA5C-SB-4.0-5.0	PH008	SO	2012-05-23	FIELD
5C_DG	SL-681-SA5C-SB-7.5-8.5	PH008	SO	2012-05-23	FIELD
5C_DG	SL-682-SA5C-SB-0.0-0.5	PH008	SO	2012-05-22	FIELD
5C_DG	SL-682-SA5C-SB-4.0-5.0	PH008	SO	2012-05-22	FIELD
5C_DG	SL-682-SA5C-SB-9.0-10.0	PH008	SO	2012-05-22	FIELD
5C_DG	SL-727-SA5C-SB-0.0-0.5	PH008	SO	2012-05-21	FIELD
5C_DG	SL-727-SA5C-SB-4.0-5.0	PH008	SO	2012-05-21	FIELD
5C_DG	SL-727-SA5C-SB-9.0-10.0	PH008	SO	2012-05-21	FIELD
5C_DG	SL-733-SA5C-SB-0.0-0.5	PH008	SO	2012-05-22	FIELD
5C_DG	SL-733-SA5C-SB-4.0-5.0	PH008	SO	2012-05-22	FIELD
5C_DG	SL-733-SA5C-SB-9.0-10.0	PH008	SO	2012-05-22	FIELD
5C_DG	SL-734-SA5C-SB-0.0-0.5	PH008	SO	2012-05-21	FIELD
5C_DG	SL-734-SA5C-SB-4.0-5.0	PH008	SO	2012-05-21	FIELD
5C_DG	SL-734-SA5C-SB-9.0-10.0	PH008	SO	2012-05-21	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB-052412	PH009	WQ	2012-05-24	FIELD
5C_DG	SL-671-SA5C-SB-2.0-3.0	PH009	SO	2012-05-23	FIELD
5C_DG	SL-672-SA5C-SB-0.0-0.5	PH009	SO	2012-05-24	FIELD
5C_DG	SL-672-SA5C-SB-4.0-5.0	PH009	SO	2012-05-24	FIELD
5C_DG	SL-676-SA5C-SB-0.0-0.5	PH009	SO	2012-05-23	FIELD
5C_DG	SL-676-SA5C-SB-4.0-5.0	PH009	SO	2012-05-23	FIELD
5C_DG	SL-677-SA5C-SB-0.0-0.5	PH009	SO	2012-05-24	FIELD
5C_DG	SL-677-SA5C-SB-4.0-5.0	PH009	SO	2012-05-24	FIELD
5C_DG	SL-694-SA5C-SB-0.0-0.5	PH009	SO	2012-05-24	FIELD
5C_DG	SL-694-SA5C-SB-4.0-5.0	PH009	SO	2012-05-24	FIELD
5C_DG	SL-694-SA5C-SB-9.0-10.0	PH009	SO	2012-05-24	FIELD
5C_DG	SL-704-SA5C-SB-0.0-0.5	PH009	SO	2012-05-24	FIELD
5C_DG	SL-704-SA5C-SB-4.0-5.0	PH009	SO	2012-05-24	FIELD
5C_DG	SL-704-SA5C-SB-9.0-10.0	PH009	SO	2012-05-24	FIELD
5C_DG	SL-705-SA5C-SB-0.0-0.5	PH009	SO	2012-05-24	FIELD
5C_DG	SL-705-SA5C-SB-4.0-5.0	PH009	SO	2012-05-24	FIELD
5C_DG	SL-705-SA5C-SB-9.0-10.0	PH009	SO	2012-05-24	FIELD
5C_DG	SL-976-SA5C-SB-4.0-5.0	PH009	SO	2012-05-23	FIELD
	EB-053012	PH010	WQ	2012-05-30	FIELD
	EB-053112	PH010	WQ	2012-05-31	FIELD
5C_DG	SL-611-SA5C-SB-0.0-0.5	PH010	SO	2012-05-31	FIELD
5C_DG	SL-611-SA5C-SB-5.0-6.0	PH010	SO	2012-05-31	FIELD
5C_DG	SL-612-SA5C-SB-4.0-5.0	PH010	SO	2012-05-31	FIELD
5C_DG	SL-612-SA5C-SB-7.0-8.0	PH010	SO	2012-05-31	FIELD
5C_DG	SL-613-SA5C-SB-4.0-5.0	PH010	SO	2012-05-31	FIELD
5C_DG	SL-613-SA5C-SB-7.5-8.5	PH010	SO	2012-05-31	FIELD
5C_DG	SL-614-SA5C-SB-0.0-0.5	PH010	SO	2012-05-31	FIELD
5C_DG	SL-614-SA5C-SB-3.0-4.0	PH010	SO	2012-05-31	FIELD
5C_DG	SL-620-SA5C-SB-0.0-0.5	PH010	SO	2012-05-29	FIELD
5C_DG	SL-621-SA5C-SB-0.0-0.5	PH010	SO	2012-05-30	FIELD
5C_DG	SL-723-SA5C-SB-0.0-0.5	PH010	SO	2012-05-29	FIELD
5C_DG	SL-723-SA5C-SB-4.0-5.0	PH010	SO	2012-05-29	FIELD
5C_DG	SL-723-SA5C-SB-9.0-10.0	PH010	SO	2012-05-29	FIELD
5C_DG	SL-724-SA5C-SB-0.0-0.5	PH010	SO	2012-05-29	FIELD
5C_DG	SL-724-SA5C-SB-4.0-5.0	PH010	SO	2012-05-29	FIELD
5C_DG	SL-724-SA5C-SB-9.0-10.0	PH010	SO	2012-05-29	FIELD
5C_DG	SL-750-SA5C-SB-0.0-0.5	PH010	SO	2012-05-29	FIELD
5C_DG	SL-750-SA5C-SB-5.5-6.5	PH010	SO	2012-05-29	FIELD
5C_DG	SL-752-SA5C-SB-0.0-0.5	PH010	SO	2012-05-30	FIELD
5C_DG	SL-912-SA5C-SB-4.0-5.0	PH010	SO	2012-05-31	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	FB-060512	PH011	WQ	2012-06-05	FIELD
5C_DG	SL-539-SA5C-SB-0.0-0.5	PH011	SO	2012-06-05	FIELD
5C_DG	SL-539-SA5C-SB-6.0-7.0	PH011	SO	2012-06-05	FIELD
5C_DG	SL-561-SA5C-SB-0.0-0.5	PH011	SO	2012-06-05	FIELD
5C_DG	SL-561-SA5C-SB-5.5-6.5	PH011	SO	2012-06-05	FIELD
5C_DG	SL-564-SA5C-SB-0.0-0.5	PH011	SO	2012-06-04	FIELD
5C_DG	SL-564-SA5C-SB-4.0-5.0	PH011	SO	2012-06-04	FIELD
5C_DG	SL-564-SA5C-SB-9.0-10.0	PH011	SO	2012-06-04	FIELD
5C_DG	SL-565-SA5C-SB-0.0-0.5	PH011	SO	2012-06-04	FIELD
5C_DG	SL-565-SA5C-SB-4.0-5.0	PH011	SO	2012-06-04	FIELD
5C_DG	SL-565-SA5C-SB-9.0-10.0	PH011	SO	2012-06-04	FIELD
5C_DG	SL-566-SA5C-SB-4.0-5.0	PH011	SO	2012-06-04	FIELD
5C_DG	SL-566-SA5C-SB-9.0-10.0	PH011	SO	2012-06-04	FIELD
5C_DG	SL-567-SA5C-SB-0.0-0.5	PH011	SO	2012-06-06	FIELD
5C_DG	SL-567-SA5C-SB-3.0-4.0	PH011	SO	2012-06-06	FIELD
5C_DG	SL-569-SA5C-SB-0.0-0.5	PH011	SO	2012-06-04	FIELD
5C_DG	SL-569-SA5C-SB-4.0-5.0	PH011	SO	2012-06-04	FIELD
5C_DG	SL-615-SA5C-SB-4.0-5.0	PH011	SO	2012-06-05	FIELD
5C_DG	SL-615-SA5C-SB-9.0-10.0	PH011	SO	2012-06-05	FIELD
	EB1-060712	PH012	WQ	2012-06-07	FIELD
5C_DG	SL-507-SA5C-SB-2.5-3.5	PH012	SO	2012-06-11	FIELD
5C_DG	SL-508-SA5C-SB-4.0-5.0	PH012	SO	2012-06-11	FIELD
5C_DG	SL-508-SA5C-SB-6.5-7.5	PH012	SO	2012-06-11	FIELD
5C_DG	SL-509-SA5C-SB-4.0-5.0	PH012	SO	2012-06-11	FIELD
5C_DG	SL-509-SA5C-SB-9.0-10.0	PH012	SO	2012-06-11	FIELD
5C_DG	SL-518-SA5C-SB-4.0-5.0	PH012	SO	2012-06-11	FIELD
5C_DG	SL-518-SA5C-SB-9.0-10.0	PH012	SO	2012-06-11	FIELD
5C_DG	SL-520-SA5C-SB-6.5-7.5	PH012	SO	2012-06-11	FIELD
5C_DG	SL-521-SA5C-SB-0.0-0.5	PH012	SO	2012-06-11	FIELD
5C_DG	SL-521-SA5C-SB-4.0-5.0	PH012	SO	2012-06-11	FIELD
5C_DG	SL-521-SA5C-SB-9.0-10.0	PH012	SO	2012-06-11	FIELD
5C_DG	SL-574-SA5C-SB-4.0-5.0	PH012	SO	2012-06-11	FIELD
5C_DG	SL-574-SA5C-SB-9.0-10.0	PH012	SO	2012-06-11	FIELD
5C_DG	SL-809-SA5C-SB-4.0-5.0	PH012	SO	2012-06-11	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB-061412	PH013	WQ	2012-06-14	FIELD
5C_DG	SL-683-SA5C-SB-4.0-5.0	PH013	SO	2012-06-13	FIELD
5C_DG	SL-683-SA5C-SB-7.0-8.0	PH013	SO	2012-06-13	FIELD
5C_DG	SL-684-SA5C-SB-2.5-3.5	PH013	SO	2012-06-13	FIELD
5C_DG	SL-685-SA5C-SB-4.0-5.0	PH013	SO	2012-06-13	FIELD
5C_DG	SL-685-SA5C-SB-7.0-8.0	PH013	SO	2012-06-13	FIELD
5C_DG	SL-687-SA5C-SB-4.0-5.0	PH013	SO	2012-06-12	FIELD
5C_DG	SL-688-SA5C-SB-4.0-5.0	PH013	SO	2012-06-12	FIELD
5C_DG	SL-688-SA5C-SB-9.0-10.0	PH013	SO	2012-06-12	FIELD
5C_DG	SL-689-SA5C-SB-4.0-5.0	PH013	SO	2012-06-12	FIELD
5C_DG	SL-689-SA5C-SB-7.5-8.5	PH013	SO	2012-06-12	FIELD
5C_DG	SL-690-SA5C-SB-3.5-4.5	PH013	SO	2012-06-12	FIELD
5C_DG	SL-692-SA5C-SB-5.0-6.0	PH013	SO	2012-06-12	FIELD
5C_DG	SL-693-SA5C-SB-4.0-5.0	PH013	SO	2012-06-12	FIELD
5C_DG	SL-693-SA5C-SB-9.0-10.0	PH013	SO	2012-06-12	FIELD
5C_DG	SL-716-SA5C-SB-5.5-6.5	PH013	SO	2012-06-13	FIELD
5C_DG	SL-717-SA5C-SB-6.0-7.0	PH013	SO	2012-06-13	FIELD
5C_DG	SL-718-SA5C-SB-4.0-5.0	PH013	SO	2012-06-13	FIELD
5C_DG	SL-718-SA5C-SB-8.0-9.0	PH013	SO	2012-06-13	FIELD
5C_DG	SL-720-SA5C-SB-4.5-5.5	PH013	SO	2012-06-13	FIELD
5C_DG	SL-722-SA5C-SB-6.0-7.0	PH013	SO	2012-06-13	FIELD
	FB-062012	PH014	WQ	2012-06-20	FIELD
5C_DG	SL-587-SA5C-SB-4.0-5.0	PH014	SO	2012-06-20	FIELD
5C_DG	SL-587-SA5C-SB-8.5-9.5	PH014	SO	2012-06-20	FIELD
5C_DG	SL-628-SA5C-SB-11.5-12.5	PH014	SO	2012-06-20	FIELD
5C_DG	SL-630-SA5C-SB-8.0-9.0	PH014	SO	2012-06-20	FIELD
5C_DG	SL-670-SA5C-SB-0.0-0.5	PH014	SO	2012-06-19	FIELD
5C_DG	SL-670-SA5C-SB-4.0-5.0	PH014	SO	2012-06-19	FIELD
5C_DG	SL-702-SA5C-SB-4.0-5.0	PH014	SO	2012-06-18	FIELD
5C_DG	SL-702-SA5C-SB-9.0-10.0	PH014	SO	2012-06-18	FIELD
5C_DG	SL-711-SA5C-SB-4.0-5.0	PH014	SO	2012-06-14	FIELD
5C_DG	SL-711-SA5C-SB-9.0-10.0	PH014	SO	2012-06-14	FIELD
5C_DG	SL-712-SA5C-SB-4.0-5.0	PH014	SO	2012-06-14	FIELD
5C_DG	SL-712-SA5C-SB-9.0-10.0	PH014	SO	2012-06-14	FIELD
5C_DG	SL-713-SA5C-SB-6.0-7.0	PH014	SO	2012-06-14	FIELD
5C_DG	SL-715-SA5C-SB-6.0-7.0	PH014	SO	2012-06-14	FIELD
5C_DG	SL-719-SA5C-SB-6.0-7.0	PH014	SO	2012-06-14	FIELD
5C_DG	SL-887-SA5C-SB-4.0-5.0	PH014	SO	2012-06-20	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
	EB-062812	PH015	WQ	2012-06-28	FIELD
	EB2-062112	PH015	WQ	2012-06-21	FIELD
5C_DG	SL-501-SA5C-SB-4.0-5.0	PH015	SO	2012-06-28	FIELD
5C_DG	SL-502-SA5C-SB-4.5-5.5	PH015	SO	2012-06-28	FIELD
5C_DG	SL-515-SA5C-SB-4.0-5.0	PH015	SO	2012-06-25	FIELD
5C_DG	SL-515-SA5C-SB-9.0-10.0	PH015	SO	2012-06-25	FIELD
5C_DG	SL-575-SA5C-SB-4.0-5.0	PH015	SO	2012-06-25	FIELD
5C_DG	SL-578-SA5C-SB-4.0-5.0	PH015	SO	2012-06-27	FIELD
5C_DG	SL-581-SA5C-SB-4.0-5.0	PH015	SO	2012-06-26	FIELD
5C_DG	SL-594-SA5C-SB-0.0-0.5	PH015	SO	2012-06-21	FIELD
5C_DG	SL-594-SA5C-SB-5.0-6.0	PH015	SO	2012-06-21	FIELD
5C_DG	SL-594-SA5C-SB-9.0-10.0	PH015	SO	2012-06-21	FIELD
5C_DG	SL-599-SA5C-SB-4.0-5.0	PH015	SO	2012-06-21	FIELD
5C_DG	SL-600-SA5C-SB-4.0-5.0	PH015	SO	2012-06-21	FIELD
5C_DG	SL-602-SA5C-SB-4.0-5.0	PH015	SO	2012-06-21	FIELD
5C_DG	SL-603-SA5C-SB-4.0-5.0	PH015	SO	2012-06-21	FIELD
5C_DG	SL-747-SA5C-SB-2.5-3.5	PH015	SO	2012-06-26	FIELD
5C_DG	SL-881-SA5C-SB-4.0-5.0	PH015	SO	2012-06-26	FIELD
5B_DG	SL-519-SA5B-SB-0.0-0.5	PH016	SO	2012-07-05	FIELD
5B_DG	SL-520-SA5B-SB-0.0-0.5	PH016	SO	2012-07-05	FIELD
5B_DG	SL-521-SA5B-SB-0.0-0.5	PH016	SO	2012-07-05	FIELD
5B_DG	SL-528-SA5B-SB-0.0-0.5	PH016	SO	2012-07-05	FIELD
5B_DG	SL-530-SA5B-SB-0.0-0.5	PH016	SO	2012-07-05	FIELD
5B_DG	SL-531-SA5B-SB-0.0-0.5	PH016	SO	2012-07-05	FIELD
5B_DG	SL-532-SA5B-SB-0.0-0.5	PH016	SO	2012-07-05	FIELD
5B_DG	SL-534-SA5B-SB-0.0-0.5	PH016	SO	2012-07-06	FIELD
5B_DG	SL-537-SA5B-SB-0.0-0.5	PH016	SO	2012-07-06	FIELD
5B_DG	SL-538-SA5B-SB-0.0-0.5	PH016	SO	2012-07-06	FIELD
5B_DG	SL-539-SA5B-SB-0.0-0.5	PH016	SO	2012-07-06	FIELD
5B_DG	SL-540-SA5B-SB-0.0-0.5	PH016	SO	2012-07-06	FIELD
5B_DG	SL-541-SA5B-SB-0.0-0.5	PH016	SO	2012-07-06	FIELD
5B_DG	SL-542-SA5B-SB-0.0-0.5	PH016	SO	2012-07-06	FIELD
5B_DG	SL-932-SA5B-SB-0.0-0.5	PH016	SO	2012-07-05	FIELD
	FB-071112	PH016	WQ	2012-07-11	FIELD
5C_DG	SL-586-SA5C-SB-4.0-5.0	PH016	SO	2012-07-11	FIELD
5C_DG	SL-586-SA5C-SB-9.0-10.0	PH016	SO	2012-07-11	FIELD
5C_DG	SL-588-SA5C-SB-4.0-5.0	PH016	SO	2012-07-11	FIELD
5C_DG	SL-588-SA5C-SB-9.0-10.0	PH016	SO	2012-07-11	FIELD
5C_DG	SL-589-SA5C-SB-4.0-5.0	PH016	SO	2012-07-11	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5C_DG	SL-522-SA5C-SB-4.0-5.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-522-SA5C-SB-9.0-10.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-523-SA5C-SB-4.0-5.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-523-SA5C-SB-9.0-10.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-530-SA5C-SB-4.0-5.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-530-SA5C-SB-9.0-10.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-531-SA5C-SB-4.0-5.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-531-SA5C-SB-9.0-10.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-533-SA5C-SB-4.0-5.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-533-SA5C-SB-9.0-10.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-623-SA5C-SB-4.0-5.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-623-SA5C-SB-9.0-10.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-640-SA5C-SB-5.0-6.0	PH017	SO	2012-07-10	FIELD
5C_DG	SL-754-SA5C-SB-0.0-0.5	PH017	SO	2012-07-09	FIELD
5C_DG	SL-754-SA5C-SB-4.0-5.0	PH017	SO	2012-07-09	FIELD
5C_DG	SL-754-SA5C-SB-6.5-7.5	PH017	SO	2012-07-09	FIELD
5C_DG	SL-755-SA5C-SB-0.0-0.5	PH017	SO	2012-07-10	FIELD
5C_DG	SL-755-SA5C-SB-4.0-5.0	PH017	SO	2012-07-10	FIELD
5C_DG	SL-755-SA5C-SB-5.5-6.5	PH017	SO	2012-07-10	FIELD
5C_DG	SL-822-SA5C-SB-4.0-5.0	PH017	SO	2012-07-09	FIELD
	EB-071212	PH018	WQ	2012-07-12	FIELD
5B_DG	SL-502-SA5B-SB-0.0-0.5	PH018	SO	2012-07-12	FIELD
5B_DG	SL-502-SA5B-SB-4.0-5.0	PH018	SO	2012-07-12	FIELD
5B_DG	SL-502-SA5B-SB-9.0-10.0	PH018	SO	2012-07-12	FIELD
5C_DG	SL-591-SA5C-SB-4.0-5.0	PH018	SO	2012-07-11	FIELD
5C_DG	SL-592-SA5C-SB-5.0-6.0	PH018	SO	2012-07-11	FIELD
5C_DG	SL-607-SA5C-SB-0.0-0.5	PH018	SO	2012-07-11	FIELD
5C_DG	SL-607-SA5C-SB-4.0-5.0	PH018	SO	2012-07-11	FIELD
5C_DG	SL-607-SA5C-SB-9.0-10.0	PH018	SO	2012-07-11	FIELD
5C_DG	SL-640-SA5C-SB-10.0-11.0	PH018	SO	2012-07-10	FIELD
5C_DG	SL-640-SA5C-SB-15.0-16.0	PH018	SO	2012-07-10	FIELD
5C_DG	SL-640-SA5C-SB-19.0-20.0	PH018	SO	2012-07-10	FIELD
5C_DG	SL-641-SA5C-SB-14.0-15.0	PH018	SO	2012-07-10	FIELD
5C_DG	SL-641-SA5C-SB-18.5-19.5	PH018	SO	2012-07-10	FIELD
5C_DG	SL-641-SA5C-SB-4.0-5.0	PH018	SO	2012-07-10	FIELD
5C_DG	SL-641-SA5C-SB-9.0-10.0	PH018	SO	2012-07-10	FIELD
5C_DG	SL-642-SA5C-SB-14.0-15.0	PH018	SO	2012-07-10	FIELD
5C_DG	SL-642-SA5C-SB-17.5-18.5	PH018	SO	2012-07-10	FIELD
5C_DG	SL-642-SA5C-SB-4.0-5.0	PH018	SO	2012-07-10	FIELD
5C_DG	SL-642-SA5C-SB-9.0-10.0	PH018	SO	2012-07-10	FIELD
5C_DG	SL-583-SA5C-SB-0.0-0.5	PH025	SO	2012-07-24	FIELD
5C_DG	SL-583-SA5C-SB-4.0-5.0	PH025	SO	2012-07-24	FIELD
5C_DG	SL-741-SA5C-SB-0.0-0.5	PH025	SO	2012-07-24	FIELD
5C_DG	SL-741-SA5C-SB-4.0-5.0	PH025	SO	2012-07-24	FIELD
5C_DG	SL-741-SA5C-SB-9.0-10.0	PH025	SO	2012-07-24	FIELD
5C_DG	SL-742-SA5C-SB-0.0-0.5	PH025	SO	2012-07-24	FIELD
5C_DG	EB-072612	PH026	SO	2012-07-26	FIELD

**Appendix C. Samples by SDG for Phase 3 5C**

Task Code	System Sample Code	Lab SDG	Matrix Code	Sample Date	Sample Source
5C_DG	SL-570-SA5C-SB-0.0-0.5	PT001	SO	2012-04-18	FIELD
5C_DG	SL-570-SA5C-SB-2.0-3.0	PT001	SO	2012-04-18	FIELD
5C_DG	SL-580-SA5C-SB-0.0-0.5	PT001	SO	2012-04-18	FIELD
5C_DG	SL-580-SA5C-SB-4.0-5.0	PT001	SO	2012-04-18	FIELD
5C_DG	SL-581-SA5C-SB-0.0-0.5	PT001	SO	2012-04-17	FIELD
	EB-041912	PT002	WQ	2012-04-19	FIELD
5C_DG	SL-579-SA5C-SB-0.0-0.5	PT002	SO	2012-04-18	FIELD
5C_DG	SL-579-SA5C-SB-4.0-5.0	PT002	SO	2012-04-18	FIELD
5C_DG	SL-501-SA5C-SB-0.0-0.5	PT003	SO	2012-04-20	FIELD
	EB-042612	PT004	WQ	2012-04-26	FIELD
5C_DG	SL-695-SA5C-SB-0.0-0.5	PT004	SO	2012-04-26	FIELD
5C_DG	SL-995-SA5C-SB-0.0-0.5	PT004	SO	2012-04-26	FIELD
	EB-050312	PT005	WQ	2012-05-03	FIELD
5C_DG	SL-715-SA5C-SB-0.0-0.5	PT005	SO	2012-04-30	FIELD
	EB1-051712	PT006	WQ	2012-05-17	FIELD
5C_DG	SL-695-SA5C-SB-4.0-5.0	PT006	SO	2012-05-16	FIELD
5C_DG	SL-695-SA5C-SB-9.0-10.0	PT006	SO	2012-05-16	FIELD
	EB-052412	PT007	WQ	2012-05-24	FIELD
5C_DG	SL-730-SA5C-SB-0.0-0.5	PT007	SO	2012-05-22	FIELD
5C_DG	SL-730-SA5C-SB-4.0-5.0	PT007	SO	2012-05-22	FIELD
5C_DG	SL-730-SA5C-SB-9.0-10.0	PT007	SO	2012-05-22	FIELD
5C_DG	SL-731-SA5C-SB-0.0-0.5	PT007	SO	2012-05-22	FIELD
5C_DG	SL-731-SA5C-SB-4.0-5.0	PT007	SO	2012-05-22	FIELD
5C_DG	SL-731-SA5C-SB-9.0-10.0	PT007	SO	2012-05-22	FIELD
5C_DG	SL-732-SA5C-SB-10.5-11.5	PT007	SO	2012-05-22	FIELD
5C_DG	SL-732-SA5C-SB-5.0-6.0	PT007	SO	2012-05-22	FIELD
5C_DG	SL-573-SA5C-SB-0.0-0.5	PT008	SO	2012-06-04	FIELD
5C_DG	SL-573-SA5C-SB-4.0-5.0	PT008	SO	2012-06-04	FIELD
5C_DG	SL-573-SA5C-SB-9.0-10.0	PT008	SO	2012-06-04	FIELD
	FB-060512	PT009	WQ	2012-06-05	FIELD
	EB1-060712	PT010	WQ	2012-06-07	FIELD
5C_DG	SL-568-SA5C-SB-0.0-0.5	PT010	SO	2012-06-06	FIELD
5C_DG	SL-568-SA5C-SB-4.0-5.0	PT010	SO	2012-06-06	FIELD
5C_DG	SL-568-SA5C-SB-9.0-10.0	PT010	SO	2012-06-06	FIELD
5C_DG	SL-715-SA5C-SB-6.0-7.0	PT011	SO	2012-06-14	FIELD
	FB-062012	PT012	WQ	2012-06-20	FIELD
5C_DG	SL-581-SA5C-SB-4.0-5.0	PT013	SO	2012-06-26	FIELD
5C_DG	SL-881-SA5C-SB-4.0-5.0	PT013	SO	2012-06-26	FIELD
	EB-062812	PT014	WQ	2012-06-28	FIELD
5C_DG	SL-501-SA5C-SB-4.0-5.0	PT014	SO	2012-06-28	FIELD
	FB-071112	PT018	WQ	2012-07-11	FIELD
	EB-071212	PT019	WQ	2012-07-12	FIELD
5C_DG	SL-741-SA5C-SB-0.0-0.5	PT030	SO	2012-07-24	FIELD
5C_DG	SL-741-SA5C-SB-4.0-5.0	PT030	SO	2012-07-24	FIELD
5C_DG	SL-741-SA5C-SB-9.0-10.0	PT030	SO	2012-07-24	FIELD
5C_DG	SL-742-SA5C-SB-0.0-0.5	PT030	SO	2012-07-24	FIELD

# **SAMPLE DELIVERY GROUP**

**12D121**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Apr-2012	SL-735-SA5C-SB-0.0-0.5	D121-04	N	3550B	8015B EFH	III
12-Apr-2012	SL-735-SA5C-SB-0.0-0.5	D121-04	N	3550B	8082	III
12-Apr-2012	SL-735-SA5C-SB-0.0-0.5	D121-04	N	7471A	7471A	III
12-Apr-2012	SL-735-SA5C-SB-0.0-0.5	D121-04	N	TOTAL	6020	III
12-Apr-2012	SL-737-SA5C-SB-0.0-0.5	D121-05	N	3550B	8015B EFH	III
12-Apr-2012	SL-737-SA5C-SB-0.0-0.5	D121-05	N	3550B	8082	III
12-Apr-2012	SL-737-SA5C-SB-0.0-0.5	D121-05	N	7471A	7471A	III
12-Apr-2012	SL-737-SA5C-SB-0.0-0.5	D121-05	N	TOTAL	6020	III
12-Apr-2012	SL-686-SA5C-SB-0.0-0.5	D121-03	N	3550B	8015B EFH	III
12-Apr-2012	SL-686-SA5C-SB-0.0-0.5	D121-03	N	3550B	8082	III
12-Apr-2012	SL-686-SA5C-SB-0.0-0.5	D121-03	N	3550B	8270C SIM	III
12-Apr-2012	SL-686-SA5C-SB-0.0-0.5	D121-03	N	7471A	7471A	III
12-Apr-2012	SL-686-SA5C-SB-0.0-0.5	D121-03	N	TOTAL	6020	III
12-Apr-2012	SL-685-SA5C-SB-0.0-0.5	D121-02	N	3550B	8015B EFH	III
12-Apr-2012	SL-685-SA5C-SB-0.0-0.5	D121-02	N	3550B	8082	III
12-Apr-2012	SL-685-SA5C-SB-0.0-0.5	D121-02	N	3550B	8270C SIM	III
12-Apr-2012	SL-685-SA5C-SB-0.0-0.5	D121-02	N	7471A	7471A	III
12-Apr-2012	SL-685-SA5C-SB-0.0-0.5	D121-02	N	TOTAL	6020	III
12-Apr-2012	SL-684-SA5C-SB-0.0-0.5	D121-01	N	3550B	8015B EFH	III
12-Apr-2012	SL-684-SA5C-SB-0.0-0.5	D121-01	N	3550B	8082	III
12-Apr-2012	SL-684-SA5C-SB-0.0-0.5	D121-01	N	3550B	8270C SIM	III
12-Apr-2012	SL-684-SA5C-SB-0.0-0.5	D121-01	N	7471A	7471A	III
12-Apr-2012	SL-684-SA5C-SB-0.0-0.5	D121-01	N	TOTAL	6020	III
12-Apr-2012	SL-684-SA5C-SB-0.0-0.5MS	D121-01M	MS	TOTAL	6020	III
12-Apr-2012	SL-684-SA5C-SB-0.0-0.5MSD	D121-01S	MSD	TOTAL	6020	III
12-Apr-2012	SL-683-SA5C-SB-0.0-0.5	D121-06	N	3550B	8015B EFH	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
12-Apr-2012	SL-683-SA5C-SB-0.0-0.5	D121-06	N	3550B	8082	III
12-Apr-2012	SL-683-SA5C-SB-0.0-0.5	D121-06	N	3550B	8270C SIM	III
12-Apr-2012	SL-683-SA5C-SB-0.0-0.5	D121-06	N	7471A	7471A	III
12-Apr-2012	SL-683-SA5C-SB-0.0-0.5	D121-06	N	TOTAL	6020	III
12-Apr-2012	SL-681-SA5C-SB-0.0-0.5	D121-08	N	3550B	8015B EFH	III
12-Apr-2012	SL-681-SA5C-SB-0.0-0.5	D121-08	N	3550B	8082	III
12-Apr-2012	SL-681-SA5C-SB-0.0-0.5	D121-08	N	3550B	8270C SIM	III
12-Apr-2012	SL-681-SA5C-SB-0.0-0.5	D121-08	N	7471A	7471A	III
12-Apr-2012	SL-681-SA5C-SB-0.0-0.5	D121-08	N	TOTAL	6020	III
12-Apr-2012	SL-679-SA5C-SB-0.0-0.5	D121-07	N	3550B	8015B EFH	III
12-Apr-2012	SL-679-SA5C-SB-0.0-0.5	D121-07	N	3550B	8082	III
12-Apr-2012	SL-679-SA5C-SB-0.0-0.5	D121-07	N	3550B	8270C SIM	III
12-Apr-2012	SL-679-SA5C-SB-0.0-0.5	D121-07	N	7471A	7471A	III
12-Apr-2012	SL-679-SA5C-SB-0.0-0.5	D121-07	N	TOTAL	6020	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** METALS  
**Method:** 6020 **Matrix:** SO

Sample ID: SL-679-SA5C-SB-0.0-0.5 Collected: 4/12/2012 3:00:00 Analysis Type: RES/TOT Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.281	J	0.111	MDL	0.554	PQL	MG/KG	J	Z, Q, E
BERYLLIUM	0.517	J	0.0554	MDL	0.554	PQL	MG/KG	J	Z
CADMIUM	0.148	J	0.0554	MDL	0.554	PQL	MG/KG	J	Z
CHROMIUM	16.4		0.222	MDL	0.554	PQL	MG/KG	J	Q
IRON	20100		11.1	MDL	111	PQL	MG/KG	J	A
MOLYBDENUM	0.343	J	0.0554	MDL	0.554	PQL	MG/KG	J	Z
THALLIUM	0.257	J	0.0554	MDL	0.443	PQL	MG/KG	J	Z
Zirconium	5.54	U	2.77	MDL	5.54	PQL	MG/KG	UJ	Q

Sample ID: SL-681-SA5C-SB-0.0-0.5 Collected: 4/12/2012 2:35:00 Analysis Type: RES/TOT Dilution: 0.952

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.251	J	0.103	MDL	0.517	PQL	MG/KG	J	Z, Q, E
BERYLLIUM	0.359	J	0.0517	MDL	0.517	PQL	MG/KG	J	Z
BORON	4.34	J	2.59	MDL	5.17	PQL	MG/KG	J	Z
CADMIUM	0.222	J	0.0517	MDL	0.517	PQL	MG/KG	J	Z
CHROMIUM	11.8		0.207	MDL	0.517	PQL	MG/KG	J	Q
IRON	17400		10.3	MDL	103	PQL	MG/KG	J	A
MOLYBDENUM	0.348	J	0.0517	MDL	0.517	PQL	MG/KG	J	Z
THALLIUM	0.227	J	0.0517	MDL	0.414	PQL	MG/KG	J	Z
Zirconium	5.17	U	2.59	MDL	5.17	PQL	MG/KG	UJ	Q

Sample ID: SL-683-SA5C-SB-0.0-0.5 Collected: 4/12/2012 2:10:00 Analysis Type: RES/TOT Dilution: 0.985

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.429	J	0.110	MDL	0.552	PQL	MG/KG	J	Z, Q, E
BERYLLIUM	0.482	J	0.0552	MDL	0.552	PQL	MG/KG	J	Z
BORON	2.80	J	2.76	MDL	5.52	PQL	MG/KG	J	Z
CADMIUM	0.269	J	0.0552	MDL	0.552	PQL	MG/KG	J	Z
CHROMIUM	15.4		0.221	MDL	0.552	PQL	MG/KG	J	Q
IRON	18200		11.0	MDL	110	PQL	MG/KG	J	A
MOLYBDENUM	0.462	J	0.0552	MDL	0.552	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** METALS  
**Method:** 6020 **Matrix:** SO

Sample ID: SL-683-SA5C-SB-0.0-0.5			Collected: 4/12/2012 2:10:00			Analysis Type: RES/TOT			Dilution: 0.985	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
THALLIUM	0.248	J	0.0552	MDL	0.441	PQL	MG/KG	J	Z	
Zirconium	5.52	U	2.76	MDL	5.52	PQL	MG/KG	UJ	Q	

Sample ID: SL-684-SA5C-SB-0.0-0.5			Collected: 4/12/2012 1:45:00			Analysis Type: RES/TOT			Dilution: 0.980	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.224	J	0.115	MDL	0.576	PQL	MG/KG	J	Z, Q, E	
CADMIUM	0.295	J	0.0576	MDL	0.576	PQL	MG/KG	J	Z	
CHROMIUM	37.5		0.230	MDL	0.576	PQL	MG/KG	J	Q	
IRON	27600		11.5	MDL	115	PQL	MG/KG	J	A	
MOLYBDENUM	0.496	J	0.0576	MDL	0.576	PQL	MG/KG	J	Z	
THALLIUM	0.316	J	0.0576	MDL	0.461	PQL	MG/KG	J	Z	
Zirconium	5.76	U	2.88	MDL	5.76	PQL	MG/KG	UJ	Q	

Sample ID: SL-685-SA5C-SB-0.0-0.5			Collected: 4/12/2012 12:10:00			Analysis Type: RES/TOT			Dilution: 0.962	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.211	J	0.106	MDL	0.532	PQL	MG/KG	J	Z, Q, E	
BERYLLIUM	0.429	J	0.0532	MDL	0.532	PQL	MG/KG	J	Z	
BORON	5.02	J	2.66	MDL	5.32	PQL	MG/KG	J	Z	
CADMIUM	0.169	J	0.0532	MDL	0.532	PQL	MG/KG	J	Z	
CHROMIUM	12.1		0.213	MDL	0.532	PQL	MG/KG	J	Q	
IRON	16800		10.6	MDL	106	PQL	MG/KG	J	A	
MOLYBDENUM	0.405	J	0.0532	MDL	0.532	PQL	MG/KG	J	Z	
SODIUM	93.2	J	53.2	MDL	106	PQL	MG/KG	J	Z	
THALLIUM	0.240	J	0.0532	MDL	0.426	PQL	MG/KG	J	Z	
Zirconium	5.32	U	2.66	MDL	5.32	PQL	MG/KG	UJ	Q	

Sample ID: SL-686-SA5C-SB-0.0-0.5			Collected: 4/12/2012 11:40:00			Analysis Type: RES/TOT			Dilution: 1.00	
Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code	
ANTIMONY	0.444	J	0.111	MDL	0.554	PQL	MG/KG	J	Z, Q, E	

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-686-SA5C-SB-0.0-0.5      Collected: 4/12/2012 11:40:00      Analysis Type: RES/TOT      Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.394	J	0.0554	MDL	0.554	PQL	MG/KG	J	Z
CADMIUM	0.237	J	0.0554	MDL	0.554	PQL	MG/KG	J	Z
CHROMIUM	12.6		0.222	MDL	0.554	PQL	MG/KG	J	Q
IRON	17400		11.1	MDL	111	PQL	MG/KG	J	A
MOLYBDENUM	0.421	J	0.0554	MDL	0.554	PQL	MG/KG	J	Z
THALLIUM	0.219	J	0.0554	MDL	0.443	PQL	MG/KG	J	Z
Zirconium	5.54	U	2.77	MDL	5.54	PQL	MG/KG	UJ	Q

Sample ID: SL-735-SA5C-SB-0.0-0.5      Collected: 4/12/2012 10:00:00      Analysis Type: RES/TOT      Dilution: 0.976

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.292	J	0.106	MDL	0.532	PQL	MG/KG	J	Z, Q, E
BERYLLIUM	0.354	J	0.0532	MDL	0.532	PQL	MG/KG	J	Z
CADMIUM	0.177	J	0.0532	MDL	0.532	PQL	MG/KG	J	Z
CHROMIUM	12.7		0.213	MDL	0.532	PQL	MG/KG	J	Q
IRON	18600		10.6	MDL	106	PQL	MG/KG	J	A
MOLYBDENUM	0.461	J	0.0532	MDL	0.532	PQL	MG/KG	J	Z
THALLIUM	0.229	J	0.0532	MDL	0.426	PQL	MG/KG	J	Z
Zirconium	5.32	U	2.66	MDL	5.32	PQL	MG/KG	UJ	Q

Sample ID: SL-737-SA5C-SB-0.0-0.5      Collected: 4/12/2012 10:45:00      Analysis Type: RES/TOT      Dilution: 0.976

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.434	J	0.105	MDL	0.525	PQL	MG/KG	J	Z, Q, E
BERYLLIUM	0.206	J	0.0525	MDL	0.525	PQL	MG/KG	J	Z
CADMIUM	0.146	J	0.0525	MDL	0.525	PQL	MG/KG	J	Z
CHROMIUM	9.90		0.210	MDL	0.525	PQL	MG/KG	J	Q
IRON	17200		10.5	MDL	105	PQL	MG/KG	J	A
MOLYBDENUM	0.307	J	0.0525	MDL	0.525	PQL	MG/KG	J	Z
THALLIUM	0.223	J	0.0525	MDL	0.420	PQL	MG/KG	J	Z
Zirconium	5.25	U	2.63	MDL	5.25	PQL	MG/KG	UJ	Q

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	7471A	<b>Matrix:</b> SO

Sample ID: SL-679-SA5C-SB-0.0-0.5      Collected: 4/12/2012 3:00:00      Analysis Type: RES/TOT      Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.111	U	0.0554	MDL	0.111	PQL	MG/KG	UJ	H

Sample ID: SL-681-SA5C-SB-0.0-0.5      Collected: 4/12/2012 2:35:00      Analysis Type: RES/TOT      Dilution: 0.988

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.107	U	0.0537	MDL	0.107	PQL	MG/KG	UJ	H

Sample ID: SL-683-SA5C-SB-0.0-0.5      Collected: 4/12/2012 2:10:00      Analysis Type: RES/TOT      Dilution: 0.979

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.110	U	0.0548	MDL	0.110	PQL	MG/KG	UJ	H

Sample ID: SL-684-SA5C-SB-0.0-0.5      Collected: 4/12/2012 1:45:00      Analysis Type: RES/TOT      Dilution: 0.993

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.117	U	0.0583	MDL	0.117	PQL	MG/KG	UJ	H

Sample ID: SL-685-SA5C-SB-0.0-0.5      Collected: 4/12/2012 12:10:00      Analysis Type: RES/TOT      Dilution: 0.995

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.110	U	0.0550	MDL	0.110	PQL	MG/KG	UJ	H

Sample ID: SL-686-SA5C-SB-0.0-0.5      Collected: 4/12/2012 11:40:00      Analysis Type: RES/TOT      Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.136		0.0554	MDL	0.111	PQL	MG/KG	J	H

Sample ID: SL-735-SA5C-SB-0.0-0.5      Collected: 4/12/2012 10:00:00      Analysis Type: RES/TOT      Dilution: 1.01

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.110	U	0.0551	MDL	0.110	PQL	MG/KG	UJ	H

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	7471A	<b>Matrix:</b> SO

Sample ID: SL-737-SA5C-SB-0.0-0.5      Collected: 4/12/2012 10:45:00      Analysis Type: RES/TOT      Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.108	U	0.0538	MDL	0.108	PQL	MG/KG	UJ	H

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8015B EFH	<b>Matrix:</b> SO

Sample ID: SL-683-SA5C-SB-0.0-0.5      Collected: 4/12/2012 2:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C21-C30)	4.4	J	2.8	MDL	5.6	PQL	MG/KG	J	Z

Sample ID: SL-686-SA5C-SB-0.0-0.5      Collected: 4/12/2012 11:40:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C21-C30)	2.9	J	2.8	MDL	5.5	PQL	MG/KG	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8082	<b>Matrix:</b> SO

Sample ID: SL-683-SA5C-SB-0.0-0.5      Collected: 4/12/2012 2:10:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	20	J	11	MDL	22	PQL	UG/KG	J	Z
Aroclor 5460	31	J	22	MDL	45	PQL	UG/KG	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C SIM	<b>Matrix:</b> SO

Sample ID: SL-679-SA5C-SB-0.0-0.5      Collected: 4/12/2012 3:00:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	SVOA	<b>Method:</b>	8270C SIM	<b>Matrix:</b>	SO
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Sample ID: SL-679-SA5C-SB-0.0-0.5      Collected: 4/12/2012 3:00:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHYLENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(B)FLUORANTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(E)PYRENE	5.5	U	2.8	MDL	5.5	PQL	UG/KG	UJ	S
BENZO(G,H,I)PERYLENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(K)FLUORANTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
CHRYSENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
DIBENZO(A,H)ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
FLUORANTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
FLUORENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
INDENO(1,2,3-CD)PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
NAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
PHENANTHRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S

Sample ID: SL-681-SA5C-SB-0.0-0.5      Collected: 4/12/2012 2:35:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	8.2	J	5.4	MDL	22	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	7.2	J	5.4	MDL	22	PQL	UG/KG	J	Z

Sample ID: SL-683-SA5C-SB-0.0-0.5      Collected: 4/12/2012 2:10:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	3.2	J	2.8	MDL	11	PQL	UG/KG	J	Z
BENZO(A)PYRENE	3.1	J	2.8	MDL	11	PQL	UG/KG	J	Z
BENZO(B)FLUORANTHENE	5.2	J	2.8	MDL	11	PQL	UG/KG	J	Z
BENZO(E)PYRENE	3.9	J	2.8	MDL	5.6	PQL	UG/KG	J	Z
CHRYSENE	3.2	J	2.8	MDL	11	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

**Sample ID:** SL-683-SA5C-SB-0.0-0.5 **Collected:** 4/12/2012 2:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	4.1	J	2.8	MDL	11	PQL	UG/KG	J	Z
PYRENE	4.1	J	2.8	MDL	11	PQL	UG/KG	J	Z

**Sample ID:** SL-684-SA5C-SB-0.0-0.5 **Collected:** 4/12/2012 1:45:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ACENAPHTHENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(A)PYRENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(B)FLUORANTHENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(E)PYRENE	5.9	U	2.9	MDL	5.9	PQL	UG/KG	UJ	S
BENZO(G,H,I)PERYLENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(K)FLUORANTHENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
CHRYSENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
DIBENZO(A,H)ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
FLUORANTHENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
FLUORENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
INDENO(1,2,3-CD)PYRENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
NAPHTHALENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
PHENANTHRENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
PYRENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S

**Sample ID:** SL-685-SA5C-SB-0.0-0.5 **Collected:** 4/12/2012 12:10:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-685-SA5C-SB-0.0-0.5 Collected: 4/12/2012 12:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(B)FLUORANTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(E)PYRENE	5.5	U	2.8	MDL	5.5	PQL	UG/KG	UJ	S
BENZO(G,H,I)PERYLENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(K)FLUORANTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
CHRYSENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
DIBENZO(A,H)ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
FLUORANTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
FLUORENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
INDENO(1,2,3-CD)PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
NAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
PHENANTHRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S

Sample ID: SL-686-SA5C-SB-0.0-0.5 Collected: 4/12/2012 11:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	11		2.8	MDL	11	PQL	UG/KG	J	S
BENZO(A)PYRENE	11	J	2.8	MDL	11	PQL	UG/KG	J	S
BENZO(B)FLUORANTHENE	14		2.8	MDL	11	PQL	UG/KG	J	S
BENZO(E)PYRENE	7.2		2.8	MDL	5.5	PQL	UG/KG	J	S
BENZO(G,H,I)PERYLENE	4.8	J	2.8	MDL	11	PQL	UG/KG	J	Z, S
BENZO(K)FLUORANTHENE	4.6	J	2.8	MDL	11	PQL	UG/KG	J	Z, S
CHRYSENE	12		2.8	MDL	11	PQL	UG/KG	J	S
DIBENZO(A,H)ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/20/2012 7:52:53 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-686-SA5C-SB-0.0-0.5

Collected: 4/12/2012 11:40:00

Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	23		2.8	MDL	11	PQL	UG/KG	J	S
FLUORENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
INDENO(1,2,3-CD)PYRENE	5.0	J	2.8	MDL	11	PQL	UG/KG	J	Z, S
NAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
PHENANTHRENE	10	J	2.8	MDL	11	PQL	UG/KG	J	Z, S
PYRENE	22		2.8	MDL	11	PQL	UG/KG	J	S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/20/2012 7:52:53 AM

ADR version 1.6.0.193

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: Prep12D121

eQAPP Name: CDM\_SSFL\_120730\_EMAX

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
*#	Professional Judgment
A	ICP Serial Dilution
E	Matrix Spike Precision
H	Sampling to Analysis Estimation
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/26/2012 7:09:29 AM

ADR version 1.6.0.194

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

12D121

# QC Outlier Report: HoldingTimes

Lab Reporting Batch ID: 12D121  
EDD Filename: 12D121R

Laboratory: EMXT  
eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 7471A Preparation Method: 7471A  
Matrix: SO

Sample ID	Type	Actual	Criteria	Units	Flag
SL-679-SA5C-SB-0.0-0.5 (RES/TOT)	Sampling To Analysis	29.00	28.00	DAYS	J (all detects) UJ (all non-detects)
SL-681-SA5C-SB-0.0-0.5 (RES/TOT)		29.00	28.00	DAYS	
SL-683-SA5C-SB-0.0-0.5 (RES/TOT)		29.00	28.00	DAYS	
SL-684-SA5C-SB-0.0-0.5 (RES/TOT)		29.00	28.00	DAYS	
SL-685-SA5C-SB-0.0-0.5 (RES/TOT)		29.00	28.00	DAYS	
SL-686-SA5C-SB-0.0-0.5 (RES/TOT)		29.00	28.00	DAYS	
SL-735-SA5C-SB-0.0-0.5 (RES/TOT)		29.00	28.00	DAYS	
SL-737-SA5C-SB-0.0-0.5 (RES/TOT)		29.00	28.00	DAYS	

# Surrogate Outlier Report

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 8270C SIM  
**Matrix:** SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-679-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL Nitrobenzene-d5	34.3 33.5	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J (all detects) UJ (all non-detects)
SL-683-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL	44.3	45.00-130.00	No Affected Compounds	
SL-684-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL Nitrobenzene-d5	33.5 35.8	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)
SL-685-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL Nitrobenzene-d5	33.9 34.9	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)
SL-686-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL Nitrobenzene-d5	40.1 39.1	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method: 6020**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-684-SA5C-SB-0.0-0.5MS (TOT) SL-684-SA5C-SB-0.0-0.5MSD (TOT) (SL-679-SA5C-SB-0.0-0.5 SL-681-SA5C-SB-0.0-0.5 SL-683-SA5C-SB-0.0-0.5 SL-684-SA5C-SB-0.0-0.5 SL-685-SA5C-SB-0.0-0.5 SL-686-SA5C-SB-0.0-0.5 SL-735-SA5C-SB-0.0-0.5 SL-737-SA5C-SB-0.0-0.5)	CALCIUM TITANIUM	158 212	165 304	75.00-125.00 75.00-125.00	- -	CALCIUM TITANIUM	No Qual, >4x
SL-684-SA5C-SB-0.0-0.5MS (TOT) SL-684-SA5C-SB-0.0-0.5MSD (TOT) (SL-679-SA5C-SB-0.0-0.5 SL-681-SA5C-SB-0.0-0.5 SL-683-SA5C-SB-0.0-0.5 SL-684-SA5C-SB-0.0-0.5 SL-685-SA5C-SB-0.0-0.5 SL-686-SA5C-SB-0.0-0.5 SL-735-SA5C-SB-0.0-0.5 SL-737-SA5C-SB-0.0-0.5)	IRON MANGANESE	-10 24	40 61	75.00-125.00 75.00-125.00	- -	IRON MANGANESE	No Qual, >4x
SL-684-SA5C-SB-0.0-0.5MS (TOT) SL-684-SA5C-SB-0.0-0.5MSD (TOT) (SL-679-SA5C-SB-0.0-0.5 SL-681-SA5C-SB-0.0-0.5 SL-683-SA5C-SB-0.0-0.5 SL-684-SA5C-SB-0.0-0.5 SL-685-SA5C-SB-0.0-0.5 SL-686-SA5C-SB-0.0-0.5 SL-735-SA5C-SB-0.0-0.5 SL-737-SA5C-SB-0.0-0.5)	ALUMINUM ANTIMONY CHROMIUM Zirconium	67 61 42 40	- 46 47 45	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- 29 (20.00) - -	ALUMINUM ANTIMONY CHROMIUM Zirconium	J(all detects) UJ(all non-detects)  Al, No Qual, >4x

# Reporting Limit Outliers

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 6020  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-679-SA5C-SB-0.0-0.5	ANTIMONY	J	0.281	0.554	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.517	0.554	PQL	MG/KG	
	CADMIUM	J	0.148	0.554	PQL	MG/KG	
	MOLYBDENUM	J	0.343	0.554	PQL	MG/KG	
	THALLIUM	J	0.257	0.443	PQL	MG/KG	
SL-681-SA5C-SB-0.0-0.5	ANTIMONY	J	0.251	0.517	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.359	0.517	PQL	MG/KG	
	BORON	J	4.34	5.17	PQL	MG/KG	
	CADMIUM	J	0.222	0.517	PQL	MG/KG	
	MOLYBDENUM	J	0.348	0.517	PQL	MG/KG	
SL-683-SA5C-SB-0.0-0.5	ANTIMONY	J	0.429	0.552	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.482	0.552	PQL	MG/KG	
	BORON	J	2.80	5.52	PQL	MG/KG	
	CADMIUM	J	0.269	0.552	PQL	MG/KG	
	MOLYBDENUM	J	0.462	0.552	PQL	MG/KG	
SL-684-SA5C-SB-0.0-0.5	ANTIMONY	J	0.224	0.576	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.295	0.576	PQL	MG/KG	
	MOLYBDENUM	J	0.496	0.576	PQL	MG/KG	
	THALLIUM	J	0.316	0.461	PQL	MG/KG	
	SL-685-SA5C-SB-0.0-0.5	ANTIMONY	J	0.211	0.532	PQL	
BERYLLIUM		J	0.429	0.532	PQL	MG/KG	
BORON		J	5.02	5.32	PQL	MG/KG	
CADMIUM		J	0.169	0.532	PQL	MG/KG	
MOLYBDENUM		J	0.405	0.532	PQL	MG/KG	
SODIUM		J	93.2	106	PQL	MG/KG	
THALLIUM		J	0.240	0.426	PQL	MG/KG	
SL-686-SA5C-SB-0.0-0.5	ANTIMONY	J	0.444	0.554	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.394	0.554	PQL	MG/KG	
	CADMIUM	J	0.237	0.554	PQL	MG/KG	
	MOLYBDENUM	J	0.421	0.554	PQL	MG/KG	
	THALLIUM	J	0.219	0.443	PQL	MG/KG	
SL-735-SA5C-SB-0.0-0.5	ANTIMONY	J	0.292	0.532	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.354	0.532	PQL	MG/KG	
	CADMIUM	J	0.177	0.532	PQL	MG/KG	
	MOLYBDENUM	J	0.461	0.532	PQL	MG/KG	
	THALLIUM	J	0.229	0.426	PQL	MG/KG	
SL-737-SA5C-SB-0.0-0.5	ANTIMONY	J	0.434	0.525	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.206	0.525	PQL	MG/KG	
	CADMIUM	J	0.146	0.525	PQL	MG/KG	
	MOLYBDENUM	J	0.307	0.525	PQL	MG/KG	
	THALLIUM	J	0.223	0.420	PQL	MG/KG	

**Method:** 8015B EFH  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-683-SA5C-SB-0.0-0.5	EFH(C21-C30)	J	4.4	5.6	PQL	MG/KG	J (all detects)

Project Name and Number: PHASE3 - SSFL PHASE 3

11/20/2012 7:44:13 AM

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# Reporting Limit Outliers

Lab Reporting Batch ID: 12D121

Laboratory: EMXT

EDD Filename: 12D121R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 8015B EFH

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-686-SA5C-SB-0.0-0.5	EFH(C21-C30)	J	2.9	5.5	PQL	MG/KG	J (all detects)

**Method:** 8082

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-683-SA5C-SB-0.0-0.5	AROCLOR 1254	J	20	22	PQL	UG/KG	J (all detects)
	Aroclor 5460	J	31	45	PQL	UG/KG	

**Method:** 8270C SIM

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-681-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	8.2	22	PQL	UG/KG	J (all detects)
	BENZO(G,H,I)PERYLENE	J	7.2	22	PQL	UG/KG	
SL-683-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	3.2	11	PQL	UG/KG	J (all detects)
	BENZO(A)PYRENE	J	3.1	11	PQL	UG/KG	
	BENZO(B)FLUORANTHENE	J	5.2	11	PQL	UG/KG	
	BENZO(E)PYRENE	J	3.9	5.6	PQL	UG/KG	
	CHRYSENE	J	3.2	11	PQL	UG/KG	
	FLUORANTHENE	J	4.1	11	PQL	UG/KG	
SL-686-SA5C-SB-0.0-0.5	PYRENE	J	4.1	11	PQL	UG/KG	J (all detects)
	BENZO(G,H,I)PERYLENE	J	4.8	11	PQL	UG/KG	
	BENZO(K)FLUORANTHENE	J	4.6	11	PQL	UG/KG	
	INDENO(1,2,3-CD)PYRENE	J	5.0	11	PQL	UG/KG	
	PHENANTHRENE	J	10	11	PQL	UG/KG	

LDC #: 28558A4  
 SDG #: 12D121  
 Laboratory: EMAX Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 ADR

Date: 11-5-12  
 Page: 1 of 1  
 Reviewer: [Signature]  
 2nd Reviewer: [Signature]

**METHOD:** Metals (EPA SW 846 Method ~~6010B~~/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	-	Sampling dates:
II.	ICP/MS Tune	-	
III.	Calibration	-	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	-	
VI.	Matrix Spike Analysis	SW	MS/D
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EB= EB-041912 (120175)

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

FB= FB-071112  
 (126064)

Validated Samples: soil

1	SL-684-SA5C-SB-0.0-0.5	11		21		31	
2	SL-685-SA5C-SB-0.0-0.5	12		22		32	
3	SL-686-SA5C-SB-0.0-0.5	13		23		33	
4	SL-735-SA5C-SB-0.0-0.5	14		24		34	
5	SL-737-SA5C-SB-0.0-0.5	15		25		35	
6	SL-683-SA5C-SB-0.0-0.5	16		26		36	
7	SL-679-SA5C-SB-0.0-0.5	17		27		37	
8	SL-681-SA5C-SB-0.0-0.5	18		28		38	
9	SL-684-SA5C-SB-0.0-0.5MS	19		29		39	
10	SL-684-SA5C-SB-0.0-0.5MSD	20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

EMAX QUALITY CONTROL DATA  
MS/MSD ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
SDG NO.: 12D121  
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 14.9  
DILT N FACTR: 0.980 0.990 0.980  
SAMPLE ID: SL-684-SA5C-SB-0.0-0.5  
CONTROL NO.: D121-01 D121-01M D121-01S  
LAB FILE ID: 98D19037 98D19034 98D19035  
DATIME EXTRACTD: 04/23/1210:25 04/23/1210:25 04/23/1210:25 DATE COLLECTED: 04/12/12  
DATIME ANALYZD: 04/27/1215:56 04/27/1215:42 04/27/1215:47 DATE RECEIVED: 04/12/12  
PREP. BATCH: IMD032S IMD032S IMD032S  
CALIB. REF: 98D19029 98D19029 98D19029

ACCESSION:

PARAMETER	SMPL RSLT mg/kg	SPIKE AMT mg/kg	MS RSLT mg/kg	MS % REC	SPIKE AMT mg/kg	MSD RSLT mg/kg	MSD % REC	RPD %	QC LIMIT %	MAX RPD %	
Aluminum	18200	2910	20200	67*	2880	20600	84	2	75-125	20	>4X
Antimony	0.224J	29.1	17.9	61*	28.8	13.4	46*	29*	75-125	20	J1UJ1A
Arsenic	5.63	29.1	32.5	92	28.8	32.6	94	0	75-125	20	
Barium	119	29.1	146	95	28.8	149	104	2	75-125	20	
Beryllium	0.721	29.1	29.0	97	28.8	29.1	99	1	75-125	20	
Boron	5.98	29.1	32.1	90	28.8	32.6	92	2	75-125	20	
Cadmium	0.295J	29.1	28.8	98	28.8	28.9	99	0	75-125	20	
Calcium	18600	2910	23200	158*	2880	23400	165*	1	75-125	20	>4X
Chromium	37.5	29.1	49.8	42*	28.8	51.1	47*	3	75-125	20	J1UJ1A
Cobalt	8.96	29.1	33.1	83	28.8	33.6	86	2	75-125	20	
Copper	12.9	29.1	36.5	81	28.8	37.9	87	4	75-125	20	
Iron	27600	2910	27300	-10*	2880	28800	40*	5	75-125	20	>4X
Lead	8.61	29.1	36.5	96	28.8	36.7	98	0	75-125	20	
Magnesium	6850	2910	9380	87	2880	9430	89	0	75-125	20	
Manganese	308	29.1	315	24*	28.8	326	61*	3	75-125	20	>4X
Molybdenum	0.496J	29.1	28.6	97	28.8	28.0	96	2	75-125	20	
Nickel	16.2	29.1	39.4	80	28.8	39.7	82	1	75-125	20	
Potassium	4160	2910	6870	93	2880	7050	100	3	75-125	20	
Selenium	ND	29.1	28.5	98	28.8	28.3	98	1	75-125	20	
Silver	ND	29.1	28.7	99	28.8	28.5	99	1	75-125	20	
Sodium	148	2910	2780	91	2880	2760	91	1	75-125	20	
Strontium	51.8	29.1	82.8	107	28.8	83.4	110	1	75-125	20	
Thallium	0.316J	29.1	29.6	101	28.8	29.6	102	0	75-125	20	
Tin	ND	29.1	33.8	116	28.8	34.2	119	1	75-125	20	
Titanium	739	29.1	800	212*	28.8	826	304*	3	75-125	20	>4X
Vanadium	52.9	29.1	75.7	78	28.8	78.5	89	4	75-125	20	
Zinc	72.1	58.2	127	95	57.6	129	100	2	75-125	20	
Lithium	23.6	29.1	52.1	98	28.8	53.2	103	2	75-125	20	
Phosphorus	454	291	707	87	288	746	101	5	75-125	20	
Zirconium	ND	29.1	11.5	40*	28.8	13.0	45*	12	75-125	20	J1UJ1A

EMAX QUALITY CONTROL DATA  
SERIAL DILUTION ANALYSIS

CLIENT: CDM  
PROJECT: SSFL PHASE 3  
BATCH NO.: 120121  
METHOD: METHOD 6020

MATRIX: SOIL % MOISTURE: 14.9  
DILUTION FACTOR: 0.980 4.90  
SAMPLE ID: SL-684-SA5C-SB SL-684-SA5C-SB  
EMAX SAMP ID: D121-01 D121-01J  
LAB FILE ID: 98D19037 98D19038  
DATE EXTRACTED: 04/23/1210:25 04/23/1210:25 DATE COLLECTED: 04/12/12  
DATE ANALYZED: 04/27/1215:56 04/27/1216:00 DATE RECEIVED: 04/12/12  
PREP. BATCH: IMD032S IMD032S  
CALIB. REF: 98D19029 98D19029

ACCESSION:

PARAMETER	SMP L RSLT (mg/kg)	SERIAL DIL RSLT (mg/kg)	DIF RSLT %	QC LIMIT (%)
Aluminum	18200	19700	8	10
Antimony	0.224J	ND	NA	10
Arsenic	5.63	5.62	0	10
Barium	119	114	4	10
Beryllium	0.721	0.725J	NA	10
Boron	5.98	ND	NA	10
Cadmium	0.295J	0.321J	NA	10
Calcium	18600	20400	9	10
Chromium	37.5	40.3	7	10
Cobalt	8.96	9.76	9	10
Copper	12.9	14.8	15	10
Iron	27600	30700	11	10
Lead	8.61	8.74	2	10
Magnesium	6850	7490	9	10
Manganese	308	335	8	10
Molybdenum	0.496J	0.482J	NA	10
Nickel	16.2	17.8	10	10
Potassium	4160	4340	4	10
Selenium	ND	ND	0	10
Silver	ND	ND	0	10
Sodium	148	ND	NA	10
Strontium	51.8	50.9	2	10
Thallium	0.316J	0.321J	NA	10
Tin	ND	ND	0	10
Titanium	739	770	4	10
Vanadium	52.9	55.7	5	10
Zinc	72.1	74.2	3	10
Lithium	23.6	21.3	10	10
Phosphorus	454	467	3	10
Zirconium	ND	ND	0	10

- No qual (< 100% mol)  
SUSIA



**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** ug/L **Associated sample units:** mg/Kg  
**Sampling date:** 7/11/12 **Soil factor applied:** 50x  
**Field blank type:** (circle one) Field Blank / Rinsate / Other: Associated Samples: All

Analyte	Blank ID	Action Limit	No Qualifiers	Sample Identification				
	FB-071112							
Al	0.0296	7.4						
Cu	0.00102	0.255						
Ni	0.000204	0.051						

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
 Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# **SAMPLE DELIVERY GROUP**

**12D147**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Apr-2012	SL-688-SA5C-SB-0.0-0.5	D147-04	N	3550B	8015B EFH	III
16-Apr-2012	SL-688-SA5C-SB-0.0-0.5	D147-04	N	3550B	8082	III
16-Apr-2012	SL-688-SA5C-SB-0.0-0.5	D147-04	N	7471A	7471A	III
16-Apr-2012	SL-688-SA5C-SB-0.0-0.5	D147-04	N	TOTAL	6020	III
16-Apr-2012	SL-688-SA5C-SB-0.0-0.5	D147-04W	N	3550B	8270C SIM	III
16-Apr-2012	SL-687-SA5C-SB-0.0-0.5	D147-05	N	3550B	8015B EFH	III
16-Apr-2012	SL-687-SA5C-SB-0.0-0.5	D147-05	N	3550B	8082	III
16-Apr-2012	SL-687-SA5C-SB-0.0-0.5	D147-05	N	7471A	7471A	III
16-Apr-2012	SL-687-SA5C-SB-0.0-0.5	D147-05	N	TOTAL	6020	III
16-Apr-2012	SL-687-SA5C-SB-0.0-0.5	D147-05W	N	3550B	8270C SIM	III
16-Apr-2012	SL-689-SA5C-SB-0.0-0.5	D147-03	N	3550B	8015B EFH	III
16-Apr-2012	SL-689-SA5C-SB-0.0-0.5	D147-03	N	3550B	8082	III
16-Apr-2012	SL-689-SA5C-SB-0.0-0.5	D147-03	N	3550B	8270C SIM	III
16-Apr-2012	SL-689-SA5C-SB-0.0-0.5	D147-03	N	7471A	7471A	III
16-Apr-2012	SL-689-SA5C-SB-0.0-0.5	D147-03	N	TOTAL	6020	III
16-Apr-2012	SL-690-SA5C-SB-0.0-0.5	D147-02	N	3550B	8015B EFH	III
16-Apr-2012	SL-690-SA5C-SB-0.0-0.5	D147-02	N	3550B	8082	III
16-Apr-2012	SL-690-SA5C-SB-0.0-0.5	D147-02	N	3550B	8270C SIM	III
16-Apr-2012	SL-690-SA5C-SB-0.0-0.5	D147-02	N	7471A	7471A	III
16-Apr-2012	SL-690-SA5C-SB-0.0-0.5	D147-02	N	TOTAL	6020	III
16-Apr-2012	SL-691-SA5C-SB-0.0-0.5	D147-01	N	3550B	8015B EFH	III
16-Apr-2012	SL-691-SA5C-SB-0.0-0.5	D147-01	N	3550B	8082	III
16-Apr-2012	SL-691-SA5C-SB-0.0-0.5	D147-01	N	3550B	8270C SIM	III
16-Apr-2012	SL-691-SA5C-SB-0.0-0.5	D147-01	N	7471A	7471A	III
16-Apr-2012	SL-691-SA5C-SB-0.0-0.5	D147-01	N	TOTAL	6020	III
16-Apr-2012	SL-691-SA5C-SB-0.0-0.5MS	D147-01M	MS	7471A	7471A	III

III = EPA Level 3 Data Review  
IV = EPA Level 4 Data Validation

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Apr-2012	SL-691-SA5C-SB-0.0-0.5MSD	D147-01S	MSD	7471A	7471A	III
16-Apr-2012	SL-692-SA5C-SB-0.0-0.5	D147-06	N	3550B	8015B EFH	III
16-Apr-2012	SL-692-SA5C-SB-0.0-0.5	D147-06	N	3550B	8082	III
16-Apr-2012	SL-692-SA5C-SB-0.0-0.5	D147-06	N	7471A	7471A	III
16-Apr-2012	SL-692-SA5C-SB-0.0-0.5	D147-06	N	TOTAL	6020	III
16-Apr-2012	SL-692-SA5C-SB-0.0-0.5	D147-06W	N	3550B	8270C SIM	III
16-Apr-2012	SL-693-SA5C-SB-0.0-0.5	D147-07	N	3550B	8015B EFH	III
16-Apr-2012	SL-693-SA5C-SB-0.0-0.5	D147-07	N	3550B	8082	III
16-Apr-2012	SL-693-SA5C-SB-0.0-0.5	D147-07	N	7471A	7471A	III
16-Apr-2012	SL-693-SA5C-SB-0.0-0.5	D147-07	N	TOTAL	6020	III
16-Apr-2012	SL-693-SA5C-SB-0.0-0.5	D147-07W	N	3550B	8270C SIM	III
16-Apr-2012	SL-744A-SA5C-SB-0.0-0.5	D147-08	N	3550B	8082	III
16-Apr-2012	SL-744A-SA5C-SB-0.0-0.5MS	D147-08M	MS	3550B	8082	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: 12D147

Laboratory: EMXT

EDD Filename: 12D147R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	<b>METALS</b>								
<b>Method:</b>	6020	<b>Matrix:</b>	SO						

Sample ID: SL-687-SA5C-SB-0.0-0.5      Collected: 4/16/2012 10:10:00      Analysis Type: RES/TOT      Dilution: 0.995

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.372	J	0.116	MDL	0.581	PQL	MG/KG	J	Z, Q, E
BORON	5.54	J	2.91	MDL	5.81	PQL	MG/KG	J	Z
CADMIUM	0.295	J	0.0581	MDL	0.581	PQL	MG/KG	J	Z
CHROMIUM	23.3		0.232	MDL	0.581	PQL	MG/KG	J	Q
IRON	24800		11.6	MDL	116	PQL	MG/KG	J	A
MOLYBDENUM	0.347	J	0.0581	MDL	0.581	PQL	MG/KG	J	Z
SODIUM	76.5	J	58.1	MDL	116	PQL	MG/KG	J	Z
THALLIUM	0.285	J	0.0581	MDL	0.465	PQL	MG/KG	J	Z
Zirconium	5.81	U	2.91	MDL	5.81	PQL	MG/KG	UJ	Q

Sample ID: SL-688-SA5C-SB-0.0-0.5      Collected: 4/16/2012 9:40:00      Analysis Type: RES/TOT      Dilution: 0.971

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.500	J	0.105	MDL	0.526	PQL	MG/KG	J	Z, Q, E
BERYLLIUM	0.361	J	0.0526	MDL	0.526	PQL	MG/KG	J	Z
BORON	3.05	J	2.63	MDL	5.26	PQL	MG/KG	J	Z
CHROMIUM	12.5		0.210	MDL	0.526	PQL	MG/KG	J	Q
IRON	16800		10.5	MDL	105	PQL	MG/KG	J	A
MOLYBDENUM	0.334	J	0.0526	MDL	0.526	PQL	MG/KG	J	Z
THALLIUM	0.236	J	0.0526	MDL	0.421	PQL	MG/KG	J	Z
Zirconium	5.26	U	2.63	MDL	5.26	PQL	MG/KG	UJ	Q

Sample ID: SL-689-SA5C-SB-0.0-0.5      Collected: 4/16/2012 10:40:00      Analysis Type: RES/TOT      Dilution: 0.957

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.487	J	0.114	MDL	0.572	PQL	MG/KG	J	Z, Q, E
BORON	5.16	J	2.86	MDL	5.72	PQL	MG/KG	J	Z
CADMIUM	0.285	J	0.0572	MDL	0.572	PQL	MG/KG	J	Z
CHROMIUM	22.7		0.229	MDL	0.572	PQL	MG/KG	J	Q
IRON	24500		11.4	MDL	114	PQL	MG/KG	J	A
MOLYBDENUM	0.339	J	0.0572	MDL	0.572	PQL	MG/KG	J	Z
SODIUM	85.3	J	57.2	MDL	114	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/20/2012 8:55:06 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D147

Laboratory: EMXT

EDD Filename: 12D147R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-689-SA5C-SB-0.0-0.5      Collected: 4/16/2012 10:40:00      Analysis Type: RES/TOT      Dilution: 0.957

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.288	J	0.0572	MDL	0.457	PQL	MG/KG	J	Z
Zirconium	5.72	U	2.86	MDL	5.72	PQL	MG/KG	UJ	Q

Sample ID: SL-690-SA5C-SB-0.0-0.5      Collected: 4/16/2012 11:05:00      Analysis Type: RES/TOT      Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.874		0.115	MDL	0.577	PQL	MG/KG	J	Q, E
BORON	3.04	J	2.88	MDL	5.77	PQL	MG/KG	J	Z
CHROMIUM	20.5		0.231	MDL	0.577	PQL	MG/KG	J	Q
IRON	23800		11.5	MDL	115	PQL	MG/KG	J	A
SODIUM	88.5	J	57.7	MDL	115	PQL	MG/KG	J	Z
THALLIUM	0.282	J	0.0577	MDL	0.461	PQL	MG/KG	J	Z
Zirconium	5.77	U	2.88	MDL	5.77	PQL	MG/KG	UJ	Q

Sample ID: SL-691-SA5C-SB-0.0-0.5      Collected: 4/16/2012 11:35:00      Analysis Type: RES/TOT      Dilution: 0.990

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	1.13		0.111	MDL	0.556	PQL	MG/KG	J	Q, E
BERYLLIUM	0.439	J	0.0556	MDL	0.556	PQL	MG/KG	J	Z
CADMIUM	0.221	J	0.0556	MDL	0.556	PQL	MG/KG	J	Z
CHROMIUM	13.8		0.222	MDL	0.556	PQL	MG/KG	J	Q
IRON	17400		11.1	MDL	111	PQL	MG/KG	J	A
MOLYBDENUM	0.426	J	0.0556	MDL	0.556	PQL	MG/KG	J	Z
SODIUM	80.4	J	55.6	MDL	111	PQL	MG/KG	J	Z
THALLIUM	0.233	J	0.0556	MDL	0.444	PQL	MG/KG	J	Z
Zirconium	5.56	U	2.78	MDL	5.56	PQL	MG/KG	UJ	Q

Sample ID: SL-692-SA5C-SB-0.0-0.5      Collected: 4/16/2012 1:05:00      Analysis Type: RES/TOT      Dilution: 0.980

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.250	J	0.117	MDL	0.585	PQL	MG/KG	J	Z, Q, E
CADMIUM	0.287	J	0.0585	MDL	0.585	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D147

Laboratory: EMXT

EDD Filename: 12D147R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** METALS  
**Method:** 6020 **Matrix:** SO

Sample ID: SL-692-SA5C-SB-0.0-0.5 Collected: 4/16/2012 1:05:00 Analysis Type: RES/TOT Dilution: 0.980

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHROMIUM	26.0		0.234	MDL	0.585	PQL	MG/KG	J	Q
IRON	26900		11.7	MDL	117	PQL	MG/KG	J	A
MOLYBDENUM	0.330	J	0.0585	MDL	0.585	PQL	MG/KG	J	Z
SODIUM	97.1	J	58.5	MDL	117	PQL	MG/KG	J	Z
THALLIUM	0.312	J	0.0585	MDL	0.468	PQL	MG/KG	J	Z
Zirconium	5.85	U	2.93	MDL	5.85	PQL	MG/KG	UJ	Q

Sample ID: SL-693-SA5C-SB-0.0-0.5 Collected: 4/16/2012 1:30:00 Analysis Type: RES/TOT Dilution: 0.952

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.215	J	0.114	MDL	0.569	PQL	MG/KG	J	Z, Q, E
CADMIUM	0.283	J	0.0569	MDL	0.569	PQL	MG/KG	J	Z
CHROMIUM	25.6		0.227	MDL	0.569	PQL	MG/KG	J	Q
IRON	25100		11.4	MDL	114	PQL	MG/KG	J	A
MOLYBDENUM	0.324	J	0.0569	MDL	0.569	PQL	MG/KG	J	Z
SODIUM	82.5	J	56.9	MDL	114	PQL	MG/KG	J	Z
THALLIUM	0.291	J	0.0569	MDL	0.455	PQL	MG/KG	J	Z
Zirconium	5.69	U	2.84	MDL	5.69	PQL	MG/KG	UJ	Q

**Method Category:** SVOA  
**Method:** 8015B EFH **Matrix:** SO

Sample ID: SL-687-SA5C-SB-0.0-0.5 Collected: 4/16/2012 10:10:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C21-C30)	5.6	J	2.9	MDL	5.8	PQL	MG/KG	J	Z

Sample ID: SL-690-SA5C-SB-0.0-0.5 Collected: 4/16/2012 11:05:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C15-C20)	5.5	J	2.9	MDL	5.8	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D147

Laboratory: EMXT

EDD Filename: 12D147R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8082 **Matrix:** SO

Sample ID: SL-688-SA5C-SB-0.0-0.5 Collected: 4/16/2012 9:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	16	J	11	MDL	22	PQL	UG/KG	J	Z
AROCLOR 1260	16	J	11	MDL	22	PQL	UG/KG	J	Z

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-688-SA5C-SB-0.0-0.5 Collected: 4/16/2012 9:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	13	J	5.4	MDL	22	PQL	UG/KG	J	Z
BENZO(B)FLUORANTHENE	18	J	5.4	MDL	22	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	7.2	J	5.4	MDL	22	PQL	UG/KG	J	Z
BENZO(K)FLUORANTHENE	9.3	J	5.4	MDL	22	PQL	UG/KG	J	Z
CHRYSENE	9.4	J	5.4	MDL	22	PQL	UG/KG	J	Z
FLUORANTHENE	7.0	J	5.4	MDL	22	PQL	UG/KG	J	Z
PYRENE	9.3	J	5.4	MDL	22	PQL	UG/KG	J	Z

Sample ID: SL-690-SA5C-SB-0.0-0.5 Collected: 4/16/2012 11:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	12	J	8.7	MDL	35	PQL	UG/KG	J	Z
BENZO(B)FLUORANTHENE	25	J	8.7	MDL	35	PQL	UG/KG	J	Z
BENZO(K)FLUORANTHENE	11	J	8.7	MDL	35	PQL	UG/KG	J	Z
CHRYSENE	14	J	8.7	MDL	35	PQL	UG/KG	J	Z
FLUORANTHENE	16	J	8.7	MDL	35	PQL	UG/KG	J	Z
PYRENE	14	J	8.7	MDL	35	PQL	UG/KG	J	Z

Sample ID: SL-691-SA5C-SB-0.0-0.5 Collected: 4/16/2012 11:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	8.5	J	2.8	MDL	11	PQL	UG/KG	J	Z
BENZO(A)PYRENE	10	J	2.8	MDL	11	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/20/2012 8:55:07 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D147

Laboratory: EMXT

EDD Filename: 12D147R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-691-SA5C-SB-0.0-0.5 Collected: 4/16/2012 11:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	4.8	J	2.8	MDL	11	PQL	UG/KG	J	Z
BENZO(K)FLUORANTHENE	10	J	2.8	MDL	11	PQL	UG/KG	J	Z
INDENO(1,2,3-CD)PYRENE	4.3	J	2.8	MDL	11	PQL	UG/KG	J	Z
PHENANTHRENE	3.9	J	2.8	MDL	11	PQL	UG/KG	J	Z

Sample ID: SL-692-SA5C-SB-0.0-0.5 Collected: 4/16/2012 1:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
ACENAPHTHENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
ANTHRACENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
BENZO(A)PYRENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
BENZO(B)FLUORANTHENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
BENZO(E)PYRENE	6.0	U	3.0	MDL	6.0	PQL	UG/KG	UJ	S
BENZO(G,H,I)PERYLENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
BENZO(K)FLUORANTHENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
CHRYSENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
DIBENZO(A,H)ANTHRACENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
FLUORANTHENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
FLUORENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
INDENO(1,2,3-CD)PYRENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
NAPHTHALENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
PHENANTHRENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S
PYRENE	12	U	3.0	MDL	12	PQL	UG/KG	UJ	S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/20/2012 8:55:07 AM

ADR version 1.6.0.193

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D147

Laboratory: EMXT

EDD Filename: Prep12D147

eQAPP Name: CDM\_SSFL\_120730\_EMAX

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
*#	Professional Judgment
A	ICP Serial Dilution
E	Matrix Spike Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Precision
S	Surrogate/Tracer Recovery Lower Estimation
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/26/2012 7:22:11 AM

ADR version 1.6.0.194

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

12D147

# Surrogate Outlier Report

Lab Reporting Batch ID: 12D147

Laboratory: EMXT

EDD Filename: 12D147R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 8270C SIM

Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-687-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL	43.4	45.00-130.00	No Affected Compounds	
SL-692-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL Nitrobenzene-d5	32.1 34	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)
SL-693-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL	41.4	45.00-130.00	No Affected Compounds	

Project Name and Number: PHASE3 - SSFL PHASE 3

11/20/2012 8:48:51 AM

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Page 1 of 1

# Reporting Limit Outliers

Lab Reporting Batch ID: 12D147

Laboratory: EMXT

EDD Filename: 12D147R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method: 6020**  
**Matrix: SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-687-SA5C-SB-0.0-0.5	ANTIMONY	J	0.372	0.581	PQL	MG/KG	J (all detects)
	BORON	J	5.54	5.81	PQL	MG/KG	
	CADMIUM	J	0.295	0.581	PQL	MG/KG	
	MOLYBDENUM	J	0.347	0.581	PQL	MG/KG	
	SODIUM	J	76.5	116	PQL	MG/KG	
	THALLIUM	J	0.285	0.465	PQL	MG/KG	
SL-688-SA5C-SB-0.0-0.5	ANTIMONY	J	0.500	0.526	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.361	0.526	PQL	MG/KG	
	BORON	J	3.05	5.26	PQL	MG/KG	
	MOLYBDENUM	J	0.334	0.526	PQL	MG/KG	
	THALLIUM	J	0.236	0.421	PQL	MG/KG	
SL-689-SA5C-SB-0.0-0.5	ANTIMONY	J	0.487	0.572	PQL	MG/KG	J (all detects)
	BORON	J	5.16	5.72	PQL	MG/KG	
	CADMIUM	J	0.285	0.572	PQL	MG/KG	
	MOLYBDENUM	J	0.339	0.572	PQL	MG/KG	
	SODIUM	J	85.3	114	PQL	MG/KG	
	THALLIUM	J	0.288	0.457	PQL	MG/KG	
SL-690-SA5C-SB-0.0-0.5	BORON	J	3.04	5.77	PQL	MG/KG	J (all detects)
	SODIUM	J	88.5	115	PQL	MG/KG	
	THALLIUM	J	0.282	0.461	PQL	MG/KG	
SL-691-SA5C-SB-0.0-0.5	BERYLLIUM	J	0.439	0.556	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.221	0.556	PQL	MG/KG	
	MOLYBDENUM	J	0.426	0.556	PQL	MG/KG	
	SODIUM	J	80.4	111	PQL	MG/KG	
	THALLIUM	J	0.233	0.444	PQL	MG/KG	
SL-692-SA5C-SB-0.0-0.5	ANTIMONY	J	0.250	0.585	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.287	0.585	PQL	MG/KG	
	MOLYBDENUM	J	0.330	0.585	PQL	MG/KG	
	SODIUM	J	97.1	117	PQL	MG/KG	
	THALLIUM	J	0.312	0.468	PQL	MG/KG	
SL-693-SA5C-SB-0.0-0.5	ANTIMONY	J	0.215	0.569	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.283	0.569	PQL	MG/KG	
	MOLYBDENUM	J	0.324	0.569	PQL	MG/KG	
	SODIUM	J	82.5	114	PQL	MG/KG	
	THALLIUM	J	0.291	0.455	PQL	MG/KG	

**Method: 8015B EFH**  
**Matrix: SO**

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-687-SA5C-SB-0.0-0.5	EFH(C21-C30)	J	5.6	5.8	PQL	MG/KG	J (all detects)
SL-690-SA5C-SB-0.0-0.5	EFH(C15-C20)	J	5.5	5.8	PQL	MG/KG	J (all detects)

## Reporting Limit Outliers

Lab Reporting Batch ID: 12D147

Laboratory: EMXT

EDD Filename: 12D147R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 8082

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-688-SA5C-SB-0.0-0.5	AROCLOR 1254	J	16	22	PQL	UG/KG	J (all detects)
	AROCLOR 1260	J	16	22	PQL	UG/KG	

**Method:** 8270C SIM

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-688-SA5C-SB-0.0-0.5	BENZO(A)PYRENE	J	13	22	PQL	UG/KG	J (all detects)
	BENZO(B)FLUORANTHENE	J	18	22	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	7.2	22	PQL	UG/KG	
	BENZO(K)FLUORANTHENE	J	9.3	22	PQL	UG/KG	
	CHRYSENE	J	9.4	22	PQL	UG/KG	
	FLUORANTHENE	J	7.0	22	PQL	UG/KG	
SL-690-SA5C-SB-0.0-0.5	PYRENE	J	9.3	22	PQL	UG/KG	J (all detects)
	BENZO(A)PYRENE	J	12	35	PQL	UG/KG	
	BENZO(B)FLUORANTHENE	J	25	35	PQL	UG/KG	
	BENZO(K)FLUORANTHENE	J	11	35	PQL	UG/KG	
	CHRYSENE	J	14	35	PQL	UG/KG	
SL-691-SA5C-SB-0.0-0.5	FLUORANTHENE	J	16	35	PQL	UG/KG	J (all detects)
	PYRENE	J	14	35	PQL	UG/KG	
	BENZO(A)ANTHRACENE	J	8.5	11	PQL	UG/KG	
	BENZO(A)PYRENE	J	10	11	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	4.8	11	PQL	UG/KG	
	BENZO(K)FLUORANTHENE	J	10	11	PQL	UG/KG	
INDENO(1,2,3-CD)PYRENE	J	4.3	11	PQL	UG/KG	J (all detects)	
PHENANTHRENE	J	3.9	11	PQL	UG/KG		

LDC #: 28558B4  
 SDG #: 12D147  
 Laboratory: EMAX Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 ADR

Date: 11-5-12  
 Page: 1 of 1  
 Reviewer: [Signature]  
 2nd Reviewer: [Signature]

**METHOD:** Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	—	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	—	
VI.	Matrix Spike Analysis	SW	MS/D (6020 from radial)
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N	
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	SW	from radial (Fe: 11% 5/5)
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	SW	EB = EB-041912 (00175)

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet  
 ND = No compounds detected  
 R = Rinsate  
 FB = Field blank  
 D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

FB = FB-07112  
 C126064

Validated Samples: soil

1	SL-691-SA5C-SB-0.0-0.5	11		21		31	
2	SL-690-SA5C-SB-0.0-0.5	12		22		32	
3	SL-689-SA5C-SB-0.0-0.5	13		23		33	
4	SL-688-SA5C-SB-0.0-0.5	14		24		34	
5	SL-687-SA5C-SB-0.0-0.5	15		25		35	
6	SL-692-SA5C-SB-0.0-0.5	16		26		36	
7	SL-693-SA5C-SB-0.0-0.5	17		27		37	
8	SL-691-SA5C-SB-0.0-0.5MS	18		28		38	
9	SL-691-SA5C-SB-0.0-0.5MSD	19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** ug/L **Associated sample units:** mg/Kg  
**Sampling date:** 7/11/12 Soil factor applied 50x  
**Field blank type:** (circle one) Field Blank / Rinsate / Other: \_\_\_\_\_ Associated Samples: All

Analyte	Blank ID	Action Limit	No Qualifiers	Sample Identification				
	FB-071112							
Al	0.0296	7.4						
Cu	0.00102	0.255						
Ni	0.000204	0.051						

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
 Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# **SAMPLE DELIVERY GROUP**

**12E155**

## **Attachment I**

### **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
16-Apr-2012	SL-744A-SA5C-SB-1.5-2.5	D155-01W	N	3550B	8082	IV
16-Apr-2012	SL-744B-SA5C-SB-0.0-0.5	D155-02	N	3550B	8082	IV
16-Apr-2012	SL-744B-SA5C-SB-2.0-3.0	D155-03	N	3550B	8082	IV
16-Apr-2012	SL-744C-SA5C-SB-0.0-0.5	D155-04	N	3550B	8082	IV
16-Apr-2012	SL-744C-SA5C-SB-2.0-3.0	D155-05	N	3550B	8082	IV
17-Apr-2012	SL-680-SA5C-SB-0.0-0.5	D155-09	N	3550B	8015B EFH	III
17-Apr-2012	SL-680-SA5C-SB-0.0-0.5	D155-09	N	3550B	8082	IV
17-Apr-2012	SL-680-SA5C-SB-0.0-0.5	D155-09	N	7471A	7471A	III
17-Apr-2012	SL-680-SA5C-SB-0.0-0.5	D155-09	N	TOTAL	6020	III
17-Apr-2012	SL-680-SA5C-SB-0.0-0.5	D155-09W	N	3550B	8270C SIM	III
17-Apr-2012	SL-814-SA5C-SB-0.0-0.5	D155-08	FD	3550B	8015B EFH	III
17-Apr-2012	SL-814-SA5C-SB-0.0-0.5	D155-08	FD	3550B	8082	IV
17-Apr-2012	SL-814-SA5C-SB-0.0-0.5	D155-08	FD	7471A	7471A	III
17-Apr-2012	SL-814-SA5C-SB-0.0-0.5	D155-08	FD	GEN PREP	6850	IV
17-Apr-2012	SL-814-SA5C-SB-0.0-0.5	D155-08	FD	TOTAL	6020	III
17-Apr-2012	SL-814-SA5C-SB-0.0-0.5	D155-08W	FD	3550B	8270C SIM	III
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5	D155-07	N	3550B	8015B EFH	III
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5	D155-07	N	3550B	8082	IV
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5	D155-07	N	7471A	7471A	III
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5	D155-07	N	GEN PREP	6850	IV
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5	D155-07	N	TOTAL	6020	III
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5MS	D155-07M	MS	3550B	8015B EFH	III
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5MS	D155-07M	MS	3550B	8082	IV
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5MS	D155-07M	MS	3550B	8270C SIM	III
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5MS	D155-07M	MS	7471A	7471A	III
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5MS	D155-07M	MS	GEN PREP	6850	IV

III = EPA Level 3 Data Review  
IV = EPA Level 4 Data Validation

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5MS	D155-07M	MS	TOTAL	6020	III
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5MSD	D155-07S	MSD	3550B	8015B EFH	III
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5MSD	D155-07S	MSD	3550B	8082	IV
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5MSD	D155-07S	MSD	3550B	8270C SIM	III
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5MSD	D155-07S	MSD	7471A	7471A	III
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5MSD	D155-07S	MSD	GEN PREP	6850	IV
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5MSD	D155-07S	MSD	TOTAL	6020	III
17-Apr-2012	SL-514-SA5C-SB-0.0-0.5	D155-07W	N	3550B	8270C SIM	III
17-Apr-2012	SL-578-SA5C-SB-0.0-0.5	D155-06	N	3550B	8082	IV
17-Apr-2012	SL-578-SA5C-SB-0.0-0.5	D155-06	N	7471A	7471A	III
17-Apr-2012	SL-578-SA5C-SB-0.0-0.5	D155-06	N	GEN PREP	6850	IV
17-Apr-2012	SL-578-SA5C-SB-0.0-0.5	D155-06	N	TOTAL	6020	III
17-Apr-2012	SL-578-SA5C-SB-0.0-0.5	D155-06W	N	3550B	8270C SIM	III
17-Apr-2012	SL-577-SA5C-SB-0.0-0.5	D155-10	N	3550B	8082	IV
17-Apr-2012	SL-577-SA5C-SB-0.0-0.5	D155-10	N	7471A	7471A	III
17-Apr-2012	SL-577-SA5C-SB-0.0-0.5	D155-10	N	GEN PREP	6850	IV
17-Apr-2012	SL-577-SA5C-SB-0.0-0.5	D155-10	N	TOTAL	6020	III
17-Apr-2012	SL-577-SA5C-SB-0.0-0.5	D155-10W	N	3550B	8270C SIM	III
17-Apr-2012	SL-747-SA5C-SB-0.0-0.5	D155-12	N	3550B	8015B EFH	III
17-Apr-2012	SL-747-SA5C-SB-0.0-0.5	D155-12	N	3550B	8082	IV
17-Apr-2012	SL-747-SA5C-SB-0.0-0.5	D155-12	N	7471A	7471A	III
17-Apr-2012	SL-747-SA5C-SB-0.0-0.5	D155-12	N	TOTAL	6020	III
17-Apr-2012	SL-747-SA5C-SB-0.0-0.5	D155-12W	N	3550B	8270C SIM	III
17-Apr-2012	SL-581-SA5C-SB-0.0-0.5	D155-11	N	3550B	8015B EFH	III
17-Apr-2012	SL-581-SA5C-SB-0.0-0.5	D155-11	N	3550B	8082	IV
17-Apr-2012	SL-581-SA5C-SB-0.0-0.5	D155-11	N	7471A	7471A	III

III = EPA Level 3 Data Review  
IV = EPA Level 4 Data Validation

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
17-Apr-2012	SL-581-SA5C-SB-0.0-0.5	D155-11	N	GEN PREP	6850	IV
17-Apr-2012	SL-581-SA5C-SB-0.0-0.5	D155-11	N	GEN PREP	7199	III
17-Apr-2012	SL-581-SA5C-SB-0.0-0.5	D155-11	N	TOTAL	6020	III
17-Apr-2012	SL-581-SA5C-SB-0.0-0.5	D155-11W	N	3550B	8270C SIM	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** METALS  
**Method:** 6020 **Matrix:** SO

**Sample ID:** SL-514-SA5C-SB-0.0-0.5 **Collected:** 4/17/2012 10:15:00 **Analysis Type:** RES/TOT **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11000		13.9	MDL	116	PQL	MG/KG	J	Q
ANTIMONY	0.229	J	0.116	MDL	0.581	PQL	MG/KG	J	Z, Q
BARIUM	100		0.232	MDL	0.581	PQL	MG/KG	J	Q, E
BERYLLIUM	0.487	J	0.0581	MDL	0.581	PQL	MG/KG	J	Z
CADMIUM	0.306	J	0.0581	MDL	0.581	PQL	MG/KG	J	Z
CHROMIUM	15.4		0.232	MDL	0.581	PQL	MG/KG	J	FD
MANGANESE	286		0.290	MDL	0.581	PQL	MG/KG	J	E
NICKEL	10.3		0.232	MDL	0.581	PQL	MG/KG	J	FD
SILVER	0.0660	J	0.0581	MDL	0.581	PQL	MG/KG	J	Z
SODIUM	65.7	J	58.1	MDL	116	PQL	MG/KG	J	Z
THALLIUM	0.227	J	0.0581	MDL	0.465	PQL	MG/KG	J	Z
Zirconium	5.81	U	2.90	MDL	5.81	PQL	MG/KG	UJ	Q

**Sample ID:** SL-577-SA5C-SB-0.0-0.5 **Collected:** 4/17/2012 1:30:00 **Analysis Type:** RES/TOT **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14300		14.1	MDL	117	PQL	MG/KG	J	Q
ANTIMONY	0.246	J	0.117	MDL	0.586	PQL	MG/KG	J	Z, Q
BARIUM	101		0.234	MDL	0.586	PQL	MG/KG	J	Q, E
BORON	4.18	J	2.93	MDL	5.86	PQL	MG/KG	J	Z
MANGANESE	322		0.293	MDL	0.586	PQL	MG/KG	J	E
MOLYBDENUM	0.510	J	0.0586	MDL	0.586	PQL	MG/KG	J	Z
SILVER	0.517	J	0.0586	MDL	0.586	PQL	MG/KG	J	Z
SODIUM	76.6	J	58.6	MDL	117	PQL	MG/KG	J	Z
THALLIUM	0.241	J	0.0586	MDL	0.469	PQL	MG/KG	J	Z
Zirconium	5.86	U	2.93	MDL	5.86	PQL	MG/KG	UJ	Q

**Sample ID:** SL-578-SA5C-SB-0.0-0.5 **Collected:** 4/17/2012 11:35:00 **Analysis Type:** RES/TOT **Dilution:** 0.980

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	12900		13.5	MDL	112	PQL	MG/KG	J	Q
ANTIMONY	0.210	J	0.112	MDL	0.561	PQL	MG/KG	J	Z, Q

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/20/2012 9:02:50 AM

ADR version 1.6.0.193

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** METALS  
**Method:** 6020 **Matrix:** SO

Sample ID: SL-578-SA5C-SB-0.0-0.5 Collected: 4/17/2012 11:35:00 Analysis Type: RES/TOT Dilution: 0.980

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BARIUM	101		0.225	MDL	0.561	PQL	MG/KG	J	Q, E
BERYLLIUM	0.552	J	0.0561	MDL	0.561	PQL	MG/KG	J	Z
CADMIUM	0.294	J	0.0561	MDL	0.561	PQL	MG/KG	J	Z
MANGANESE	322		0.281	MDL	0.561	PQL	MG/KG	J	E
THALLIUM	0.222	J	0.0561	MDL	0.449	PQL	MG/KG	J	Z
Zirconium	5.61	U	2.81	MDL	5.61	PQL	MG/KG	UJ	Q

Sample ID: SL-581-SA5C-SB-0.0-0.5 Collected: 4/17/2012 2:40:00 Analysis Type: RES/TOT Dilution: 0.985

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	10800		13.4	MDL	111	PQL	MG/KG	J	Q
ANTIMONY	0.223	J	0.111	MDL	0.557	PQL	MG/KG	J	Z, Q
BARIUM	99.5		0.223	MDL	0.557	PQL	MG/KG	J	Q, E
BERYLLIUM	0.530	J	0.0557	MDL	0.557	PQL	MG/KG	J	Z
BORON	3.03	J	2.79	MDL	5.57	PQL	MG/KG	J	Z
CADMIUM	0.355	J	0.0557	MDL	0.557	PQL	MG/KG	J	Z
MANGANESE	351		0.279	MDL	0.557	PQL	MG/KG	J	E
SILVER	0.0571	J	0.0557	MDL	0.557	PQL	MG/KG	J	Z
SODIUM	73.9	J	55.7	MDL	111	PQL	MG/KG	J	Z
THALLIUM	0.228	J	0.0557	MDL	0.446	PQL	MG/KG	J	Z
Zirconium	5.57	U	2.79	MDL	5.57	PQL	MG/KG	UJ	Q

Sample ID: SL-680-SA5C-SB-0.0-0.5 Collected: 4/17/2012 9:05:00 Analysis Type: RES/TOT Dilution: 0.990

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15900		13.8	MDL	115	PQL	MG/KG	J	Q
ANTIMONY	1.20		0.115	MDL	0.574	PQL	MG/KG	J	Q
BARIUM	118		0.230	MDL	0.574	PQL	MG/KG	J	Q, E
CADMIUM	0.338	J	0.0574	MDL	0.574	PQL	MG/KG	J	Z
MANGANESE	320		0.287	MDL	0.574	PQL	MG/KG	J	E
MOLYBDENUM	0.513	J	0.0574	MDL	0.574	PQL	MG/KG	J	Z
SILVER	0.0775	J	0.0574	MDL	0.574	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-680-SA5C-SB-0.0-0.5      Collected: 4/17/2012 9:05:00      Analysis Type: RES/TOT      Dilution: 0.990

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.315	J	0.0574	MDL	0.459	PQL	MG/KG	J	Z
Zirconium	5.74	U	2.87	MDL	5.74	PQL	MG/KG	UJ	Q

Sample ID: SL-747-SA5C-SB-0.0-0.5      Collected: 4/17/2012 2:05:00      Analysis Type: RES/TOT      Dilution: 0.952

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	13600		13.5	MDL	113	PQL	MG/KG	J	Q
ANTIMONY	0.514	J	0.113	MDL	0.563	PQL	MG/KG	J	Z, Q
BARIUM	117		0.225	MDL	0.563	PQL	MG/KG	J	Q, E
BORON	3.12	J	2.81	MDL	5.63	PQL	MG/KG	J	Z
MANGANESE	345		0.281	MDL	0.563	PQL	MG/KG	J	E
SILVER	0.413	J	0.0563	MDL	0.563	PQL	MG/KG	J	Z
SODIUM	81.5	J	56.3	MDL	113	PQL	MG/KG	J	Z
THALLIUM	0.233	J	0.0563	MDL	0.450	PQL	MG/KG	J	Z
Zirconium	5.63	U	2.81	MDL	5.63	PQL	MG/KG	UJ	Q

Sample ID: SL-814-SA5C-SB-0.0-0.5      Collected: 4/17/2012 10:10:00      Analysis Type: RES/TOT      Dilution: 0.976

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	9630		13.6	MDL	113	PQL	MG/KG	J	Q
ANTIMONY	0.273	J	0.113	MDL	0.566	PQL	MG/KG	J	Z, Q
BARIUM	95.0		0.226	MDL	0.566	PQL	MG/KG	J	Q, E
BERYLLIUM	0.504	J	0.0566	MDL	0.566	PQL	MG/KG	J	Z
CADMIUM	0.290	J	0.0566	MDL	0.566	PQL	MG/KG	J	Z
CHROMIUM	28.7		0.226	MDL	0.566	PQL	MG/KG	J	FD
MANGANESE	276		0.283	MDL	0.566	PQL	MG/KG	J	E
NICKEL	17.3		0.226	MDL	0.566	PQL	MG/KG	J	FD
SILVER	0.0648	J	0.0566	MDL	0.566	PQL	MG/KG	J	Z
SODIUM	66.7	J	56.6	MDL	113	PQL	MG/KG	J	Z
THALLIUM	0.226	J	0.0566	MDL	0.453	PQL	MG/KG	J	Z
Zirconium	5.66	U	2.83	MDL	5.66	PQL	MG/KG	UJ	Q

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	7471A	<b>Matrix:</b> SO

Sample ID: SL-577-SA5C-SB-0.0-0.5      Collected: 4/17/2012 1:30:00      Analysis Type: RES/TOT      Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0594	J	0.0586	MDL	0.117	PQL	MG/KG	J	Z

Sample ID: SL-747-SA5C-SB-0.0-0.5      Collected: 4/17/2012 2:05:00      Analysis Type: RES/TOT      Dilution: 0.998

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0810	J	0.0590	MDL	0.118	PQL	MG/KG	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8015B EFH	<b>Matrix:</b> SO

Sample ID: SL-514-SA5C-SB-0.0-0.5      Collected: 4/17/2012 10:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C21-C30)	5.4	J	2.9	MDL	5.8	PQL	MG/KG	J	Z
EFH(C30-C40)	8.6	J	5.8	MDL	12	PQL	MG/KG	J	Z

Sample ID: SL-814-SA5C-SB-0.0-0.5      Collected: 4/17/2012 10:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C30-C40)	7.1	J	5.8	MDL	12	PQL	MG/KG	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8082	<b>Matrix:</b> SO

Sample ID: SL-680-SA5C-SB-0.0-0.5      Collected: 4/17/2012 9:05:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	12	J	12	MDL	23	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-514-SA5C-SB-0.0-0.5 Collected: 4/17/2012 10:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	3.0	J	2.9	MDL	12	PQL	UG/KG	J	Z
FLUORANTHENE	3.7	J	2.9	MDL	12	PQL	UG/KG	J	Z
PYRENE	3.0	J	2.9	MDL	12	PQL	UG/KG	J	Z

Sample ID: SL-577-SA5C-SB-0.0-0.5 Collected: 4/17/2012 1:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	7.4	J	2.9	MDL	12	PQL	UG/KG	J	Z
BENZO(A)PYRENE	9.5	J	2.9	MDL	12	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	3.3	J	2.9	MDL	12	PQL	UG/KG	J	Z
BENZO(K)FLUORANTHENE	5.8	J	2.9	MDL	12	PQL	UG/KG	J	Z
CHRYSENE	11	J	2.9	MDL	12	PQL	UG/KG	J	Z
INDENO(1,2,3-CD)PYRENE	3.3	J	2.9	MDL	12	PQL	UG/KG	J	Z
PHENANTHRENE	6.4	J	2.9	MDL	12	PQL	UG/KG	J	Z

Sample ID: SL-578-SA5C-SB-0.0-0.5 Collected: 4/17/2012 11:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
ANTHRACENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)PYRENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
BENZO(B)FLUORANTHENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
BENZO(E)PYRENE	5.7	U	2.9	MDL	5.7	PQL	UG/KG	UJ	S
BENZO(G,H,I)PERYLENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
BENZO(K)FLUORANTHENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
CHRYSENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
DIBENZO(A,H)ANTHRACENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
FLUORANTHENE	3.0	J	2.9	MDL	11	PQL	UG/KG	J	Z, S
FLUORENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-578-SA5C-SB-0.0-0.5      Collected: 4/17/2012 11:35:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
NAPHTHALENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
PHENANTHRENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S
PYRENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	S

Sample ID: SL-581-SA5C-SB-0.0-0.5      Collected: 4/17/2012 2:40:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	31	J	8.5	MDL	34	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	17	J	8.5	MDL	34	PQL	UG/KG	J	Z
BENZO(K)FLUORANTHENE	33	J	8.5	MDL	34	PQL	UG/KG	J	Z
FLUORANTHENE	29	J	8.5	MDL	34	PQL	UG/KG	J	Z

Sample ID: SL-680-SA5C-SB-0.0-0.5      Collected: 4/17/2012 9:05:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ACENAPHTHENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	4.7	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
BENZO(A)PYRENE	7.5	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
BENZO(B)FLUORANTHENE	13		2.9	MDL	12	PQL	UG/KG	J	S
BENZO(E)PYRENE	8.4		2.9	MDL	5.8	PQL	UG/KG	J	S
BENZO(G,H,I)PERYLENE	3.8	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
BENZO(K)FLUORANTHENE	4.4	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
CHRYSENE	7.7	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
DIBENZO(A,H)ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
FLUORANTHENE	17		2.9	MDL	12	PQL	UG/KG	J	S
FLUORENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
INDENO(1,2,3-CD)PYRENE	3.5	J	2.9	MDL	12	PQL	UG/KG	J	Z, S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-680-SA5C-SB-0.0-0.5 Collected: 4/17/2012 9:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
NAPHTHALENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
PHENANTHRENE	7.7	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
PYRENE	15		2.9	MDL	12	PQL	UG/KG	J	S

Sample ID: SL-747-SA5C-SB-0.0-0.5 Collected: 4/17/2012 2:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	8.4	J	3.0	MDL	12	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	4.7	J	3.0	MDL	12	PQL	UG/KG	J	Z
BENZO(K)FLUORANTHENE	6.5	J	3.0	MDL	12	PQL	UG/KG	J	Z
CHRYSENE	11	J	3.0	MDL	12	PQL	UG/KG	J	Z
INDENO(1,2,3-CD)PYRENE	3.9	J	3.0	MDL	12	PQL	UG/KG	J	Z
PHENANTHRENE	9.8	J	3.0	MDL	12	PQL	UG/KG	J	Z

Sample ID: SL-814-SA5C-SB-0.0-0.5 Collected: 4/17/2012 10:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ACENAPHTHENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(A)PYRENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(B)FLUORANTHENE	3.6	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
BENZO(E)PYRENE	5.8	U	2.9	MDL	5.8	PQL	UG/KG	UJ	S
BENZO(G,H,I)PERYLENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(K)FLUORANTHENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
CHRYSENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
DIBENZO(A,H)ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
FLUORANTHENE	4.9	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
FLUORENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-814-SA5C-SB-0.0-0.5

Collected: 4/17/2012 10:10:00

Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
NAPHTHALENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
PHENANTHRENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
PYRENE	4.3	J	2.9	MDL	12	PQL	UG/KG	J	Z, S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
E	Matrix Spike Precision
FD	Field Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Precision
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

12D155

# Surrogate Outlier Report

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 8270C SIM

Matrix: SO

<i>Sample ID (Analysis Type)</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
SL-578-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL Nitrobenzene-d5	36 33.9	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J (all detects) UJ (all non-detects)
SL-680-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL Nitrobenzene-d5	42.7 38.7	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)
SL-747-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL	44.2	45.00-130.00	No Affected Compounds	
SL-814-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL Nitrobenzene-d5	38.2 32.8	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method: 6020**

**Matrix: SO**

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-514-SA5C-SB-0.0-0.5MS (TOT) SL-514-SA5C-SB-0.0-0.5MSD (TOT) (SL-514-SA5C-SB-0.0-0.5 SL-577-SA5C-SB-0.0-0.5 SL-578-SA5C-SB-0.0-0.5 SL-581-SA5C-SB-0.0-0.5 SL-680-SA5C-SB-0.0-0.5 SL-747-SA5C-SB-0.0-0.5 SL-814-SA5C-SB-0.0-0.5)	ALUMINUM TITANIUM	- 178	135 250	75.00-125.00 75.00-125.00	- -	ALUMINUM TITANIUM	J (all detects)  Ti, No Qual, >4x
SL-514-SA5C-SB-0.0-0.5MS (TOT) SL-514-SA5C-SB-0.0-0.5MSD (TOT) (SL-514-SA5C-SB-0.0-0.5 SL-577-SA5C-SB-0.0-0.5 SL-578-SA5C-SB-0.0-0.5 SL-581-SA5C-SB-0.0-0.5 SL-680-SA5C-SB-0.0-0.5 SL-747-SA5C-SB-0.0-0.5 SL-814-SA5C-SB-0.0-0.5)	ANTIMONY BARIUM MANGANESE Zirconium	74 231 1561 43	- - 149 41	75.00-125.00 75.00-125.00 75.00-125.00 75.00-125.00	- 22 (20.00) 77 (20.00) -	ANTIMONY BARIUM MANGANESE Zirconium	J(all detects) UJ(all non-detects)  Mn, No Qual %R >4x

# Field Duplicate RPD Report

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: Prep12D155

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 6020

**Matrix:** SO

Analyte	Concentration (MG/KG)		Sample RPD	eQAPP RPD	Flag
	SL-514-SA5C-SB-0.0-0.5 (TOT)	SL-814-SA5C-SB-0.0-0.5 (TOT)			
ALUMINUM	11000	9630	13	50.00	No Qualifiers Applied
ANTIMONY	0.229	0.273	18	50.00	
ARSENIC	3.35	3.32	1	50.00	
BARIUM	100	95.0	5	50.00	
BERYLLIUM	0.487	0.504	3	50.00	
CADMIUM	0.306	0.290	5	50.00	
CALCIUM	2210	2130	4	50.00	
COBALT	5.76	5.77	0	50.00	
COPPER	9.87	9.64	2	50.00	
IRON	14400	14300	1	50.00	
LEAD	13.7	14.1	3	50.00	
LITHIUM	9.05	8.83	2	50.00	
MAGNESIUM	2770	2480	11	50.00	
MANGANESE	286	276	4	50.00	
MOLYBDENUM	0.667	0.849	24	50.00	
PHOSPHORUS	196	189	4	50.00	
POTASSIUM	2670	2500	7	50.00	
SILVER	0.0660	0.0648	2	50.00	
SODIUM	65.7	66.7	2	50.00	
STRONTIUM	22.7	22.0	3	50.00	
THALLIUM	0.227	0.226	0	50.00	
TITANIUM	652	630	3	50.00	
VANADIUM	30.3	29.7	2	50.00	
ZINC	42.4	40.4	5	50.00	
CHROMIUM	15.4	28.7	60	50.00	J(all detects)
NICKEL	10.3	17.3	51	50.00	

**Method:** 8015B EFH

**Matrix:** SO

Analyte	Concentration (MG/KG)		Sample RPD	eQAPP RPD	Flag
	SL-514-SA5C-SB-0.0-0.5	SL-814-SA5C-SB-0.0-0.5			
EFH(C21-C30)	5.4	7.6	34	50.00	No Qualifiers Applied
EFH(C30-C40)	8.6	7.1	19	50.00	

**Method:** 8270C SIM

**Matrix:** SO

Analyte	Concentration (UG/KG)		Sample RPD	eQAPP RPD	Flag
	SL-514-SA5C-SB-0.0-0.5	SL-814-SA5C-SB-0.0-0.5			
BENZO(B)FLUORANTHENE	3.0	3.6	18	50.00	No Qualifiers Applied
FLUORANTHENE	3.7	4.9	28	50.00	
PYRENE	3.0	4.3	36	50.00	

**Method:** 9045D

**Matrix:** SO

Analyte	Concentration (PH UNIT)		Sample RPD	eQAPP RPD	Flag
	SL-514-SA5C-SB-0.0-0.5	SL-814-SA5C-SB-0.0-0.5			
PH	7.04	6.90	2		No Qualifiers Applied

# Reporting Limit Outliers

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 6020

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-514-SA5C-SB-0.0-0.5	ANTIMONY	J	0.229	0.581	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.487	0.581	PQL	MG/KG	
	CADMIUM	J	0.306	0.581	PQL	MG/KG	
	SILVER	J	0.0660	0.581	PQL	MG/KG	
	SODIUM	J	65.7	116	PQL	MG/KG	
	THALLIUM	J	0.227	0.465	PQL	MG/KG	
SL-577-SA5C-SB-0.0-0.5	ANTIMONY	J	0.246	0.586	PQL	MG/KG	J (all detects)
	BORON	J	4.18	5.86	PQL	MG/KG	
	MOLYBDENUM	J	0.510	0.586	PQL	MG/KG	
	SILVER	J	0.517	0.586	PQL	MG/KG	
	SODIUM	J	76.6	117	PQL	MG/KG	
	THALLIUM	J	0.241	0.469	PQL	MG/KG	
SL-578-SA5C-SB-0.0-0.5	ANTIMONY	J	0.210	0.561	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.552	0.561	PQL	MG/KG	
	CADMIUM	J	0.294	0.561	PQL	MG/KG	
	THALLIUM	J	0.222	0.449	PQL	MG/KG	
SL-581-SA5C-SB-0.0-0.5	ANTIMONY	J	0.223	0.557	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.530	0.557	PQL	MG/KG	
	BORON	J	3.03	5.57	PQL	MG/KG	
	CADMIUM	J	0.355	0.557	PQL	MG/KG	
	SILVER	J	0.0571	0.557	PQL	MG/KG	
	SODIUM	J	73.9	111	PQL	MG/KG	
	THALLIUM	J	0.228	0.446	PQL	MG/KG	
SL-680-SA5C-SB-0.0-0.5	CADMIUM	J	0.338	0.574	PQL	MG/KG	J (all detects)
	MOLYBDENUM	J	0.513	0.574	PQL	MG/KG	
	SILVER	J	0.0775	0.574	PQL	MG/KG	
	THALLIUM	J	0.315	0.459	PQL	MG/KG	
SL-747-SA5C-SB-0.0-0.5	ANTIMONY	J	0.514	0.563	PQL	MG/KG	J (all detects)
	BORON	J	3.12	5.63	PQL	MG/KG	
	SILVER	J	0.413	0.563	PQL	MG/KG	
	SODIUM	J	81.5	113	PQL	MG/KG	
	THALLIUM	J	0.233	0.450	PQL	MG/KG	
SL-814-SA5C-SB-0.0-0.5	ANTIMONY	J	0.273	0.566	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.504	0.566	PQL	MG/KG	
	CADMIUM	J	0.290	0.566	PQL	MG/KG	
	SILVER	J	0.0648	0.566	PQL	MG/KG	
	SODIUM	J	66.7	113	PQL	MG/KG	
	THALLIUM	J	0.226	0.453	PQL	MG/KG	

**Method:** 7471A

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-577-SA5C-SB-0.0-0.5	MERCURY	J	0.0594	0.117	PQL	MG/KG	J (all detects)
SL-747-SA5C-SB-0.0-0.5	MERCURY	J	0.0810	0.118	PQL	MG/KG	J (all detects)

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Reporting Limit Outliers

Lab Reporting Batch ID: 12D155

Laboratory: EMXT

EDD Filename: 12D155R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 8015B EFH

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-514-SA5C-SB-0.0-0.5	EFH(C21-C30)	J	5.4	5.8	PQL	MG/KG	J (all detects)
	EFH(C30-C40)	J	8.6	12	PQL	MG/KG	
SL-814-SA5C-SB-0.0-0.5	EFH(C30-C40)	J	7.1	12	PQL	MG/KG	J (all detects)

**Method:** 8082

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-680-SA5C-SB-0.0-0.5	AROCLOR 1254	J	12	23	PQL	UG/KG	J (all detects)

**Method:** 8270C SIM

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-514-SA5C-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	3.0	12	PQL	UG/KG	J (all detects)
	FLUORANTHENE	J	3.7	12	PQL	UG/KG	
	PYRENE	J	3.0	12	PQL	UG/KG	
SL-577-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	7.4	12	PQL	UG/KG	J (all detects)
	BENZO(A)PYRENE	J	9.5	12	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	3.3	12	PQL	UG/KG	
	BENZO(K)FLUORANTHENE	J	5.8	12	PQL	UG/KG	
	CHRYSENE	J	11	12	PQL	UG/KG	
	INDENO(1,2,3-CD)PYRENE	J	3.3	12	PQL	UG/KG	
PHENANTHRENE	J	6.4	12	PQL	UG/KG		
SL-578-SA5C-SB-0.0-0.5	FLUORANTHENE	J	3.0	11	PQL	UG/KG	J (all detects)
SL-581-SA5C-SB-0.0-0.5	BENZO(A)PYRENE	J	31	34	PQL	UG/KG	J (all detects)
	BENZO(G,H,I)PERYLENE	J	17	34	PQL	UG/KG	
	BENZO(K)FLUORANTHENE	J	33	34	PQL	UG/KG	
	FLUORANTHENE	J	29	34	PQL	UG/KG	
SL-680-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	4.7	12	PQL	UG/KG	J (all detects)
	BENZO(A)PYRENE	J	7.5	12	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	3.8	12	PQL	UG/KG	
	BENZO(K)FLUORANTHENE	J	4.4	12	PQL	UG/KG	
	CHRYSENE	J	7.7	12	PQL	UG/KG	
	INDENO(1,2,3-CD)PYRENE	J	3.5	12	PQL	UG/KG	
PHENANTHRENE	J	7.7	12	PQL	UG/KG		
SL-747-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	8.4	12	PQL	UG/KG	J (all detects)
	BENZO(G,H,I)PERYLENE	J	4.7	12	PQL	UG/KG	
	BENZO(K)FLUORANTHENE	J	6.5	12	PQL	UG/KG	
	CHRYSENE	J	11	12	PQL	UG/KG	
	INDENO(1,2,3-CD)PYRENE	J	3.9	12	PQL	UG/KG	
	PHENANTHRENE	J	9.8	12	PQL	UG/KG	
SL-814-SA5C-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	3.6	12	PQL	UG/KG	J (all detects)
	FLUORANTHENE	J	4.9	12	PQL	UG/KG	
	PYRENE	J	4.3	12	PQL	UG/KG	

Project Name and Number: PHASE3 - SSFL PHASE 3

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LDC #: 28558C4  
 SDG #: 12D155  
 Laboratory: EMAX Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
**ADR**

Date: 1/5/12  
 Page: 1 of 1  
 Reviewer: [Signature]  
 2nd Reviewer: [Signature]

**METHOD:** Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	-	Sampling dates:
II.	ICP/MS Tune	-	
III.	Calibration	-	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	-	
VI.	Matrix Spike Analysis	SW	MS/D (Mn, Ti > 4x) <sup>→ (RPO out)</sup>
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EB = EB-041912 (100%)

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

FB = FB-071112  
 (126064)

Validated Samples: SW

1	SL-578-SA5C-SB-0.0-0.5	11		21		31	
2	SL-514-SA5C-SB-0.0-0.5	12		22		32	
3	SL-814-SA5C-SB-0.0-0.5	13		23		33	
4	SL-680-SA5C-SB-0.0-0.5	14		24		34	
5	SL-577-SA5C-SB-0.0-0.5	15		25		35	
6	SL-581-SA5C-SB-0.0-0.5	16		26		36	
7	SL-747-SA5C-SB-0.0-0.5	17		27		37	
8	SL-514-SA5C-SB-0.0-0.5MS	18		28		38	
9	SL-514-SA5C-SB-0.0-0.5MSD	19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

VALIDATION FINDINGS WORKSHEET  
Field Blanks

METHOD: Trace Metals (EPA SW846 6010B/7000)

Blank units: mg/K Associated sample units: mg/Kg  
Sampling date: 4/19/12 Soil factor applied 50x  
Field blank type: (circle one) Field Blank / Rinsate / Other:

Associated Samples: All

Analyte		Blank ID	Action Limit	No Qualifiers	Sample Identification															
		EB-041912																		
Ba		0.000878	0.2195																	
Ca		0.0461	11.525																	
Cu		0.000506	0.1265																	

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# VALIDATION FINDINGS WORKSHEET

## Field Blanks

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** ug/L **Associated sample units:** mg/Kg  
**Sampling date:** 7/11/12 **Soil factor applied:** 50x  
**Field blank type:** (circle one) Field Blank / Rinsate / Other:

Associated Samples: All

Sample Identification		
Analyte	Blank ID	Action Limit No Qualifiers
	FB-071112	
Al	0.0296	7.4
Cu	0.00102	0.255
Ni	0.000204	0.051

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
 Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

## **Enclosure II**

### **Level IV Validation Reports**

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Santa Susana Field Laboratory  
**Collection Date:** April 17, 2012  
**LDC Report Date:** October 23, 2012  
**Matrix:** Soil  
**Parameters:** Polychlorinated Biphenyls  
**Validation Level:** Level IV  
**Laboratory:** EMAX Laboratories, Inc.  
**Sample Delivery Group (SDG):** 12D155

**Sample Identification**

SL-744A-SA5C-SB-1.5-2.5  
SL-744B-SA5C-SB-0.0-0.5  
SL-744B-SA5C-SB-2.0-3.0  
SL-744C-SA5C-SB-0.0-0.5  
SL-744C-SA5C-SB-2.0-3.0  
SL-578-SA5C-SB-0.0-0.5  
SL-514-SA5C-SB-0.0-0.5  
SL-814-SA5C-SB-0.0-0.5  
SL-680-SA5C-SB-0.0-0.5  
SL-577-SA5C-SB-0.0-0.5  
SL-581-SA5C-SB-0.0-0.5  
SL-747-SA5C-SB-0.0-0.5  
SL-514-SA5C-SB-0.0-0.5MS  
SL-514-SA5C-SB-0.0-0.5MSD

## Introduction

This data review covers 14 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8082 for Polychlorinated Biphenyls.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. GC/ECD Instrument Performance Check**

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

## **III. Initial Calibration**

Initial calibration of multicomponent compounds was performed for the primary (quantitation) column as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

Retention time windows were evaluated and considered technically acceptable.

## **IV. Continuing Calibration**

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 20.0% QC limits.

The percent difference (%D) of the second source calibration standard were less than or equal to 20.0% for all compounds.

Retention times (RT) of all compounds in the calibration standards were within QC limits.

## **V. Blanks**

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyl contaminants were found in the method blanks.

Sample EB-041912 (from SDG 12D175) was identified as an equipment blank. No polychlorinated biphenyl contaminants were found.

Sample FB-071112 (from SDG 12G064) was identified as a field blank. No polychlorinated biphenyl contaminants were found.

## VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

## VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## IX. Regional Quality Assurance and Quality Control

Not applicable.

## X. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

## XI. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

## XII. Target Compound Identification

All target compound identifications were within validation criteria.

## XIII. Compound Quantitation and Reported RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG 12D155	All compounds reported below the RL.	J (all detects)	A

## XIV. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

## **XV. Field Duplicates**

Samples SL-514-SA5C-SB-0.0-0.5 and SL-814-SA5C-SB-0.0-0.5 were identified as field duplicates. No polychlorinated biphenyls were detected in any of the samples.

**Santa Susana Field Laboratory  
 Polychlorinated Biphenyls - Data Qualification Summary - SDG 12D155**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
12D155	SL-744A-SA5C-SB-1.5-2.5 SL-744B-SA5C-SB-0.0-0.5 SL-744B-SA5C-SB-2.0-3.0 SL-744C-SA5C-SB-0.0-0.5 SL-744C-SA5C-SB-2.0-3.0 SL-578-SA5C-SB-0.0-0.5 SL-514-SA5C-SB-0.0-0.5 SL-814-SA5C-SB-0.0-0.5 SL-680-SA5C-SB-0.0-0.5 SL-577-SA5C-SB-0.0-0.5 SL-581-SA5C-SB-0.0-0.5 SL-747-SA5C-SB-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory  
 Polychlorinated Biphenyls - Laboratory Blank Data Qualification Summary - SDG 12D155**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory  
 Polychlorinated Biphenyls - Field Blank Data Qualification Summary - SDG 12D155**

No Sample Data Qualified in this SDG

**METHOD:** GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 4/17/12
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	A	% PSD ≤ 20
IV.	Continuing calibration/ICV	A	ICV/CCV ≤ 20
V.	Blanks	Δ	
VI.	Surrogate spikes	Δ	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
X.	Florisil cartridge check	N	
XI.	GPC Calibration	N	
XII.	Target compound identification	Δ	
XIII.	Compound quantitation/RL/LOQ/LODs	Δ	
XIV.	Overall assessment of data	Δ	
XV.	Field duplicates	ND	8, 7
XVI.	Field blanks	ND	EB = EB-041912 (SDG 12D175) FB = 071112 (SDG 12G064)

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples:

Sells

1	SL-744A-SA5C-SB-1.5-2.5	T1	SL-581-SA5C-SB-0.0-0.5	21	MBLK15	31	
2	SL-744B-SA5C-SB-0.0-0.5	12	SL-747-SA5C-SB-0.0-0.5	22		32	
3	SL-744B-SA5C-SB-2.0-3.0	13	SL-514-SA5C-SB-0.0-0.5MS	23		33	
4	SL-744C-SA5C-SB-0.0-0.5	14	SL-514-SA5C-SB-0.0-0.5MSD	24		34	
5	SL-744C-SA5C-SB-2.0-3.0	15		25		35	
6	SL-578-SA5C-SB-0.0-0.5	16		26		36	
7	SL-514-SA5C-SB-0.0-0.5	17		27		37	
8	SL-814-SA5C-SB-0.0-0.5	18		28		38	
9	SL-680-SA5C-SB-0.0-0.5	19		29		39	
10	SL-577-SA5C-SB-0.0-0.5	20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

LDC #: 78558236  
 SDG #: per owner

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2  
 Reviewer: FI  
 2nd Reviewer: C

Method: GC HPLC

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cooler temperature criteria was met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>II. Initial calibration</b>				
Did the laboratory perform a 5 point calibration prior to sample analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent relative standard deviations (%RSD) < 20%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a curve fit used for evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Did the initial calibration meet the curve fit acceptance criteria of > 0.990?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the RT windows properly established?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>IV. Continuing calibration</b>				
Was a continuing calibration analyzed daily?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all percent differences (%D) < 20%.0 or percent recoveries 80-120%?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all the retention times within the acceptance windows?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>V. Blanks</b>				
Was a method blank associated with every sample in this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a method blank analyzed for each matrix and concentration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>VI. Surrogate spikes</b>				
Were all surrogate %R within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>VII. Matrix spike/Matrix spike duplicates</b>				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was a MS/MSD analyzed every 20 samples of each matrix?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>VIII. Laboratory control samples</b>				
Was an LCS analyzed for this SDG?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>IX. Regional Quality Assurance and Quality Control</b>				
Were performance evaluation (PE) samples performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

LDC #: 28558C3b  
 SDG #: per canal

VALIDATION FINDINGS CHECKLIST

Page: 2 of 2  
 Reviewer: FJ  
 2nd Reviewer: A

Validation Area	Yes	No	NA	Findings/Comments
<b>X. Target compound identification</b>				
Were the retention times of reported detects within the RT windows?	/			
<b>XI. Compound quantitation/CRQLs</b>				
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
<b>XII. System performance</b>				
System performance was found to be acceptable.	/			
<b>XIII. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	/			
<b>XIV. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.	/	<i>AA</i>		
Target compounds were detected in the field duplicates.		/	<i>AA</i>	
<b>XV. Field blanks</b>				
Field blanks were identified in this SDG.	/	<i>AA</i>		
Target compounds were detected in the field blanks.		/	<i>AA</i>	

**VALIDATION FINDINGS WORKSHEET**  
**Initial Calibration Calculation Verification**

LDC #: 28558036  
 SDG #: pk wach

Page: 1 of 1  
 Reviewer: FD  
 2nd Reviewer: [Signature]

METHOD: GC ✓ HPLC \_\_\_\_\_

The calibration Factor (CF), average CF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

- CF = A/C
- average CF = sum of the CF/number of standards
- %RSD =  $100 * (S/X)$
- A = Area of compound,
- C = Concentration of compound,
- S = Standard deviation of the CF
- X = Mean of the CFs

#	Standard ID	Calibration Date	Compound	Reported		Recalculated		Reported		Recalculated	
				CF (SD std)	CF (SD std)	Average CF (Initial)	Average CF (Initial)	%RSD	%RSD		
1	1CAL 2B-M-1	2/29/12	PCB 1260-1	3697.26	3697.26	3671.742	3671.742	7.5	7.5	7.5	
2	2B-M-2	L	↓	9860	9860	16079.1	16079.1	18.5	18.5	18.5	
3											
4											

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

**VALIDATION FINDINGS WORKSHEET**  
**Continuing Calibration Results Verification**

METHOD: GC \_\_\_\_\_ HPLC \_\_\_\_\_

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference =  $100 \cdot (\text{ave. CF} - \text{CF}) / \text{ave. CF}$  Where: ave. CF = initial calibration average CF  
 CF = continuing calibration CF  
 A = Area of compound  
 C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ical)/ CCV Conc.	Reported		Recalculated	
					CF/Conc. CCV	%D	CF/Conc. CCV	%D
1	KP27002A	4/27/12	PUB 126 U ZB-M-1	522	523.909	5	5	
			ZBM-2	522	524.140	13	13	
2	KP27030A	4/24/12	J	522	525.844	5	5	
				522	522.938	5	5	
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 28558C3b  
 SDG #: see cover

**VALIDATION FINDINGS WORKSHEET**  
**Surrogate Results Verification**

Page: 6 of 7  
 Reviewer: FT  
 2nd reviewer: [Signature]

METHOD: GC HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery:  $SF/SS * 100$   
 Where: SF = Surrogate Found  
 SS = Surrogate Spiked

Sample ID: #9

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	
PCB	ch A	40	36.99	92.5	72.5	0
TCMX	J	↓	49.39	124	124	0

Sample ID: \_\_\_\_\_

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

Sample ID: \_\_\_\_\_

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery		Percent Difference
				Reported	Recalculated	

**VALIDATION FINDINGS WORKSHEET**  
**Matrix Spike/Matrix Spike Duplicates Results Verification**

**METHOD:** GC HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

$\% \text{Recovery} = 100 * (\text{SSC} - \text{SC}) / \text{SA}$  Where SSC = Spiked sample concentration SC = Sample concentration  
 $\text{RPD} = ((\text{SSCMS} - \text{SSCMSD}) * 2) / (\text{SSCMS} + \text{SSCMSD}) * 100$  MS = Matrix spike added MSD = Matrix spike duplicate  
 SA = Spike added MS = Matrix spike

MS/MSD samples: 13 + 14

Compound	Spike Added (ug/kg)		Sample Conc. (ug/kg)	Spike Sample Concentration (ug/kg)		Matrix spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Gasoline (8015)											
Diesel (8015)											
Benzene (8021B)											
Methane (RSK-175)											
2,4-D (8151)											
Dinoseb (8151)											
Naphthalene (8310)											
Anthracene (8310)											
HMX (8330)											
2,4,6-Trinitrotoluene (8330)											
<u>Aroclor 1260</u>	<u>194</u>	<u>194</u>	<u>ND</u>	<u>265</u>	<u>271</u>	<u>277</u>	<u>137</u>	<u>140</u>	<u>140</u>	<u>2</u>	<u>2</u>

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

METHOD: GC HPLC

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery =  $100 \cdot (SSC-SC)/SA$   
 RPD =  $|(LCS - LCSD) / \frac{1}{2}(LCS + LCSD)|$

Where: SSC = Spiked sample concentration  
 SA = Spike added  
 LCS = Laboratory control sample percent recovery

SC = Concentration  
 LCSD = Laboratory control sample duplicate percent recovery

LCS/LCSD samples: LCS/DP

Compound	Spike Added (ug/kg)		Spiked Sample Concentration (ug/kg)		LCS		LCSD		LCS/LCSD	
	LCS	LCSD	LCS	LCSD	Percent Recovery	Recalc.	Percent Recovery	Recalc.	Reported	Recalc.
Gasoline (8015)										
Diesel (8015)										
Benzene (8021B)										
Methane (RSK-175)										
2,4-D (8151)										
Dinoseb (8151)										
Naphthalene (8310)										
Anthracene (8310)										
HMX (8330)										
2,4,6-Trinitrotoluene (8330)										
1260	167	167	162	162	97	97	97	97	0	0

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

**VALIDATION FINDINGS WORKSHEET**  
**Sample Calculation Verification**

LDC #: 28558 e3b  
 SDG #: pu goney

METHOD:  GC  HPLC

Y/N N/A Were all reported results recalculated and verified for all level IV samples?  
Y/N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration =  $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$  Example: \_\_\_\_\_  
 Sample ID: # 9 Compound Name: 1254

Concentration = 31.60 (10)  
(30.03) (0.862)  
12 ug/kg

A= Area or height of the compound to be measured  
 Fv= Final Volume of extract  
 Df= Dilution Factor  
 RF= Average response factor of the compound  
 in the initial calibration  
 Vs= Initial volume of the sample  
 Ws= Initial weight of the sample  
 %S= Percent Solid

#	Sample ID	Compound	Reported Concentrations	Recalculated Results Concentrations	Qualifications
	1254-1 = 3/105.2		1254-1 =	7.20	
	43/2.5		- 2 =	7.62	
			- 3 =	6.27	
	= 7.20		- 4 =	3.57	
			- 5 =	6.95	
				31.60	

Comments: \_\_\_\_\_

**Laboratory Data Consultants, Inc.  
Data Validation Report**

**Project/Site Name:** Santa Susana Field Laboratory  
**Collection Date:** April 17, 2012  
**LDC Report Date:** October 23, 2012  
**Matrix:** Soil  
**Parameters:** Perchlorate  
**Validation Level:** Level IV  
**Laboratory:** EMAX Laboratories, Inc.  
**Sample Delivery Group (SDG):** 12D155

**Sample Identification**

SL-578-SA5C-SB-0.0-0.5  
SL-514-SA5C-SB-0.0-0.5  
SL-814-SA5C-SB-0.0-0.5  
SL-577-SA5C-SB-0.0-0.5  
SL-581-SA5C-SB-0.0-0.5  
SL-514-SA5C-SB-0.0-0.5MS  
SL-514-SA5C-SB-0.0-0.5MSD

## Introduction

This data review covers 7 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6850 for Perchlorate.

This review follows the Quality Assurance Project Plan for Santa Susana Field Laboratory (SSFL), RCRA Facility Investigation, Surficial Media Operable Unit (March 2009, Revision 4) and a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

## **I. Technical Holding Times**

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

## **II. GC/MS Instrument Performance Check**

Instrument performance was checked at 12 hour intervals. All ion abundance requirements were met.

## **III. Initial Calibration**

Initial calibration was performed using required standard concentrations.

A curve fit, based on the initial calibration, was established for quantitation. The coefficient of determination ( $r^2$ ) was greater than or equal to 0.990 .

## **IV. Continuing Calibration**

Continuing calibration was performed at the required frequencies.

All of the continuing calibration percent differences (%D) between the initial calibration RRF and the continuing calibration RRF were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the second source calibration standard were less than or equal to 15.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The percent differences (%D) of the limit of detection verification (LODV) calibration standard were less than or equal to 50.0% for perchlorate.

## **V. Blanks**

Method blanks were reviewed for each matrix as applicable. No perchlorate was found in the method blanks.

Sample EB-041912 (from SDG 12D175) was identified as an equipment blank. No perchlorate was found.

Sample FB-071112 (from SDG 12G064) was identified as a field blank. No perchlorate was found.

## **VI. Surrogate Spikes**

Surrogate spikes were not required by the method.

## VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

## IX. Regional Quality Assurance and Quality Control

Not applicable.

## X. Internal Standards

All internal standard areas and retention times were within QC limits.

## XI. Target Compound Identifications

All target compound identifications were within validation criteria.

## XII. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria.

All compounds reported below the RL were qualified as follows:

Sample	Finding	Flag	A or P
All samples in SDG 12D155	All compounds reported below the RL.	J (all detects)	A

## XIII. Tentatively Identified Compounds (TICs)

Tentatively identified compounds were not reported by the laboratory.

## XIV. System Performance

The system performance was acceptable.

## XV. Overall Assessment

Data flags are summarized at the end of this report if data has been qualified.

## **XVI. Field Duplicates**

Samples SL-514-SA5C-SB-0.0-0.5 and SL-814-SA5C-SB-0.0-0.5 were identified as field duplicates. No perchlorate was detected in any of the samples.

**Santa Susana Field Laboratory  
Perchlorate - Data Qualification Summary - SDG 12D155**

SDG	Sample	Compound	Flag	A or P	Reason (Code)
12D155	SL-578-SA5C-SB-0.0-0.5 SL-514-SA5C-SB-0.0-0.5 SL-814-SA5C-SB-0.0-0.5 SL-577-SA5C-SB-0.0-0.5 SL-581-SA5C-SB-0.0-0.5	All compounds reported below the RL.	J (all detects)	A	Compound quantitation and RLs (Z)

**Santa Susana Field Laboratory  
Perchlorate - Laboratory Blank Data Qualification Summary - SDG 12D155**

No Sample Data Qualified in this SDG

**Santa Susana Field Laboratory  
Perchlorate - Field Blank Data Qualification Summary - SDG 12D155**

No Sample Data Qualified in this SDG

**METHOD:** LC/MS Perchlorate (EPA SW846 Method 6850)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 4/17/12
II.	GC/MS Instrument performance check	Δ	
III.	Initial calibration	A	1, 2
IV.	Continuing calibration/ICV	Δ	104/cw ≤ 15/50      LODV ≤ 50
V.	Blanks	A	
VI.	Surrogate spikes	N	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LC5/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	Δ	
XI.	Target compound identification	Δ	
XII.	Compound quantitation/RL/LOQ/LODs	Δ	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	Δ	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	ND	2, 3
XVII.	Field blanks	ND	EB = EB-041912 (SDG 12D175) FB = FB-071112 (SDG # 129064)

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

Validated Samples: 5014

6	1	SL-578-SA5C-SB-0.0-0.5	11	PLD 004SB	21	31
7	2	SL-514-SA5C-SB-0.0-0.5	12		22	32
8	3	SL-814-SA5C-SB-0.0-0.5	13		23	33
10	4	SL-577-SA5C-SB-0.0-0.5	14		24	34
11	5	SL-581-SA5C-SB-0.0-0.5	15		25	35
	6	SL-514-SA5C-SB-0.0-0.5MS	16		26	36
	7	SL-514-SA5C-SB-0.0-0.5MSD	17		27	37
	8		18		28	38
	9		19		29	39
	10		20		30	40

Method: Semivolatiles (EPA SW 846 Method 8270C) 6850

Validation Area	Yes	No	NA	Findings/Comments
<b>I. Technical holding times</b>				
All technical holding times were met.	/			
Cooler temperature criteria was met.	/			
<b>II. GC/MS Instrument performance check</b>				
Were the DFTPP performance results reviewed and found to be within the specified criteria?	/			
Were all samples analyzed within the 12 hour clock criteria?	/			
<b>III. Initial calibration</b>				
Did the laboratory perform a 5 point calibration prior to sample analysis?	/			
Were all percent relative standard deviations (%RSD) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			/	
Was a curve fit used for evaluation?	/			
Did the initial calibration meet the curve fit acceptance criteria of $\geq 0.990$ ?	/			
Were all percent relative standard deviations (%RSD) $\leq 30\%$ and relative response factors (RRF) $> 0.05$ ?			/	
<b>IV. Continuing calibration</b>				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	/			
Were all percent differences (%D) and relative response factors (RRF) within method criteria for all CCCs and SPCCs?			/	
Were all percent differences (%D) $\leq 25\%$ and relative response factors (RRF) $\geq 0.05$ ? <i>15/50 LODV <math>\leq 5</math></i>		/		
<b>V. Blanks</b>				
Was a method blank associated with every sample in this SDG?	/			
Was a method blank analyzed for each matrix and concentration?	/			
Was there contamination in the method blanks? If yes, please see the Blanks validation completeness worksheet.		/		
<b>VI. Surrogate spikes</b>				
Were all surrogate %R within QC limits?			/	
If 2 or more base neutral or acid surrogates were outside QC limits, was a reanalysis performed to confirm %R?			/	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?				
<b>VII. Matrix spike/Matrix spike duplicates</b>				
Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.	/			
Was a MS/MSD analyzed every 20 samples of each matrix?	/			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	/			
<b>VIII. Laboratory control samples</b>				
Was an LCS analyzed for this SDG?	/			

**VALIDATION FINDINGS CHECKLIST**

Validation Area	Yes	No	NA	Findings/Comments
Was an LCS analyzed per extraction batch?	<input checked="" type="checkbox"/>			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	<input checked="" type="checkbox"/>			
<b>IX. Regional Quality Assurance and Quality Control</b>				
Were performance evaluation (PE) samples performed?			<input checked="" type="checkbox"/>	
Were the performance evaluation (PE) samples within the acceptance limits?			<input checked="" type="checkbox"/>	
<b>X. Internal standards</b>				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	<input checked="" type="checkbox"/>			
Were retention times within + 30 seconds from the associated calibration standard?	<input checked="" type="checkbox"/>			
<b>XI. Target compound identification</b>				
Were relative retention times (RRT's) within + 0.06 RRT units of the standard?			<input checked="" type="checkbox"/>	
Did compound spectra meet specified EPA "Functional Guidelines" criteria?			<input checked="" type="checkbox"/>	
Were chromatogram peaks verified and accounted for?	<input checked="" type="checkbox"/>			
<b>XII. Compound quantitation/CRQLs</b>				
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the compound?			<input checked="" type="checkbox"/>	
Were compound quantitation and CRQLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	<input checked="" type="checkbox"/>			
<b>XIII. Tentatively identified compounds (TICS)</b>				
Were the major ions (> 10 percent relative intensity) in the reference spectrum evaluated in sample spectrum?			<input checked="" type="checkbox"/>	
Were relative intensities of the major ions within ± 20% between the sample and the reference spectra?			<input checked="" type="checkbox"/>	
Did the raw data indicate that the laboratory performed a library search for all required peaks in the chromatograms (samples and blanks)?			<input checked="" type="checkbox"/>	
<b>XIV. System performance</b>				
System performance was found to be acceptable.				
<b>XV. Overall assessment of data</b>				
Overall assessment of data was found to be acceptable.	<input checked="" type="checkbox"/>			
<b>XVI. Field duplicates</b>				
Field duplicate pairs were identified in this SDG.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Target compounds were detected in the field duplicates.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>XVII. Field blanks</b>				
Field blanks were identified in this SDG.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Target compounds were detected in the field blanks.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

LDC # 28538287  
 SDG#                     

**VALIDATION FINDINGS WORKSHEET**  
Initial Calibration Calculation Verification

Page: 1 of 1  
 Reviewer: [Signature]  
 2nd Reviewer: [Signature]

**METHOD:** 6850.00

**Parameter:** perchlorate

		weighted	
Date	Instrument	Compound	
03/02/2012	NS	perchlorate	
			Y
			X
			0.09050
			0.16323
			0.37489
			0.77283
			1.48528
			3.63370
			7.24902
			14.43676
			0.05
			0.10
			0.25
			0.50
			1.00
			2.50
			5.00
			10.00

Regression Output:		Reported
Constant	0.03038	
Std Err of Y Est	0.01511	
R Squared	0.99999	0.99990
No. of Observations	8.00000	
Degrees of Freedom	6.00000	
X Coefficient(s)	1.441E+000	
Std Err of Coef.	0.001634	0.00

**VALIDATION FINDINGS WORKSHEET**  
**Continuing Calibration Results Verification**

**METHOD:** GC/MS-BNA (EPA-SW-846 Method 8270C) *method 6852*

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference =  $100 * (\text{ave. RRF} - \text{RRF}) / \text{ave. RRF}$  Where: ave. RRF = initial calibration average RRF  
 RRF =  $(A_x)(C_b) / (A_b)(C_x)$  RRF = continuing calibration RRF  
 $A_x$  = Area of compound,  $A_b$  = Area of associated internal standard  
 $C_x$  = Concentration of compound,  $C_b$  = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Average RRF (Initial)	Reported		Recalculated	
					RRF (CC)	%R	RRF (CC)	%R
1			Phenol (1st internal standard) <i>Perchlorate</i>	2.0	2.038	102	102	
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			<del>Benzo(a)pyrene (6th internal standard)</del>					
2			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			<del>Benzo(a)pyrene (6th internal standard)</del>					
3			Phenol (1st internal standard)					
			Naphthalene (2nd internal standard)					
			Fluorene (3rd internal standard)					
			Pentachlorophenol (4th internal standard)					
			Bis(2-ethylhexyl)phthalate (5th internal standard)					
			<del>Benzo(a)pyrene (6th internal standard)</del>					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: FT

2nd Reviewer: *[Signature]*

METHOD: GC/MS BNA (EPA SW 846 Method 8270) - Method 685D

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery =  $100 * (SSC - SC) / SA$  Where: SSC = Spiked sample concentration  
SA = Spike added SC = Sample concentration

RPD =  $|MSC - MSC1 * 2 / (MSC + MSC1)|$  MSC = Matrix spike concentration  
MSDC = Matrix spike duplicate concentration

MS/MSD samples: 6 4 7

Compound	Spike Added (ug/kg)		Sample Concentration (ug/kg)	Spiked Sample Concentration (ug/kg)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD		MS	MSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
Phenol											
N-Nitroso-di-n-propylamine											
4-Chloro-3-methylphenol											
Acetylaphthene											
Pentachlorophenol											
Benzene											
<i>Perchlorate</i>	29.0	29.0	ND	31.1	28.8	107	107	99	99	8	8

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

METHOD: GC/MS BNA (EPA SW 846 Method 8270) Method 6850

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery =  $100 * (SC/SA)$  Where: SSC = Spike concentration  
 SA = Spike added  
 RPD =  $|(LCSC - LCSDC) / 2| / (LCSC + LCSDC)$  LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration  
 LCS/LCSD samples: LCS / P

Compound	Spike Added ( <u>ug/kg</u> )		Spike Concentration ( <u>ug/kg</u> )		LCS		LCSD		Percent Recovery		Percent Recovery		RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
<del>Phenol</del>														
<del>N-Nitroso-di-n-propylamine</del>														
<del>4-Chloro-3-methylphenol</del>														
<del>Acenaphthene</del>														
<del>Pentachlorophenol</del>														
<del>Pyrene</del>														
Perchlorate	25.0	25.0	24.9	25.6	100	100	102	102	3	3				

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.



# **SAMPLE DELIVERY GROUP**

**12D165**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-Apr-2012	SL-570-SA5C-SB-0.0-0.5	D165-01	N	3550B	8015B EFH	III
18-Apr-2012	SL-570-SA5C-SB-0.0-0.5	D165-01	N	3550B	8082	III
18-Apr-2012	SL-570-SA5C-SB-0.0-0.5	D165-01	N	3550B	8270C SIM	III
18-Apr-2012	SL-570-SA5C-SB-0.0-0.5	D165-01	N	7471A	7471A	III
18-Apr-2012	SL-570-SA5C-SB-0.0-0.5	D165-01	N	GEN PREP	6850	III
18-Apr-2012	SL-570-SA5C-SB-0.0-0.5	D165-01	N	TOTAL	6020	III
18-Apr-2012	SL-570-SA5C-SB-0.0-0.5	D165-01W	N	TOTAL	6020	III
18-Apr-2012	SL-570-SA5C-SB-2.0-3.0	D165-02	N	3550B	8015B EFH	III
18-Apr-2012	SL-570-SA5C-SB-2.0-3.0	D165-02	N	3550B	8082	III
18-Apr-2012	SL-570-SA5C-SB-2.0-3.0	D165-02	N	3550B	8270C SIM	III
18-Apr-2012	SL-570-SA5C-SB-2.0-3.0	D165-02	N	7471A	7471A	III
18-Apr-2012	SL-570-SA5C-SB-2.0-3.0	D165-02	N	GEN PREP	6850	III
18-Apr-2012	SL-570-SA5C-SB-2.0-3.0	D165-02	N	TOTAL	6020	III
18-Apr-2012	SL-570-SA5C-SB-2.0-3.0MS	D165-02M	MS	3550B	8015B EFH	III
18-Apr-2012	SL-570-SA5C-SB-2.0-3.0MS	D165-02M	MS	3550B	8270C SIM	III
18-Apr-2012	SL-570-SA5C-SB-2.0-3.0MSD	D165-02S	MSD	3550B	8015B EFH	III
18-Apr-2012	SL-570-SA5C-SB-2.0-3.0MSD	D165-02S	MSD	3550B	8270C SIM	III
18-Apr-2012	SL-570-SA5C-SB-2.0-3.0	D165-02W	N	TOTAL	6020	III
18-Apr-2012	SL-580-SA5C-SB-0.0-0.5	D165-03	N	3550B	8015B EFH	III
18-Apr-2012	SL-580-SA5C-SB-0.0-0.5	D165-03	N	3550B	8082	III
18-Apr-2012	SL-580-SA5C-SB-0.0-0.5	D165-03	N	3550B	8270C SIM	III
18-Apr-2012	SL-580-SA5C-SB-0.0-0.5	D165-03	N	7471A	7471A	III
18-Apr-2012	SL-580-SA5C-SB-0.0-0.5	D165-03	N	GEN PREP	6850	III
18-Apr-2012	SL-580-SA5C-SB-0.0-0.5	D165-03	N	GEN PREP	7199	III
18-Apr-2012	SL-580-SA5C-SB-0.0-0.5	D165-03	N	TOTAL	6020	III
18-Apr-2012	SL-580-SA5C-SB-0.0-0.5	D165-03W	N	TOTAL	6020	III

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
18-Apr-2012	SL-580-SA5C-SB-4.0-5.0	D165-04	N	3550B	8015B EFH	III
18-Apr-2012	SL-580-SA5C-SB-4.0-5.0	D165-04	N	3550B	8082	III
18-Apr-2012	SL-580-SA5C-SB-4.0-5.0	D165-04	N	3550B	8270C SIM	III
18-Apr-2012	SL-580-SA5C-SB-4.0-5.0	D165-04	N	7471A	7471A	III
18-Apr-2012	SL-580-SA5C-SB-4.0-5.0	D165-04	N	GEN PREP	6850	III
18-Apr-2012	SL-580-SA5C-SB-4.0-5.0	D165-04	N	GEN PREP	7199	III
18-Apr-2012	SL-580-SA5C-SB-4.0-5.0	D165-04	N	TOTAL	6020	III
18-Apr-2012	SL-580-SA5C-SB-4.0-5.0	D165-04W	N	TOTAL	6020	III
18-Apr-2012	SL-579-SA5C-SB-0.0-0.5	D165-05	N	3550B	8015B EFH	III
18-Apr-2012	SL-579-SA5C-SB-0.0-0.5	D165-05	N	3550B	8082	III
18-Apr-2012	SL-579-SA5C-SB-0.0-0.5	D165-05	N	3550B	8270C SIM	III
18-Apr-2012	SL-579-SA5C-SB-0.0-0.5	D165-05	N	7471A	7471A	III
18-Apr-2012	SL-579-SA5C-SB-0.0-0.5	D165-05	N	GEN PREP	6850	III
18-Apr-2012	SL-579-SA5C-SB-0.0-0.5	D165-05	N	GEN PREP	7199	III
18-Apr-2012	SL-579-SA5C-SB-0.0-0.5	D165-05	N	TOTAL	6020	III
18-Apr-2012	SL-579-SA5C-SB-0.0-0.5	D165-05W	N	TOTAL	6020	III
18-Apr-2012	SL-579-SA5C-SB-4.0-5.0	D165-06	N	3550B	8015B EFH	III
18-Apr-2012	SL-579-SA5C-SB-4.0-5.0	D165-06	N	3550B	8082	III
18-Apr-2012	SL-579-SA5C-SB-4.0-5.0	D165-06	N	3550B	8270C SIM	III
18-Apr-2012	SL-579-SA5C-SB-4.0-5.0	D165-06	N	7471A	7471A	III
18-Apr-2012	SL-579-SA5C-SB-4.0-5.0	D165-06	N	GEN PREP	6850	III
18-Apr-2012	SL-579-SA5C-SB-4.0-5.0	D165-06	N	GEN PREP	7199	III
18-Apr-2012	SL-579-SA5C-SB-4.0-5.0	D165-06	N	TOTAL	6020	III
18-Apr-2012	SL-579-SA5C-SB-4.0-5.0	D165-06W	N	TOTAL	6020	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: 12D165

Laboratory: EMXT

EDD Filename: Prep12D165

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** METALS  
**Method:** 6020 **Matrix:** SO

Sample ID: SL-570-SA5C-SB-0.0-0.5      Collected: 4/18/2012 9:00:00      Analysis Type: RES/TOT      Dilution: 0.957

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.192	J	0.105	MDL	0.523	PQL	MG/KG	J	Z
CADMIUM	0.250	J	0.0523	MDL	0.523	PQL	MG/KG	J	Z
SODIUM	63.4	J	52.3	MDL	105	PQL	MG/KG	J	Z
THALLIUM	0.206	J	0.0523	MDL	0.418	PQL	MG/KG	J	Z

Sample ID: SL-570-SA5C-SB-2.0-3.0      Collected: 4/18/2012 10:30:00      Analysis Type: RES/TOT      Dilution: 0.995

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.179	J	0.108	MDL	0.541	PQL	MG/KG	J	Z
BERYLLIUM	0.397	J	0.0541	MDL	0.541	PQL	MG/KG	J	Z
CADMIUM	0.150	J	0.0541	MDL	0.541	PQL	MG/KG	J	Z
MOLYBDENUM	0.320	J	0.0541	MDL	0.541	PQL	MG/KG	J	Z
SODIUM	73.1	J	54.1	MDL	108	PQL	MG/KG	J	Z
THALLIUM	0.213	J	0.0541	MDL	0.433	PQL	MG/KG	J	Z

Sample ID: SL-579-SA5C-SB-0.0-0.5      Collected: 4/18/2012 2:04:00      Analysis Type: RES/TOT      Dilution: 0.976

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.261	J	0.110	MDL	0.549	PQL	MG/KG	J	Z
CADMIUM	0.296	J	0.0549	MDL	0.549	PQL	MG/KG	J	Z
SODIUM	66.8	J	54.9	MDL	110	PQL	MG/KG	J	Z
THALLIUM	0.248	J	0.0549	MDL	0.439	PQL	MG/KG	J	Z

Sample ID: SL-579-SA5C-SB-4.0-5.0      Collected: 4/18/2012 2:30:00      Analysis Type: RES/TOT      Dilution: 0.976

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.169	J	0.108	MDL	0.539	PQL	MG/KG	J	Z
CADMIUM	0.231	J	0.0539	MDL	0.539	PQL	MG/KG	J	Z
MOLYBDENUM	0.464	J	0.0539	MDL	0.539	PQL	MG/KG	J	Z
SODIUM	74.1	J	53.9	MDL	108	PQL	MG/KG	J	Z
THALLIUM	0.261	J	0.0539	MDL	0.431	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/26/2012 7:33:40 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D165

Laboratory: EMXT

EDD Filename: Prep12D165

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-580-SA5C-SB-0.0-0.5      Collected: 4/18/2012 11:00:00      Analysis Type: RES/TOT      Dilution: 0.990

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.308	J	0.113	MDL	0.567	PQL	MG/KG	J	Z
CADMIUM	0.293	J	0.0567	MDL	0.567	PQL	MG/KG	J	Z
MOLYBDENUM	0.559	J	0.0567	MDL	0.567	PQL	MG/KG	J	Z
SODIUM	81.3	J	56.7	MDL	113	PQL	MG/KG	J	Z
THALLIUM	0.245	J	0.0567	MDL	0.454	PQL	MG/KG	J	Z

Sample ID: SL-580-SA5C-SB-4.0-5.0      Collected: 4/18/2012 11:30:00      Analysis Type: RES/TOT      Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.126	J	0.112	MDL	0.561	PQL	MG/KG	J	Z
BORON	3.04	J	2.80	MDL	5.61	PQL	MG/KG	J	Z
CADMIUM	0.337	J	0.0561	MDL	0.561	PQL	MG/KG	J	Z
MOLYBDENUM	0.105	J	0.0561	MDL	0.561	PQL	MG/KG	J	Z
SILVER	0.0631	J	0.0561	MDL	0.561	PQL	MG/KG	J	Z
THALLIUM	0.183	J	0.0561	MDL	0.448	PQL	MG/KG	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8015B EFH	<b>Matrix:</b> SO

Sample ID: SL-580-SA5C-SB-0.0-0.5      Collected: 4/18/2012 11:00:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C21-C30)	3.1	J	2.9	MDL	5.7	PQL	MG/KG	J	Z
EFH(C30-C40)	9.3	J	5.7	MDL	11	PQL	MG/KG	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C SIM	<b>Matrix:</b> SO

Sample ID: SL-570-SA5C-SB-0.0-0.5      Collected: 4/18/2012 9:00:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/26/2012 7:33:40 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D165

Laboratory: EMXT

EDD Filename: Prep12D165

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-570-SA5C-SB-0.0-0.5 Collected: 4/18/2012 9:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)PYRENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
BENZO(B)FLUORANTHENE	3.4	J	2.7	MDL	11	PQL	UG/KG	J	Z, S
BENZO(E)PYRENE	5.5	U	2.7	MDL	5.5	PQL	UG/KG	UJ	S
BENZO(G,H,I)PERYLENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
BENZO(K)FLUORANTHENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
CHRYSENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
DIBENZO(A,H)ANTHRACENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
FLUORANTHENE	4.6	J	2.7	MDL	11	PQL	UG/KG	J	Z, S
FLUORENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
INDENO(1,2,3-CD)PYRENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
NAPHTHALENE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	11	U	2.7	MDL	11	PQL	UG/KG	UJ	S
PHENANTHRENE	2.9	J	2.7	MDL	11	PQL	UG/KG	J	Z, S
PYRENE	4.3	J	2.7	MDL	11	PQL	UG/KG	J	Z, S

Sample ID: SL-579-SA5C-SB-0.0-0.5 Collected: 4/18/2012 2:04:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHENE	3.3	J	2.8	MDL	11	PQL	UG/KG	J	Z, S
ACENAPHTHYLENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ANTHRACENE	15		2.8	MDL	11	PQL	UG/KG	J	S
BENZO(A)ANTHRACENE	74		2.8	MDL	11	PQL	UG/KG	J	S
BENZO(A)PYRENE	60		2.8	MDL	11	PQL	UG/KG	J	S
BENZO(B)FLUORANTHENE	83		2.8	MDL	11	PQL	UG/KG	J	S
BENZO(E)PYRENE	39		2.8	MDL	5.6	PQL	UG/KG	J	S
BENZO(G,H,I)PERYLENE	28		2.8	MDL	11	PQL	UG/KG	J	S
BENZO(K)FLUORANTHENE	30		2.8	MDL	11	PQL	UG/KG	J	S
CHRYSENE	88		2.8	MDL	11	PQL	UG/KG	J	S
DIBENZO(A,H)ANTHRACENE	8.6	J	2.8	MDL	11	PQL	UG/KG	J	Z, S
FLUORANTHENE	210		2.8	MDL	11	PQL	UG/KG	J	S
FLUORENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

# Data Qualifier Summary

Lab Reporting Batch ID: 12D165

Laboratory: EMXT

EDD Filename: Prep12D165

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-579-SA5C-SB-0.0-0.5 Collected: 4/18/2012 2:04:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	25		2.8	MDL	11	PQL	UG/KG	J	S
NAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
PHENANTHRENE	100		2.8	MDL	11	PQL	UG/KG	J	S
PYRENE	210		2.8	MDL	11	PQL	UG/KG	J	S

Sample ID: SL-579-SA5C-SB-4.0-5.0 Collected: 4/18/2012 2:30:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(B)FLUORANTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(E)PYRENE	5.5	U	2.8	MDL	5.5	PQL	UG/KG	UJ	S
BENZO(G,H,I)PERYLENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(K)FLUORANTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
CHRYSENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
DIBENZO(A,H)ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
FLUORANTHENE	4.4	J	2.8	MDL	11	PQL	UG/KG	J	Z, S
FLUORENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
INDENO(1,2,3-CD)PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
NAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
PHENANTHRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
PYRENE	4.5	J	2.8	MDL	11	PQL	UG/KG	J	Z, S

Sample ID: SL-580-SA5C-SB-0.0-0.5 Collected: 4/18/2012 11:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	6.1	J	2.9	MDL	11	PQL	UG/KG	J	Z
DIBENZO(A,H)ANTHRACENE	5.9	J	2.9	MDL	11	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

# Data Qualifier Summary

Lab Reporting Batch ID: 12D165

Laboratory: EMXT

EDD Filename: Prep12D165

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-580-SA5C-SB-4.0-5.0

Collected: 4/18/2012 11:30:00

Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(B)FLUORANTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(E)PYRENE	5.6	U	2.8	MDL	5.6	PQL	UG/KG	UJ	S
BENZO(G,H,I)PERYLENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(K)FLUORANTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
CHRYSENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
DIBENZO(A,H)ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
FLUORANTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
FLUORENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
INDENO(1,2,3-CD)PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
NAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
PHENANTHRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/26/2012 7:33:40 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D165

Laboratory: EMXT

EDD Filename: Prep12D165

eQAPP Name: CDM\_SSFL\_120730\_EMAX

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
S	Surrogate/Tracer Recovery Lower Estimation
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

12D165

# Surrogate Outlier Report

Lab Reporting Batch ID: 12D165

Laboratory: EMXT

EDD Filename: 12D165R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 8270C SIM

Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-570-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL Nitrobenzene-d5	31 32.3	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J (all detects) UJ (all non-detects)
SL-579-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL Nitrobenzene-d5	31.1 33.7	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)
SL-579-SA5C-SB-4.0-5.0	2-FLUOROBIPHENYL Nitrobenzene-d5	34.2 39.8	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)
SL-580-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL	36.9	45.00-130.00	No Affected Compounds	
SL-580-SA5C-SB-4.0-5.0	2-FLUOROBIPHENYL Nitrobenzene-d5 Terphenyl-d14	25.1 34.4 38.5	45.00-130.00 40.00-130.00 45.00-135.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)

## Reporting Limit Outliers

Lab Reporting Batch ID: 12D165

Laboratory: EMXT

EDD Filename: 12D165R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 6020  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-570-SA5C-SB-0.0-0.5	ANTIMONY	J	0.192	0.523	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.250	0.523	PQL	MG/KG	
	SODIUM	J	63.4	105	PQL	MG/KG	
	THALLIUM	J	0.206	0.418	PQL	MG/KG	
SL-570-SA5C-SB-2.0-3.0	ANTIMONY	J	0.179	0.541	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.397	0.541	PQL	MG/KG	
	CADMIUM	J	0.150	0.541	PQL	MG/KG	
	MOLYBDENUM	J	0.320	0.541	PQL	MG/KG	
	SODIUM	J	73.1	108	PQL	MG/KG	
	THALLIUM	J	0.213	0.433	PQL	MG/KG	
SL-579-SA5C-SB-0.0-0.5	ANTIMONY	J	0.261	0.549	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.296	0.549	PQL	MG/KG	
	SODIUM	J	66.8	110	PQL	MG/KG	
	THALLIUM	J	0.248	0.439	PQL	MG/KG	
SL-579-SA5C-SB-4.0-5.0	ANTIMONY	J	0.169	0.539	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.231	0.539	PQL	MG/KG	
	MOLYBDENUM	J	0.464	0.539	PQL	MG/KG	
	SODIUM	J	74.1	108	PQL	MG/KG	
	THALLIUM	J	0.261	0.431	PQL	MG/KG	
SL-580-SA5C-SB-0.0-0.5	ANTIMONY	J	0.308	0.567	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.293	0.567	PQL	MG/KG	
	MOLYBDENUM	J	0.559	0.567	PQL	MG/KG	
	SODIUM	J	81.3	113	PQL	MG/KG	
	THALLIUM	J	0.245	0.454	PQL	MG/KG	
SL-580-SA5C-SB-4.0-5.0	ANTIMONY	J	0.126	0.561	PQL	MG/KG	J (all detects)
	BORON	J	3.04	5.61	PQL	MG/KG	
	CADMIUM	J	0.337	0.561	PQL	MG/KG	
	MOLYBDENUM	J	0.105	0.561	PQL	MG/KG	
	SILVER	J	0.0631	0.561	PQL	MG/KG	
	THALLIUM	J	0.183	0.448	PQL	MG/KG	

**Method:** 8015B EFH  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-580-SA5C-SB-0.0-0.5	EFH(C21-C30)	J	3.1	5.7	PQL	MG/KG	J (all detects)
	EFH(C30-C40)	J	9.3	11	PQL	MG/KG	

**Method:** 8270C SIM  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-570-SA5C-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	3.4	11	PQL	UG/KG	J (all detects)
	FLUORANTHENE	J	4.6	11	PQL	UG/KG	
	PHENANTHRENE	J	2.9	11	PQL	UG/KG	
	PYRENE	J	4.3	11	PQL	UG/KG	

# Reporting Limit Outliers

Lab Reporting Batch ID: 12D165

Laboratory: EMXT

EDD Filename: 12D165R

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-579-SA5C-SB-0.0-0.5	ACENAPHTHENE	J	3.3	11	PQL	UG/KG	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	8.6	11	PQL	UG/KG	
SL-579-SA5C-SB-4.0-5.0	FLUORANTHENE	J	4.4	11	PQL	UG/KG	J (all detects)
	PYRENE	J	4.5	11	PQL	UG/KG	
SL-580-SA5C-SB-0.0-0.5	ANTHRACENE	J	6.1	11	PQL	UG/KG	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	5.9	11	PQL	UG/KG	

LDC #: 28558D4  
 SDG #: 12D165  
 Laboratory: EMAX Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 ADR

Date: 1/5-12  
 Page: 1 of 1  
 Reviewer: [Signature]  
 2nd Reviewer: [Signature]

**METHOD:** Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times		Sampling dates:
II.	ICP/MS Tune		
III.	Calibration		
IV.	Blanks	D	
V.	ICP Interference Check Sample (ICS) Analysis	/	
VI.	Matrix Spike Analysis	N	CS
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N	LES/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EPB EP3041912 (100175)

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet  
 ND = No compounds detected  
 R = Rinsate  
 FB = Field blank  
 D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

FB = FB071112  
 (126064)

Validated Samples:

soil

1	SL-570-SA5C-SB-0.0-0.5	11		21		31	
2	SL-570-SA5C-SB-2.0-3.0	12		22		32	
3	SL-580-SA5C-SB-0.0-0.5	13		23		33	
4	SL-580-SA5C-SB-4.0-5.0	14		24		34	
5	SL-579-SA5C-SB-0.0-0.5	15		25		35	
6	SL-579-SA5C-SB-4.0-5.0	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** ug/L **Associated sample units:** mg/Kg  
**Sampling date:** 7/11/12 **Soil factor applied:** 50x  
**Field blank type:** (circle one) Field Blank / Rinsate / Other: Associated Samples: All

Analyte		Blank ID	Action Limit	No Qualifiers	Sample Identification				
		FB-071112							
Al		0.0296	7.4						
Cu		0.00102	0.255						
Ni		0.000204	0.051						

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
 Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# **SAMPLE DELIVERY GROUP**

**12D175**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Apr-2012	SL-516-SA5C-SB-0.0-0.5	D175-04	N	3550B	8015B EFH	III
19-Apr-2012	SL-516-SA5C-SB-0.0-0.5	D175-04	N	3550B	8082	III
19-Apr-2012	SL-516-SA5C-SB-0.0-0.5	D175-04	N	3550B	8270C SIM	III
19-Apr-2012	SL-516-SA5C-SB-0.0-0.5	D175-04	N	7471A	7471A	III
19-Apr-2012	SL-516-SA5C-SB-0.0-0.5	D175-04W	N	TOTAL	6020	III
19-Apr-2012	SL-516-SA5C-SB-4.0-5.0	D175-05	N	3550B	8015B EFH	III
19-Apr-2012	SL-516-SA5C-SB-4.0-5.0	D175-05	N	3550B	8082	III
19-Apr-2012	SL-516-SA5C-SB-4.0-5.0	D175-05	N	3550B	8270C SIM	III
19-Apr-2012	SL-516-SA5C-SB-4.0-5.0	D175-05	N	7471A	7471A	III
19-Apr-2012	SL-516-SA5C-SB-4.0-5.0	D175-05W	N	TOTAL	6020	III
19-Apr-2012	SL-515-SA5C-SB-0.0-0.5	D175-03	N	3550B	8015B EFH	III
19-Apr-2012	SL-515-SA5C-SB-0.0-0.5	D175-03	N	3550B	8082	III
19-Apr-2012	SL-515-SA5C-SB-0.0-0.5	D175-03	N	3550B	8270C SIM	III
19-Apr-2012	SL-515-SA5C-SB-0.0-0.5	D175-03	N	7471A	7471A	III
19-Apr-2012	SL-515-SA5C-SB-0.0-0.5	D175-03	N	GEN PREP	6850	III
19-Apr-2012	SL-515-SA5C-SB-0.0-0.5	D175-03W	N	TOTAL	6020	III
19-Apr-2012	SL-513-SA5C-SB-0.0-0.5	D175-02	N	3550B	8015B EFH	III
19-Apr-2012	SL-513-SA5C-SB-0.0-0.5	D175-02	N	3550B	8082	III
19-Apr-2012	SL-513-SA5C-SB-0.0-0.5	D175-02	N	3550B	8270C SIM	III
19-Apr-2012	SL-513-SA5C-SB-0.0-0.5	D175-02	N	7471A	7471A	III
19-Apr-2012	SL-513-SA5C-SB-0.0-0.5	D175-02	N	GEN PREP	6850	III
19-Apr-2012	SL-513-SA5C-SB-0.0-0.5	D175-02W	N	TOTAL	6020	III
19-Apr-2012	SL-575-SA5C-SB-0.0-0.5	D175-06	N	3550B	8015B EFH	III
19-Apr-2012	SL-575-SA5C-SB-0.0-0.5	D175-06	N	3550B	8082	III
19-Apr-2012	SL-575-SA5C-SB-0.0-0.5	D175-06	N	3550B	8270C SIM	III
19-Apr-2012	SL-575-SA5C-SB-0.0-0.5	D175-06	N	7471A	7471A	III

III = EPA Level 3 Data Review  
IV = EPA Level 4 Data Validation

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Apr-2012	SL-575-SA5C-SB-0.0-0.5	D175-06	N	GEN PREP	6850	III
19-Apr-2012	SL-575-SA5C-SB-0.0-0.5	D175-06W	N	TOTAL	6020	III
19-Apr-2012	EB-041912	D175-01	EB	3520C	8015B EFH	III
19-Apr-2012	EB-041912	D175-01	EB	3520C	8082	III
19-Apr-2012	EB-041912	D175-01	EB	3520C	8270C SIM	III
19-Apr-2012	EB-041912	D175-01	EB	7470A	7470A	III
19-Apr-2012	EB-041912	D175-01	EB	GEN PREP	6850	III
19-Apr-2012	EB-041912	D175-01	EB	GEN PREP	7199	III
19-Apr-2012	EB-041912	D175-01W	EB	TOTAL	6020	III
19-Apr-2012	SL-518-SA5C-SB-0.0-0.5	D175-08	N	3550B	8082	III
19-Apr-2012	SL-518-SA5C-SB-0.0-0.5	D175-08	N	3550B	8270C SIM	III
19-Apr-2012	SL-518-SA5C-SB-0.0-0.5	D175-08	N	7471A	7471A	III
19-Apr-2012	SL-518-SA5C-SB-0.0-0.5	D175-08	N	GEN PREP	6850	III
19-Apr-2012	SL-518-SA5C-SB-0.0-0.5	D175-08W	N	TOTAL	6020	III
19-Apr-2012	SL-510-SA5C-SB-0.0-0.5	D175-07	N	3550B	8082	III
19-Apr-2012	SL-510-SA5C-SB-0.0-0.5	D175-07	N	3550B	8270C SIM	III
19-Apr-2012	SL-510-SA5C-SB-0.0-0.5	D175-07	N	7471A	7471A	III
19-Apr-2012	SL-510-SA5C-SB-0.0-0.5	D175-07	N	GEN PREP	6850	III
19-Apr-2012	SL-510-SA5C-SB-0.0-0.5	D175-07W	N	TOTAL	6020	III
19-Apr-2012	SL-517-SA5C-SB-0.0-0.5	D175-09	N	3550B	8082	III
19-Apr-2012	SL-517-SA5C-SB-0.0-0.5	D175-09	N	3550B	8270C SIM	III
19-Apr-2012	SL-517-SA5C-SB-0.0-0.5	D175-09	N	7471A	7471A	III
19-Apr-2012	SL-517-SA5C-SB-0.0-0.5	D175-09	N	GEN PREP	6850	III
19-Apr-2012	SL-517-SA5C-SB-0.0-0.5	D175-09W	N	TOTAL	6020	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** METALS  
**Method:** 6020 **Matrix:** AQ

Sample ID: EB-041912 Collected: 4/19/2012 1:00:00 Analysis Type: RES/TOT Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.00100	U	0.000500	MDL	0.00100	PQL	MG/L	UJ	Q
BARIUM	0.000878	J	0.000500	MDL	0.00100	PQL	MG/L	J	Z
CALCIUM	0.0461	J	0.0250	MDL	0.100	PQL	MG/L	J	Z
COPPER	0.000506	J	0.000500	MDL	0.00100	PQL	MG/L	J	Z
Zirconium	0.00500	U	0.00200	MDL	0.00500	PQL	MG/L	UJ	Q

**Method Category:** METALS  
**Method:** 6020 **Matrix:** SO

Sample ID: SL-510-SA5C-SB-0.0-0.5 Collected: 4/19/2012 2:35:00 Analysis Type: RES/TOT Dilution: 0.971

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.360	J	0.117	MDL	0.584	PQL	MG/KG	J	Z, Q
BORON	2.92	J	2.92	MDL	5.84	PQL	MG/KG	J	Z
SILVER	0.146	J	0.0584	MDL	0.584	PQL	MG/KG	J	Z
SODIUM	110	J	58.4	MDL	117	PQL	MG/KG	J	Z
THALLIUM	0.310	J	0.0584	MDL	0.467	PQL	MG/KG	J	Z
Zirconium	5.84	U	2.92	MDL	5.84	PQL	MG/KG	UJ	Q

Sample ID: SL-513-SA5C-SB-0.0-0.5 Collected: 4/19/2012 10:50:00 Analysis Type: RES/TOT Dilution: 0.957

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.253	J	0.112	MDL	0.559	PQL	MG/KG	J	Z, Q
BORON	3.18	J	2.79	MDL	5.59	PQL	MG/KG	J	Z
CADMIUM	0.333	J	0.0559	MDL	0.559	PQL	MG/KG	J	Z
SILVER	0.0990	J	0.0559	MDL	0.559	PQL	MG/KG	J	Z
SODIUM	86.2	J	55.9	MDL	112	PQL	MG/KG	J	Z
THALLIUM	0.270	J	0.0559	MDL	0.447	PQL	MG/KG	J	Z
Zirconium	5.59	U	2.79	MDL	5.59	PQL	MG/KG	UJ	Q

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/13/2012 9:33:15 AM

ADR version 1.6.0.193

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	<b>Matrix:</b>	SO
<b>Method:</b>	6020		

Sample ID: SL-515-SA5C-SB-0.0-0.5      Collected: 4/19/2012 10:10:00      Analysis Type: RES/TOT      Dilution: 0.990

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.213	J	0.110	MDL	0.550	PQL	MG/KG	J	Z, Q
BORON	3.00	J	2.75	MDL	5.50	PQL	MG/KG	J	Z
CADMIUM	0.350	J	0.0550	MDL	0.550	PQL	MG/KG	J	Z
SILVER	0.0564	J	0.0550	MDL	0.550	PQL	MG/KG	J	Z
SODIUM	72.9	J	55.0	MDL	110	PQL	MG/KG	J	Z
THALLIUM	0.265	J	0.0550	MDL	0.440	PQL	MG/KG	J	Z
Zirconium	5.50	U	2.75	MDL	5.50	PQL	MG/KG	UJ	Q

Sample ID: SL-516-SA5C-SB-0.0-0.5      Collected: 4/19/2012 9:15:00      Analysis Type: RES/TOT      Dilution: 0.976

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.564	J	0.114	MDL	0.568	PQL	MG/KG	J	Z, Q
BERYLLIUM	0.458	J	0.0568	MDL	0.568	PQL	MG/KG	J	Z
SODIUM	78.5	J	56.8	MDL	114	PQL	MG/KG	J	Z
THALLIUM	0.205	J	0.0568	MDL	0.454	PQL	MG/KG	J	Z
Zirconium	5.68	U	2.84	MDL	5.68	PQL	MG/KG	UJ	Q

Sample ID: SL-516-SA5C-SB-4.0-5.0      Collected: 4/19/2012 9:40:00      Analysis Type: RES/TOT      Dilution: 0.995

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.149	J	0.114	MDL	0.572	PQL	MG/KG	J	Z, Q
CADMIUM	0.247	J	0.0572	MDL	0.572	PQL	MG/KG	J	Z
MOLYBDENUM	0.309	J	0.0572	MDL	0.572	PQL	MG/KG	J	Z
SILVER	0.119	J	0.0572	MDL	0.572	PQL	MG/KG	J	Z
THALLIUM	0.258	J	0.0572	MDL	0.458	PQL	MG/KG	J	Z
Zirconium	5.72	U	2.86	MDL	5.72	PQL	MG/KG	UJ	Q

Sample ID: SL-517-SA5C-SB-0.0-0.5      Collected: 4/19/2012 3:00:00      Analysis Type: RES/TOT      Dilution: 0.995

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.416	J	0.107	MDL	0.537	PQL	MG/KG	J	Z, Q
BORON	3.32	J	2.69	MDL	5.37	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-517-SA5C-SB-0.0-0.5

Collected: 4/19/2012 3:00:00

Analysis Type: RES/TOT

Dilution: 0.995

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SILVER	0.0789	J	0.0537	MDL	0.537	PQL	MG/KG	J	Z
SODIUM	96.6	J	53.7	MDL	107	PQL	MG/KG	J	Z
THALLIUM	0.226	J	0.0537	MDL	0.430	PQL	MG/KG	J	Z
Zirconium	5.37	U	2.69	MDL	5.37	PQL	MG/KG	UJ	Q

Sample ID: SL-518-SA5C-SB-0.0-0.5

Collected: 4/19/2012 2:00:00

Analysis Type: RES/TOT

Dilution: 0.990

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.356	J	0.102	MDL	0.511	PQL	MG/KG	J	Z, Q
BORON	3.39	J	2.55	MDL	5.11	PQL	MG/KG	J	Z
CADMIUM	0.389	J	0.0511	MDL	0.511	PQL	MG/KG	J	Z
THALLIUM	0.277	J	0.0511	MDL	0.409	PQL	MG/KG	J	Z
TIN	6.57	J	5.11	MDL	10.2	PQL	MG/KG	J	Z
Zirconium	5.11	U	2.55	MDL	5.11	PQL	MG/KG	UJ	Q

Sample ID: SL-575-SA5C-SB-0.0-0.5

Collected: 4/19/2012 11:15:00

Analysis Type: RES/TOT

Dilution: 0.976

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.250	J	0.114	MDL	0.572	PQL	MG/KG	J	Z, Q
BORON	4.46	J	2.86	MDL	5.72	PQL	MG/KG	J	Z
CADMIUM	0.539	J	0.0572	MDL	0.572	PQL	MG/KG	J	Z
MOLYBDENUM	0.551	J	0.0572	MDL	0.572	PQL	MG/KG	J	Z
SILVER	0.127	J	0.0572	MDL	0.572	PQL	MG/KG	J	Z
SODIUM	101	J	57.2	MDL	114	PQL	MG/KG	J	Z
THALLIUM	0.292	J	0.0572	MDL	0.458	PQL	MG/KG	J	Z
Zirconium	5.72	U	2.86	MDL	5.72	PQL	MG/KG	UJ	Q

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	7471A	<b>Matrix:</b> SO

Sample ID: SL-517-SA5C-SB-0.0-0.5      Collected: 4/19/2012 3:00:00      Analysis Type: RES/TOT      Dilution: 0.988

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0846	J	0.0533	MDL	0.107	PQL	MG/KG	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8015B EFH	<b>Matrix:</b> SO

Sample ID: SL-515-SA5C-SB-0.0-0.5      Collected: 4/19/2012 10:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C21-C30)	3.8	J	2.8	MDL	5.6	PQL	MG/KG	J	Z

Sample ID: SL-575-SA5C-SB-0.0-0.5      Collected: 4/19/2012 11:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C21-C30)	5.3	J	2.9	MDL	5.9	PQL	MG/KG	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8082	<b>Matrix:</b> AQ

Sample ID: EB-041912      Collected: 4/19/2012 1:00:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1016	1.0	U	0.50	MDL	1.0	PQL	UG/L	UJ	E
AROCLOR 1221	1.0	U	0.50	MDL	1.0	PQL	UG/L	UJ	E
AROCLOR 1232	1.0	U	0.50	MDL	1.0	PQL	UG/L	UJ	E
Aroclor 5432	2.0	U	1.0	MDL	2.0	PQL	UG/L	UJ	E
Aroclor 5442	2.0	U	1.0	MDL	2.0	PQL	UG/L	UJ	E
Aroclor 5460	2.0	U	1.0	MDL	2.0	PQL	UG/L	UJ	E

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b> SVOA
<b>Method:</b> 8082
<b>Matrix:</b> SO

Sample ID: SL-516-SA5C-SB-0.0-0.5 Collected: 4/19/2012 9:15:00 Analysis Type: RES Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	36	J	23	MDL	47	PQL	UG/KG	J	Z

<b>Method Category:</b> SVOA
<b>Method:</b> 8270C SIM
<b>Matrix:</b> SO

Sample ID: SL-510-SA5C-SB-0.0-0.5 Collected: 4/19/2012 2:35:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	5.1	J	3.0	MDL	12	PQL	UG/KG	J	Z
DIBENZO(A,H)ANTHRACENE	4.3	J	3.0	MDL	12	PQL	UG/KG	J	Z

Sample ID: SL-513-SA5C-SB-0.0-0.5 Collected: 4/19/2012 10:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	6.8	J	5.8	MDL	23	PQL	UG/KG	J	Z
PYRENE	5.9	J	5.8	MDL	23	PQL	UG/KG	J	Z

Sample ID: SL-515-SA5C-SB-0.0-0.5 Collected: 4/19/2012 10:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(A)PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(B)FLUORANTHENE	3.3	J	2.8	MDL	11	PQL	UG/KG	J	Z, S
BENZO(E)PYRENE	5.6	U	2.8	MDL	5.6	PQL	UG/KG	UJ	S
BENZO(G,H,I)PERYLENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
BENZO(K)FLUORANTHENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
CHRYSENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
DIBENZO(A,H)ANTHRACENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method Category: SVOA  
 Method: 8270C SIM Matrix: SO

Sample ID: SL-515-SA5C-SB-0.0-0.5 Collected: 4/19/2012 10:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	5.7	J	2.8	MDL	11	PQL	UG/KG	J	Z, S
FLUORENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
INDENO(1,2,3-CD)PYRENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
NAPHTHALENE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	11	U	2.8	MDL	11	PQL	UG/KG	UJ	S
PHENANTHRENE	3.2	J	2.8	MDL	11	PQL	UG/KG	J	Z, S
PYRENE	4.6	J	2.8	MDL	11	PQL	UG/KG	J	Z, S

Sample ID: SL-516-SA5C-SB-0.0-0.5 Collected: 4/19/2012 9:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	6.3	J	5.8	MDL	23	PQL	UG/KG	J	Z
ACENAPHTHYLENE	8.1	J	5.8	MDL	23	PQL	UG/KG	J	Z
ANTHRACENE	21	J	5.8	MDL	23	PQL	UG/KG	J	Z
DIBENZO(A,H)ANTHRACENE	19	J	5.8	MDL	23	PQL	UG/KG	J	Z
FLUORENE	7.1	J	5.8	MDL	23	PQL	UG/KG	J	Z

Sample ID: SL-516-SA5C-SB-4.0-5.0 Collected: 4/19/2012 9:40:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ACENAPHTHENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(A)PYRENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(B)FLUORANTHENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(E)PYRENE	5.8	U	2.9	MDL	5.8	PQL	UG/KG	UJ	S
BENZO(G,H,I)PERYLENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(K)FLUORANTHENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
CHRYSENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
DIBENZO(A,H)ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-516-SA5C-SB-4.0-5.0

Collected: 4/19/2012 9:40:00

Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	5.1	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
FLUORENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
INDENO(1,2,3-CD)PYRENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
NAPHTHALENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
PHENANTHRENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
PYRENE	4.2	J	2.9	MDL	12	PQL	UG/KG	J	Z, S

Sample ID: SL-518-SA5C-SB-0.0-0.5

Collected: 4/19/2012 2:00:00

Analysis Type: RES-BASE/NEUTRAL Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	7.9	J	5.2	MDL	21	PQL	UG/KG	J	Z
BENZO(B)FLUORANTHENE	16	J	5.2	MDL	21	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	19	J	5.2	MDL	21	PQL	UG/KG	J	Z
FLUORANTHENE	8.6	J	5.2	MDL	21	PQL	UG/KG	J	Z
INDENO(1,2,3-CD)PYRENE	7.4	J	5.2	MDL	21	PQL	UG/KG	J	Z
PYRENE	8.3	J	5.2	MDL	21	PQL	UG/KG	J	Z

Sample ID: SL-575-SA5C-SB-0.0-0.5

Collected: 4/19/2012 11:15:00

Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
2-METHYLNAPHTHALENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ACENAPHTHENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ACENAPHTHYLENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(A)ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
BENZO(A)PYRENE	3.7	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
BENZO(B)FLUORANTHENE	6.1	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
BENZO(E)PYRENE	3.9	J	2.9	MDL	5.9	PQL	UG/KG	J	Z, S
BENZO(G,H,I)PERYLENE	3.2	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
BENZO(K)FLUORANTHENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
CHRYSENE	4.5	J	2.9	MDL	12	PQL	UG/KG	J	Z, S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-575-SA5C-SB-0.0-0.5 Collected: 4/19/2012 11:15:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
DIBENZO(A,H)ANTHRACENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
FLUORANTHENE	9.4	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
FLUORENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
INDENO(1,2,3-CD)PYRENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
NAPHTHALENE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
N-NITROSODIMETHYLAMINE	12	U	2.9	MDL	12	PQL	UG/KG	UJ	S
PHENANTHRENE	4.0	J	2.9	MDL	12	PQL	UG/KG	J	Z, S
PYRENE	8.2	J	2.9	MDL	12	PQL	UG/KG	J	Z, S

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
E	Laboratory Control Precision
L	Laboratory Control Precision
Q	Matrix Spike Lower Estimation
S	Surrogate/Tracer Recovery Lower Estimation
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

12D175

# Surrogate Outlier Report

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 8270C SIM

Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-515-SA5C-SB- 0.0-0.5	2-FLUOROBIPHENYL Nitrobenzene-d5	31.2 32	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J (all detects) UJ (all non-detects)
SL-516-SA5C-SB- 4.0-5.0	2-FLUOROBIPHENYL Nitrobenzene-d5	30.3 33.7	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)
SL-575-SA5C-SB- 0.0-0.5	2-FLUOROBIPHENYL Nitrobenzene-d5	28.3 29.4	45.00-130.00 40.00-130.00	All Base/Neutral Target Analytes	J(all detects) UJ(all non-detects)

# Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 8082

Matrix: AQ

QC Sample ID (Associated Samples)	Compound	LCS %R	LCSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
60D053WY (EB-041912)	AROCLOR 1016 Aroclor 5460	- -	- -	50.00-130.00 50.00-150.00	33 (30.00) 37 (30.00)	AROCLOR 1016 AROCLOR 1221 AROCLOR 1232 AROCLOR 5432 AROCLOR 5442 AROCLOR 5460	J (all detects) UJ (all non-detects)

## Reporting Limit Outliers

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 6020

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-041912	BARIUM	J	0.000878	0.00100	PQL	MG/L	J (all detects)
	CALCIUM	J	0.0461	0.100	PQL	MG/L	
	COPPER	J	0.000506	0.00100	PQL	MG/L	

Method: 6020

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-510-SA5C-SB-0.0-0.5	ANTIMONY	J	0.360	0.584	PQL	MG/KG	J (all detects)
	BORON	J	2.92	5.84	PQL	MG/KG	
	SILVER	J	0.146	0.584	PQL	MG/KG	
	SODIUM	J	110	117	PQL	MG/KG	
	THALLIUM	J	0.310	0.467	PQL	MG/KG	
SL-513-SA5C-SB-0.0-0.5	ANTIMONY	J	0.253	0.559	PQL	MG/KG	J (all detects)
	BORON	J	3.18	5.59	PQL	MG/KG	
	CADMIUM	J	0.333	0.559	PQL	MG/KG	
	SILVER	J	0.0990	0.559	PQL	MG/KG	
	SODIUM	J	86.2	112	PQL	MG/KG	
SL-515-SA5C-SB-0.0-0.5	ANTIMONY	J	0.213	0.550	PQL	MG/KG	J (all detects)
	BORON	J	3.00	5.50	PQL	MG/KG	
	CADMIUM	J	0.350	0.550	PQL	MG/KG	
	SILVER	J	0.0564	0.550	PQL	MG/KG	
	SODIUM	J	72.9	110	PQL	MG/KG	
SL-516-SA5C-SB-0.0-0.5	ANTIMONY	J	0.564	0.568	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.458	0.568	PQL	MG/KG	
	SODIUM	J	78.5	114	PQL	MG/KG	
	THALLIUM	J	0.205	0.454	PQL	MG/KG	
SL-516-SA5C-SB-4.0-5.0	ANTIMONY	J	0.149	0.572	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.247	0.572	PQL	MG/KG	
	MOLYBDENUM	J	0.309	0.572	PQL	MG/KG	
	SILVER	J	0.119	0.572	PQL	MG/KG	
	THALLIUM	J	0.258	0.458	PQL	MG/KG	
SL-517-SA5C-SB-0.0-0.5	ANTIMONY	J	0.416	0.537	PQL	MG/KG	J (all detects)
	BORON	J	3.32	5.37	PQL	MG/KG	
	SILVER	J	0.0789	0.537	PQL	MG/KG	
	SODIUM	J	96.6	107	PQL	MG/KG	
	THALLIUM	J	0.226	0.430	PQL	MG/KG	
SL-518-SA5C-SB-0.0-0.5	ANTIMONY	J	0.356	0.511	PQL	MG/KG	J (all detects)
	BORON	J	3.39	5.11	PQL	MG/KG	
	CADMIUM	J	0.389	0.511	PQL	MG/KG	
	THALLIUM	J	0.277	0.409	PQL	MG/KG	
	TIN	J	6.57	10.2	PQL	MG/KG	

# Reporting Limit Outliers

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 6020

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-575-SA5C-SB-0.0-0.5	ANTIMONY	J	0.250	0.572	PQL	MG/KG	J (all detects)
	BORON	J	4.46	5.72	PQL	MG/KG	
	CADMIUM	J	0.539	0.572	PQL	MG/KG	
	MOLYBDENUM	J	0.551	0.572	PQL	MG/KG	
	SILVER	J	0.127	0.572	PQL	MG/KG	
	SODIUM	J	101	114	PQL	MG/KG	
	THALLIUM	J	0.292	0.458	PQL	MG/KG	

**Method:** 7471A

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-517-SA5C-SB-0.0-0.5	MERCURY	J	0.0846	0.107	PQL	MG/KG	J (all detects)

**Method:** 8015B EFH

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-515-SA5C-SB-0.0-0.5	EFH(C21-C30)	J	3.8	5.6	PQL	MG/KG	J (all detects)
SL-575-SA5C-SB-0.0-0.5	EFH(C21-C30)	J	5.3	5.9	PQL	MG/KG	J (all detects)

**Method:** 8082

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-516-SA5C-SB-0.0-0.5	Aroclor 5460	J	36	47	PQL	UG/KG	J (all detects)

**Method:** 8270C SIM

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-510-SA5C-SB-0.0-0.5	ANTHRACENE	J	5.1	12	PQL	UG/KG	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	4.3	12	PQL	UG/KG	
SL-513-SA5C-SB-0.0-0.5	FLUORANTHENE	J	6.8	23	PQL	UG/KG	J (all detects)
	PYRENE	J	5.9	23	PQL	UG/KG	
SL-515-SA5C-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	3.3	11	PQL	UG/KG	J (all detects)
	FLUORANTHENE	J	5.7	11	PQL	UG/KG	
	PHENANTHRENE	J	3.2	11	PQL	UG/KG	
	PYRENE	J	4.6	11	PQL	UG/KG	

## Reporting Limit Outliers

Lab Reporting Batch ID: 12D175

Laboratory: EMXT

EDD Filename: 12D175

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-516-SA5C-SB-0.0-0.5	ACENAPHTHENE	J	6.3	23	PQL	UG/KG	J (all detects)
	ACENAPHTHYLENE	J	8.1	23	PQL	UG/KG	
	ANTHRACENE	J	21	23	PQL	UG/KG	
	DIBENZO(A,H)ANTHRACENE	J	19	23	PQL	UG/KG	
	FLUORENE	J	7.1	23	PQL	UG/KG	
SL-516-SA5C-SB-4.0-5.0	FLUORANTHENE	J	5.1	12	PQL	UG/KG	J (all detects)
	PYRENE	J	4.2	12	PQL	UG/KG	
SL-518-SA5C-SB-0.0-0.5	BENZO(A)PYRENE	J	7.9	21	PQL	UG/KG	J (all detects)
	BENZO(B)FLUORANTHENE	J	16	21	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	19	21	PQL	UG/KG	
	FLUORANTHENE	J	8.6	21	PQL	UG/KG	
	INDENO(1,2,3-CD)PYRENE	J	7.4	21	PQL	UG/KG	
	PYRENE	J	8.3	21	PQL	UG/KG	
SL-575-SA5C-SB-0.0-0.5	BENZO(A)PYRENE	J	3.7	12	PQL	UG/KG	J (all detects)
	BENZO(B)FLUORANTHENE	J	6.1	12	PQL	UG/KG	
	BENZO(E)PYRENE	J	3.9	5.9	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	3.2	12	PQL	UG/KG	
	CHRYSENE	J	4.5	12	PQL	UG/KG	
	FLUORANTHENE	J	9.4	12	PQL	UG/KG	
	PHENANTHRENE	J	4.0	12	PQL	UG/KG	
	PYRENE	J	8.2	12	PQL	UG/KG	

LDC #: 28558E4  
 SDG #: 12D175  
 Laboratory: EMAX Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 ADR

Date: 11-5-12  
 Page: 1 of 1  
 Reviewer: CL  
 2nd Reviewer: [Signature]

**METHOD:** Metals (EPA SW 846 Method-6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	—	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	—	
VI.	Matrix Spike Analysis	N	MS/D (from 12/01/91) #5 from 12/20/55
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	SW	EB=EB 071112

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet  
 ND = No compounds detected  
 R = Rinsate  
 FB = Field blank  
 D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

(126064)

Validated Samples:

*soil/water*

1	EB-041912	W	11		21		31	
2	SL-513-SA5C-SB-0.0-0.5		12		22		32	
3	SL-515-SA5C-SB-0.0-0.5		13		23		33	
4	SL-516-SA5C-SB-0.0-0.5		14		24		34	
5	SL-516-SA5C-SB-4.0-5.0		15		25		35	
6	SL-575-SA5C-SB-0.0-0.5		16		26		36	
7	SL-510-SA5C-SB-0.0-0.5		17		27		37	
8	SL-518-SA5C-SB-0.0-0.5		18		28		38	
9	SL-517-SA5C-SB-0.0-0.5		19		29		39	
10			20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** ug/L **Associated sample units:** mg/Kg  
**Sampling date:** 7/11/12 **Soil factor applied:** 50x  
**Field blank type:** (circle one) Field Blank / Rinsate / Other:

Associated Samples: All

Sample Identification			
Analyte	Blank ID	Action Limit	No Qualifiers
	FB-071112		
Al	0.0296	7.4	
Cu	0.00102	0.255	
Ni	0.000204	0.051	

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
 Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# **SAMPLE DELIVERY GROUP**

**12D191**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5	D191-02	N	3550B	8082	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5	D191-02	N	3550B	8270C SIM	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5	D191-02	N	7471A	7471A	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5	D191-02	N	GEN PREP	6850	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5MS	D191-02M	MS	3550B	8082	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5MS	D191-02M	MS	3550B	8270C SIM	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5MS	D191-02M	MS	7471A	7471A	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5MS	D191-02M	MS	GEN PREP	6850	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5MS	D191-02M	MS	TOTAL	6020	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5MSD	D191-02S	MSD	3550B	8082	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5MSD	D191-02S	MSD	3550B	8270C SIM	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5MSD	D191-02S	MSD	7471A	7471A	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5MSD	D191-02S	MSD	GEN PREP	6850	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5MSD	D191-02S	MSD	TOTAL	6020	III
20-Apr-2012	SL-502-SA5C-SB-0.0-0.5	D191-02W	N	TOTAL	6020	III
20-Apr-2012	SL-802-SA5C-SB-0.0-0.5	D191-03	FD	3550B	8082	III
20-Apr-2012	SL-802-SA5C-SB-0.0-0.5	D191-03	FD	3550B	8270C SIM	III
20-Apr-2012	SL-802-SA5C-SB-0.0-0.5	D191-03	FD	7471A	7471A	III
20-Apr-2012	SL-802-SA5C-SB-0.0-0.5	D191-03	FD	GEN PREP	6850	III
20-Apr-2012	SL-802-SA5C-SB-0.0-0.5	D191-03W	FD	TOTAL	6020	III
20-Apr-2012	SL-501-SA5C-SB-0.0-0.5	D191-01	N	3550B	8082	III
20-Apr-2012	SL-501-SA5C-SB-0.0-0.5	D191-01	N	3550B	8270C SIM	III
20-Apr-2012	SL-501-SA5C-SB-0.0-0.5	D191-01	N	7471A	7471A	III
20-Apr-2012	SL-501-SA5C-SB-0.0-0.5	D191-01	N	GEN PREP	6850	III
20-Apr-2012	SL-501-SA5C-SB-0.0-0.5	D191-01W	N	TOTAL	6020	III
20-Apr-2012	SL-509-SA5C-SB-0.0-0.5	D191-06	N	3550B	8082	III

III = EPA Level 3 Data Review  
IV = EPA Level 4 Data Validation

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Apr-2012	SL-509-SA5C-SB-0.0-0.5	D191-06	N	3550B	8270C SIM	III
20-Apr-2012	SL-509-SA5C-SB-0.0-0.5	D191-06	N	7471A	7471A	III
20-Apr-2012	SL-509-SA5C-SB-0.0-0.5	D191-06	N	GEN PREP	6850	III
20-Apr-2012	SL-509-SA5C-SB-0.0-0.5	D191-06W	N	TOTAL	6020	III
20-Apr-2012	SL-507-SA5C-SB-0.0-0.5	D191-04	N	3550B	8082	III
20-Apr-2012	SL-507-SA5C-SB-0.0-0.5	D191-04	N	3550B	8270C SIM	III
20-Apr-2012	SL-507-SA5C-SB-0.0-0.5	D191-04	N	7471A	7471A	III
20-Apr-2012	SL-507-SA5C-SB-0.0-0.5	D191-04	N	GEN PREP	6850	III
20-Apr-2012	SL-507-SA5C-SB-0.0-0.5	D191-04W	N	TOTAL	6020	III
20-Apr-2012	SL-508-SA5C-SB-0.0-0.5	D191-05	N	3550B	8082	III
20-Apr-2012	SL-508-SA5C-SB-0.0-0.5	D191-05	N	3550B	8270C SIM	III
20-Apr-2012	SL-508-SA5C-SB-0.0-0.5	D191-05	N	7471A	7471A	III
20-Apr-2012	SL-508-SA5C-SB-0.0-0.5	D191-05	N	GEN PREP	6850	III
20-Apr-2012	SL-508-SA5C-SB-0.0-0.5	D191-05W	N	TOTAL	6020	III
20-Apr-2012	SL-574-SA5C-SB-0.0-0.5	D191-07	N	3550B	8082	III
20-Apr-2012	SL-574-SA5C-SB-0.0-0.5	D191-07	N	3550B	8270C SIM	III
20-Apr-2012	SL-574-SA5C-SB-0.0-0.5	D191-07	N	7471A	7471A	III
20-Apr-2012	SL-574-SA5C-SB-0.0-0.5	D191-07	N	GEN PREP	6850	III
20-Apr-2012	SL-574-SA5C-SB-0.0-0.5	D191-07W	N	TOTAL	6020	III
20-Apr-2012	SL-633-SA5C-SB-0.0-0.5	D191-08	N	3550B	8082	III
20-Apr-2012	SL-633-SA5C-SB-2.0-3.0	D191-09	N	3550B	8082	III
20-Apr-2012	SL-634-SA5C-SB-0.0-0.5	D191-10	N	3550B	8082	III
20-Apr-2012	SL-634-SA5C-SB-2.0-3.0	D191-11	N	3550B	8082	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: 12D191

Laboratory: EMXT

EDD Filename: Prep12D191

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-501-SA5C-SB-0.0-0.5

Collected: 4/20/2012 9:30:00

Analysis Type: RES/TOT

Dilution: 0.980

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.203	J	0.109	MDL	0.543	PQL	MG/KG	J	Z, Q
BERYLLIUM	0.519	J	0.0543	MDL	0.543	PQL	MG/KG	J	Z
CADMIUM	0.437	J	0.0543	MDL	0.543	PQL	MG/KG	J	Z
MOLYBDENUM	0.393	J	0.0543	MDL	0.543	PQL	MG/KG	J	Z
SODIUM	73.1	J	54.3	MDL	109	PQL	MG/KG	J	Z
THALLIUM	0.241	J	0.0543	MDL	0.434	PQL	MG/KG	J	Z
Zirconium	5.43	U	2.71	MDL	5.43	PQL	MG/KG	UJ	Q

Sample ID: SL-502-SA5C-SB-0.0-0.5

Collected: 4/20/2012 8:50:00

Analysis Type: RES/TOT

Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.222	J	0.119	MDL	0.593	PQL	MG/KG	J	Z, Q
BORON	3.73	J	2.97	MDL	5.93	PQL	MG/KG	J	Z
CADMIUM	0.350	J	0.0593	MDL	0.593	PQL	MG/KG	J	Z
MOLYBDENUM	0.492	J	0.0593	MDL	0.593	PQL	MG/KG	J	Z
SILVER	0.390	J	0.0593	MDL	0.593	PQL	MG/KG	J	Z
SODIUM	77.6	J	59.3	MDL	119	PQL	MG/KG	J	Z
THALLIUM	0.273	J	0.0593	MDL	0.474	PQL	MG/KG	J	Z
Zirconium	5.93	U	2.97	MDL	5.93	PQL	MG/KG	UJ	Q

Sample ID: SL-507-SA5C-SB-0.0-0.5

Collected: 4/20/2012 10:45:00

Analysis Type: RES/TOT

Dilution: 0.985

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.209	J	0.109	MDL	0.544	PQL	MG/KG	J	Z, Q
BORON	3.68	J	2.72	MDL	5.44	PQL	MG/KG	J	Z
CADMIUM	0.417	J	0.0544	MDL	0.544	PQL	MG/KG	J	Z
SODIUM	72.5	J	54.4	MDL	109	PQL	MG/KG	J	Z
THALLIUM	0.288	J	0.0544	MDL	0.435	PQL	MG/KG	J	Z
Zirconium	5.44	U	2.72	MDL	5.44	PQL	MG/KG	UJ	Q

Sample ID: SL-508-SA5C-SB-0.0-0.5

Collected: 4/20/2012 11:05:00

Analysis Type: RES/TOT

Dilution: 0.990

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.182	J	0.108	MDL	0.541	PQL	MG/KG	J	Z, Q
BERYLLIUM	0.473	J	0.0541	MDL	0.541	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/26/2012 7:41:31 AM

ADR version 1.6.0.194

Page 1 of 6

# Data Qualifier Summary

Lab Reporting Batch ID: 12D191

Laboratory: EMXT

EDD Filename: Prep12D191

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	<b>Method:</b>	6020	<b>Matrix:</b>	SO
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Sample ID: SL-508-SA5C-SB-0.0-0.5      Collected: 4/20/2012 11:05:00      Analysis Type: RES/TOT      Dilution: 0.990

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BORON	3.17	J	2.70	MDL	5.41	PQL	MG/KG	J	Z
CADMIUM	0.326	J	0.0541	MDL	0.541	PQL	MG/KG	J	Z
MOLYBDENUM	0.419	J	0.0541	MDL	0.541	PQL	MG/KG	J	Z
THALLIUM	0.240	J	0.0541	MDL	0.433	PQL	MG/KG	J	Z
Zirconium	5.41	U	2.70	MDL	5.41	PQL	MG/KG	UJ	Q

Sample ID: SL-509-SA5C-SB-0.0-0.5      Collected: 4/20/2012 10:05:00      Analysis Type: RES/TOT      Dilution: 0.990

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.176	J	0.107	MDL	0.533	PQL	MG/KG	J	Z, Q
BERYLLIUM	0.492	J	0.0533	MDL	0.533	PQL	MG/KG	J	Z
BORON	2.78	J	2.67	MDL	5.33	PQL	MG/KG	J	Z
THALLIUM	0.260	J	0.0533	MDL	0.427	PQL	MG/KG	J	Z
Zirconium	5.33	U	2.67	MDL	5.33	PQL	MG/KG	UJ	Q

Sample ID: SL-574-SA5C-SB-0.0-0.5      Collected: 4/20/2012 1:00:00      Analysis Type: RES/TOT      Dilution: 0.966

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.523	J	0.113	MDL	0.564	PQL	MG/KG	J	Z, Q
BORON	5.24	J	2.82	MDL	5.64	PQL	MG/KG	J	Z
CADMIUM	0.381	J	0.0564	MDL	0.564	PQL	MG/KG	J	Z
SODIUM	82.7	J	56.4	MDL	113	PQL	MG/KG	J	Z
THALLIUM	0.302	J	0.0564	MDL	0.451	PQL	MG/KG	J	Z
Zirconium	5.64	U	2.82	MDL	5.64	PQL	MG/KG	UJ	Q

Sample ID: SL-802-SA5C-SB-0.0-0.5      Collected: 4/20/2012 8:55:00      Analysis Type: RES/TOT      Dilution: 0.980

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.178	J	0.113	MDL	0.563	PQL	MG/KG	J	Z, Q
BORON	2.84	J	2.82	MDL	5.63	PQL	MG/KG	J	Z
CADMIUM	0.305	J	0.0563	MDL	0.563	PQL	MG/KG	J	Z
MOLYBDENUM	0.419	J	0.0563	MDL	0.563	PQL	MG/KG	J	Z
SILVER	0.322	J	0.0563	MDL	0.563	PQL	MG/KG	J	Z
SODIUM	70.9	J	56.3	MDL	113	PQL	MG/KG	J	Z
THALLIUM	0.265	J	0.0563	MDL	0.451	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

# Data Qualifier Summary

Lab Reporting Batch ID: 12D191

Laboratory: EMXT

EDD Filename: Prep12D191

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	<b>METALS</b>									
<b>Method:</b>	6020									
		<b>Matrix: SO</b>								

Sample ID: SL-802-SA5C-SB-0.0-0.5      Collected: 4/20/2012 8:55:00      Analysis Type: RES/TOT      Dilution: 0.980

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Zirconium	5.63	U	2.82	MDL	5.63	PQL	MG/KG	UJ	Q

<b>Method Category:</b>	<b>METALS</b>									
<b>Method:</b>	7471A									
		<b>Matrix: SO</b>								

Sample ID: SL-501-SA5C-SB-0.0-0.5      Collected: 4/20/2012 9:30:00      Analysis Type: RES/TOT      Dilution: 0.988

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0762	J	0.0547	MDL	0.109	PQL	MG/KG	J	Z

<b>Method Category:</b>	<b>SVOA</b>									
<b>Method:</b>	8270C SIM									
		<b>Matrix: SO</b>								

Sample ID: SL-501-SA5C-SB-0.0-0.5      Collected: 4/20/2012 9:30:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	3.4	J	2.8	MDL	11	PQL	UG/KG	J	Z
BENZO(A)PYRENE	8.1	J	2.8	MDL	11	PQL	UG/KG	J	Z
BENZO(K)FLUORANTHENE	3.2	J	2.8	MDL	11	PQL	UG/KG	J	Z
CHRYSENE	7.2	J	2.8	MDL	11	PQL	UG/KG	J	Z
DIBENZO(A,H)ANTHRACENE	3.2	J	2.8	MDL	11	PQL	UG/KG	J	Z
FLUORANTHENE	7.9	J	2.8	MDL	11	PQL	UG/KG	J	Z
PHENANTHRENE	5.2	J	2.8	MDL	11	PQL	UG/KG	J	Z
PYRENE	6.3	J	2.8	MDL	11	PQL	UG/KG	J	Z

Sample ID: SL-502-SA5C-SB-0.0-0.5      Collected: 4/20/2012 8:50:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	3.1	J	3.0	MDL	12	PQL	UG/KG	J	Z, FD
BENZO(B)FLUORANTHENE	7.4	J	3.0	MDL	12	PQL	UG/KG	J	Z, FD
BENZO(E)PYRENE	5.4	J	3.0	MDL	5.9	PQL	UG/KG	J	Z, FD
BENZO(G,H,I)PERYLENE	5.0	J	3.0	MDL	12	PQL	UG/KG	J	Z, FD
CHRYSENE	4.9	J	3.0	MDL	12	PQL	UG/KG	J	Z, FD
FLUORANTHENE	12	J	3.0	MDL	12	PQL	UG/KG	J	FD

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D191

Laboratory: EMXT

EDD Filename: Prep12D191

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-502-SA5C-SB-0.0-0.5 Collected: 4/20/2012 8:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
INDENO(1,2,3-CD)PYRENE	5.0	J	3.0	MDL	12	PQL	UG/KG	J	Z, FD
PHENANTHRENE	5.0	J	3.0	MDL	12	PQL	UG/KG	J	Z
PYRENE	7.9	J	3.0	MDL	12	PQL	UG/KG	J	Z

Sample ID: SL-507-SA5C-SB-0.0-0.5 Collected: 4/20/2012 10:45:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	2.8	J	2.8	MDL	11	PQL	UG/KG	J	Z
BENZO(A)PYRENE	2.8	J	2.8	MDL	11	PQL	UG/KG	J	Z
BENZO(B)FLUORANTHENE	5.9	J	2.8	MDL	11	PQL	UG/KG	J	Z
CHRYSENE	3.3	J	2.8	MDL	11	PQL	UG/KG	J	Z
FLUORANTHENE	5.6	J	2.8	MDL	11	PQL	UG/KG	J	Z
PYRENE	4.4	J	2.8	MDL	11	PQL	UG/KG	J	Z

Sample ID: SL-508-SA5C-SB-0.0-0.5 Collected: 4/20/2012 11:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	5.0	J	2.7	MDL	11	PQL	UG/KG	J	Z
BENZO(B)FLUORANTHENE	9.5	J	2.7	MDL	11	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	2.8	J	2.7	MDL	11	PQL	UG/KG	J	Z
CHRYSENE	5.1	J	2.7	MDL	11	PQL	UG/KG	J	Z
FLUORANTHENE	9.2	J	2.7	MDL	11	PQL	UG/KG	J	Z
PHENANTHRENE	3.0	J	2.7	MDL	11	PQL	UG/KG	J	Z
PYRENE	7.8	J	2.7	MDL	11	PQL	UG/KG	J	Z

Sample ID: SL-509-SA5C-SB-0.0-0.5 Collected: 4/20/2012 10:05:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	3.0	J	2.7	MDL	11	PQL	UG/KG	J	Z
BENZO(A)PYRENE	3.1	J	2.7	MDL	11	PQL	UG/KG	J	Z
BENZO(B)FLUORANTHENE	5.4	J	2.7	MDL	11	PQL	UG/KG	J	Z
BENZO(E)PYRENE	3.1	J	2.7	MDL	5.4	PQL	UG/KG	J	Z
CHRYSENE	3.1	J	2.7	MDL	11	PQL	UG/KG	J	Z
FLUORANTHENE	6.2	J	2.7	MDL	11	PQL	UG/KG	J	Z
PYRENE	5.6	J	2.7	MDL	11	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

# Data Qualifier Summary

Lab Reporting Batch ID: 12D191

Laboratory: EMXT

EDD Filename: Prep12D191

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-574-SA5C-SB-0.0-0.5 Collected: 4/20/2012 1:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	8.0	J	5.8	MDL	23	PQL	UG/KG	J	Z
BENZO(B)FLUORANTHENE	8.4	J	5.8	MDL	23	PQL	UG/KG	J	Z
BENZO(E)PYRENE	11	J	5.8	MDL	12	PQL	UG/KG	J	Z

Sample ID: SL-802-SA5C-SB-0.0-0.5 Collected: 4/20/2012 8:55:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	FD
BENZO(B)FLUORANTHENE	4.0	J	2.9	MDL	11	PQL	UG/KG	J	Z, FD
BENZO(E)PYRENE	3.0	J	2.9	MDL	5.7	PQL	UG/KG	J	Z, FD
BENZO(G,H,I)PERYLENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	FD
CHRYSENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	FD
FLUORANTHENE	7.1	J	2.9	MDL	11	PQL	UG/KG	J	Z, FD
INDENO(1,2,3-CD)PYRENE	11	U	2.9	MDL	11	PQL	UG/KG	UJ	FD
PHENANTHRENE	4.3	J	2.9	MDL	11	PQL	UG/KG	J	Z
PYRENE	4.8	J	2.9	MDL	11	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D191

Laboratory: EMXT

EDD Filename: Prep12D191

eQAPP Name: CDM\_SSFL\_120730\_EMAX

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
FD	Field Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Upper Estimation
S	Surrogate/Tracer Recovery Lower Estimation
S	Surrogate/Tracer Recovery Upper Estimation
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

12D191

# Surrogate Outlier Report

Lab Reporting Batch ID: 12D191

Laboratory: EMXT

EDD Filename: 12D191

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 8082

Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-509-SA5C-SB- 0.0-0.5	DECACHLOROBIPHENYL	166	45.00-120.00	All Target Analytes	J (all detects)

Method: 8270C SIM

Matrix: SO

Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag
SL-509-SA5C-SB- 0.0-0.5	2-FLUOROBIPHENYL	42.6	45.00-130.00	No Affected Compounds	

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 12D191

Laboratory: EMXT

EDD Filename: 12D191

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-502-SA5C-SB-0.0-0.5MS (TOT)	IRON	133	-	75.00-125.00	-	IRON	No Qual, >4x
SL-502-SA5C-SB-0.0-0.5MSD (TOT)	MANGANESE	193	140	75.00-125.00	-	MANGANESE	
(SL-501-SA5C-SB-0.0-0.5	TITANIUM	218	137	75.00-125.00	-	TITANIUM	
SL-502-SA5C-SB-0.0-0.5							
SL-507-SA5C-SB-0.0-0.5							
SL-508-SA5C-SB-0.0-0.5							
SL-509-SA5C-SB-0.0-0.5							
SL-574-SA5C-SB-0.0-0.5							
SL-802-SA5C-SB-0.0-0.5)							
SL-502-SA5C-SB-0.0-0.5MS (TOT)	ANTIMONY	62	66	75.00-125.00	-	ANTIMONY	J(all detects) UJ(all non-detects)
SL-502-SA5C-SB-0.0-0.5MSD (TOT)	Zirconium	63	60	75.00-125.00	-	Zirconium	
(SL-501-SA5C-SB-0.0-0.5							
SL-502-SA5C-SB-0.0-0.5							
SL-507-SA5C-SB-0.0-0.5							
SL-508-SA5C-SB-0.0-0.5							
SL-509-SA5C-SB-0.0-0.5							
SL-574-SA5C-SB-0.0-0.5							
SL-802-SA5C-SB-0.0-0.5)							

# Field Duplicate RPD Report

Lab Reporting Batch ID: 12D191

Laboratory: EMXT

EDD Filename: Prep12D191

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 6020

Matrix: SO

Analyte	Concentration (MG/KG)		Sample RPD	eQAPP RPD	Flag
	SL-502-SA5C-SB-0.0-0.5 (TOT)	SL-802-SA5C-SB-0.0-0.5 (TOT)			
ALUMINUM	20000	15900	23	50.00	No Qualifiers Applied
ANTIMONY	0.222	0.178	22	50.00	
ARSENIC	5.69	4.85	16	50.00	
BARIUM	120	100	18	50.00	
BERYLLIUM	0.765	0.643	17	50.00	
BORON	3.73	2.84	27	50.00	
CADMIUM	0.350	0.305	14	50.00	
CALCIUM	3760	3030	22	50.00	
CHROMIUM	23.4	19.9	16	50.00	
COBALT	6.79	6.49	5	50.00	
COPPER	13.2	11.3	16	50.00	
IRON	22400	20600	8	50.00	
LEAD	12.1	9.38	25	50.00	
LITHIUM	23.5	25.0	6	50.00	
MAGNESIUM	4640	4500	3	50.00	
MANGANESE	297	311	5	50.00	
MOLYBDENUM	0.492	0.419	16	50.00	
NICKEL	13.7	11.8	15	50.00	
PHOSPHORUS	241	278	14	50.00	
POTASSIUM	3470	3430	1	50.00	
SILVER	0.390	0.322	19	50.00	
SODIUM	77.6	70.9	9	50.00	
STRONTIUM	28.7	21.7	28	50.00	
THALLIUM	0.273	0.265	3	50.00	
TITANIUM	856	876	2	50.00	
VANADIUM	42.8	36.4	16	50.00	
ZINC	58.5	57.3	2	50.00	

Method: 8270C SIM

Matrix: SO

Analyte	Concentration (UG/KG)		Sample RPD	eQAPP RPD	Flag
	SL-502-SA5C-SB-0.0-0.5	SL-802-SA5C-SB-0.0-0.5			
PHENANTHRENE	5.0	4.3	15	50.00	No Qualifiers Applied
PYRENE	7.9	4.8	49	50.00	
BENZO(A)ANTHRACENE	3.1	11 U	200	50.00	J(all detects) UJ(all non-detects)
BENZO(B)FLUORANTHENE	7.4	4.0	60	50.00	
BENZO(E)PYRENE	5.4	3.0	57	50.00	
BENZO(G,H,I)PERYLENE	5.0	11 U	200	50.00	
CHRYSENE	4.9	11 U	200	50.00	
FLUORANTHENE	12	7.1	51	50.00	
INDENO(1,2,3-CD)PYRENE	5.0	11 U	200	50.00	

Method: 9045D

Matrix: SO

Analyte	Concentration (PH UNIT)		Sample RPD	eQAPP RPD	Flag
	SL-502-SA5C-SB-0.0-0.5	SL-802-SA5C-SB-0.0-0.5			
PH	7.37	7.50	2		No Qualifiers Applied

# Reporting Limit Outliers

Lab Reporting Batch ID: 12D191

Laboratory: EMXT

EDD Filename: 12D191

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 6020  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-501-SA5C-SB-0.0-0.5	ANTIMONY	J	0.203	0.543	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.519	0.543	PQL	MG/KG	
	CADMIUM	J	0.437	0.543	PQL	MG/KG	
	MOLYBDENUM	J	0.393	0.543	PQL	MG/KG	
	SODIUM	J	73.1	109	PQL	MG/KG	
	THALLIUM	J	0.241	0.434	PQL	MG/KG	
SL-502-SA5C-SB-0.0-0.5	ANTIMONY	J	0.222	0.593	PQL	MG/KG	J (all detects)
	BORON	J	3.73	5.93	PQL	MG/KG	
	CADMIUM	J	0.350	0.593	PQL	MG/KG	
	MOLYBDENUM	J	0.492	0.593	PQL	MG/KG	
	SILVER	J	0.390	0.593	PQL	MG/KG	
	THALLIUM	J	77.6	119	PQL	MG/KG	
SL-507-SA5C-SB-0.0-0.5	ANTIMONY	J	0.209	0.544	PQL	MG/KG	J (all detects)
	BORON	J	3.68	5.44	PQL	MG/KG	
	CADMIUM	J	0.417	0.544	PQL	MG/KG	
	SODIUM	J	72.5	109	PQL	MG/KG	
	THALLIUM	J	0.288	0.435	PQL	MG/KG	
SL-508-SA5C-SB-0.0-0.5	ANTIMONY	J	0.182	0.541	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.473	0.541	PQL	MG/KG	
	BORON	J	3.17	5.41	PQL	MG/KG	
	CADMIUM	J	0.326	0.541	PQL	MG/KG	
	MOLYBDENUM	J	0.419	0.541	PQL	MG/KG	
	THALLIUM	J	0.240	0.433	PQL	MG/KG	
SL-509-SA5C-SB-0.0-0.5	ANTIMONY	J	0.176	0.533	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.492	0.533	PQL	MG/KG	
	BORON	J	2.78	5.33	PQL	MG/KG	
	THALLIUM	J	0.260	0.427	PQL	MG/KG	
SL-574-SA5C-SB-0.0-0.5	ANTIMONY	J	0.523	0.564	PQL	MG/KG	J (all detects)
	BORON	J	5.24	5.64	PQL	MG/KG	
	CADMIUM	J	0.381	0.564	PQL	MG/KG	
	SODIUM	J	82.7	113	PQL	MG/KG	
	THALLIUM	J	0.302	0.451	PQL	MG/KG	
SL-802-SA5C-SB-0.0-0.5	ANTIMONY	J	0.178	0.563	PQL	MG/KG	J (all detects)
	BORON	J	2.84	5.63	PQL	MG/KG	
	CADMIUM	J	0.305	0.563	PQL	MG/KG	
	MOLYBDENUM	J	0.419	0.563	PQL	MG/KG	
	SILVER	J	0.322	0.563	PQL	MG/KG	
	SODIUM	J	70.9	113	PQL	MG/KG	
	THALLIUM	J	0.265	0.451	PQL	MG/KG	

**Method:** 7471A  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-501-SA5C-SB-0.0-0.5	MERCURY	J	0.0762	0.109	PQL	MG/KG	J (all detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: 12D191

Laboratory: EMXT

EDD Filename: 12D191

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 8270C SIM  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-501-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	3.4	11	PQL	UG/KG	J (all detects)
	BENZO(A)PYRENE	J	8.1	11	PQL	UG/KG	
	BENZO(K)FLUORANTHENE	J	3.2	11	PQL	UG/KG	
	CHRYSENE	J	7.2	11	PQL	UG/KG	
	DIBENZO(A,H)ANTHRACENE	J	3.2	11	PQL	UG/KG	
	FLUORANTHENE	J	7.9	11	PQL	UG/KG	
	PHENANTHRENE	J	5.2	11	PQL	UG/KG	
PYRENE	J	6.3	11	PQL	UG/KG		
SL-502-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	3.1	12	PQL	UG/KG	J (all detects)
	BENZO(B)FLUORANTHENE	J	7.4	12	PQL	UG/KG	
	BENZO(E)PYRENE	J	5.4	5.9	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	5.0	12	PQL	UG/KG	
	CHRYSENE	J	4.9	12	PQL	UG/KG	
	INDENO(1,2,3-CD)PYRENE	J	5.0	12	PQL	UG/KG	
	PHENANTHRENE	J	5.0	12	PQL	UG/KG	
PYRENE	J	7.9	12	PQL	UG/KG		
SL-507-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	2.8	11	PQL	UG/KG	J (all detects)
	BENZO(A)PYRENE	J	2.8	11	PQL	UG/KG	
	BENZO(B)FLUORANTHENE	J	5.9	11	PQL	UG/KG	
	CHRYSENE	J	3.3	11	PQL	UG/KG	
	FLUORANTHENE	J	5.6	11	PQL	UG/KG	
PYRENE	J	4.4	11	PQL	UG/KG		
SL-508-SA5C-SB-0.0-0.5	BENZO(A)PYRENE	J	5.0	11	PQL	UG/KG	J (all detects)
	BENZO(B)FLUORANTHENE	J	9.5	11	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	2.8	11	PQL	UG/KG	
	CHRYSENE	J	5.1	11	PQL	UG/KG	
	FLUORANTHENE	J	9.2	11	PQL	UG/KG	
	PHENANTHRENE	J	3.0	11	PQL	UG/KG	
PYRENE	J	7.8	11	PQL	UG/KG		
SL-509-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	3.0	11	PQL	UG/KG	J (all detects)
	BENZO(A)PYRENE	J	3.1	11	PQL	UG/KG	
	BENZO(B)FLUORANTHENE	J	5.4	11	PQL	UG/KG	
	BENZO(E)PYRENE	J	3.1	5.4	PQL	UG/KG	
	CHRYSENE	J	3.1	11	PQL	UG/KG	
	FLUORANTHENE	J	6.2	11	PQL	UG/KG	
PYRENE	J	5.6	11	PQL	UG/KG		
SL-574-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	8.0	23	PQL	UG/KG	J (all detects)
	BENZO(B)FLUORANTHENE	J	8.4	23	PQL	UG/KG	
	BENZO(E)PYRENE	J	11	12	PQL	UG/KG	
SL-802-SA5C-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	4.0	11	PQL	UG/KG	J (all detects)
	BENZO(E)PYRENE	J	3.0	5.7	PQL	UG/KG	
	FLUORANTHENE	J	7.1	11	PQL	UG/KG	
	PHENANTHRENE	J	4.3	11	PQL	UG/KG	
	PYRENE	J	4.8	11	PQL	UG/KG	

LDC #: 28558F4  
 SDG #: 12D191  
 Laboratory: EMAX Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 ADR

Date: 11-5-12  
 Page: 1 of 1  
 Reviewer: [Signature]  
 2nd Reviewer: [Signature]

**METHOD:** Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	—	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	—	
VI.	Matrix Spike Analysis	N	MS/D (Fe, Mn, Ti 74X)
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	SW	EB = EB3041912 (12AD175)

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

FB = FB-071112  
 (126064)

Validated Samples:

So.1

1	SL-501-SA5C-SB-0.0-0.5	11		21		31	
2	SL-502-SA5C-SB-0.0-0.5	12		22		32	
3	SL-802-SA5C-SB-0.0-0.5	13		23		33	
4	SL-507-SA5C-SB-0.0-0.5	14		24		34	
5	SL-508-SA5C-SB-0.0-0.5	15		25		35	
6	SL-509-SA5C-SB-0.0-0.5	16		26		36	
7	SL-574-SA5C-SB-0.0-0.5	17		27		37	
8	SL-502-SA5C-SB-0.0-0.5MS	18		28		38	
9	SL-502-SA5C-SB-0.0-0.5MSD	19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** ug/L **Associated sample units:** mg/Kg  
**Sampling date:** 7/11/12 Soil factor applied 50x  
**Field blank type:** (circle one) Field Blank / Rinsate / Other: \_\_\_\_\_ Associated Samples: All

Analyte	Blank ID	Action Limit	No Qualifiers	Sample Identification				
	FB-071112							
Al	0.0296	7.4						
Cu	0.00102	0.255						
Ni	0.000204	0.051						

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
 Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# **SAMPLE DELIVERY GROUP**

**12D198**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
23-Apr-2012	SL-635-SA5C-SB-0.0-0.5	D198-02	N	3550B	8082	III
23-Apr-2012	SL-632-SA5C-SB-0.0-0.5	D198-04	N	3550B	8082	III
23-Apr-2012	SL-632-SA5C-SB-2.0-3.0	D198-05	N	3550B	8082	III
23-Apr-2012	SL-512-SA5C-SB-0.0-0.5	D198-01	N	3550B	8015B EFH	III
23-Apr-2012	SL-512-SA5C-SB-0.0-0.5	D198-01	N	3550B	8082	III
23-Apr-2012	SL-512-SA5C-SB-0.0-0.5	D198-01	N	3550B	8270C SIM	III
23-Apr-2012	SL-512-SA5C-SB-0.0-0.5	D198-01	N	7471A	7471A	III
23-Apr-2012	SL-512-SA5C-SB-0.0-0.5	D198-01	N	GEN PREP	6850	III
23-Apr-2012	SL-512-SA5C-SB-0.0-0.5	D198-01	N	TOTAL	6020	III
23-Apr-2012	SL-532-SA5C-SB-0.0-0.5	D198-07	N	3550B	8082	III
23-Apr-2012	SL-532-SA5C-SB-0.0-0.5	D198-07	N	3550B	8270C SIM	III
23-Apr-2012	SL-532-SA5C-SB-0.0-0.5	D198-07	N	7471A	7471A	III
23-Apr-2012	SL-532-SA5C-SB-0.0-0.5	D198-07	N	GEN PREP	7199	III
23-Apr-2012	SL-532-SA5C-SB-0.0-0.5	D198-07	N	TOTAL	6020	III
23-Apr-2012	SL-520-SA5C-SB-0.0-0.5	D198-06	N	3550B	8082	III
23-Apr-2012	SL-520-SA5C-SB-0.0-0.5	D198-06	N	3550B	8270C SIM	III
23-Apr-2012	SL-520-SA5C-SB-0.0-0.5	D198-06	N	7471A	7471A	III
23-Apr-2012	SL-520-SA5C-SB-0.0-0.5	D198-06	N	GEN PREP	6850	III
23-Apr-2012	SL-520-SA5C-SB-0.0-0.5	D198-06	N	GEN PREP	7199	III
23-Apr-2012	SL-520-SA5C-SB-0.0-0.5	D198-06	N	TOTAL	6020	III
23-Apr-2012	SL-533-SA5C-SB-0.0-0.5	D198-08	N	3550B	8082	III
23-Apr-2012	SL-533-SA5C-SB-0.0-0.5	D198-08	N	7471A	7471A	III
23-Apr-2012	SL-533-SA5C-SB-0.0-0.5	D198-08	N	GEN PREP	6850	III
23-Apr-2012	SL-533-SA5C-SB-0.0-0.5	D198-08	N	TOTAL	6020	III
23-Apr-2012	SL-533-SA5C-SB-0.0-0.5	D198-08W	N	3550B	8270C SIM	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: 12D198

Laboratory: EMXT

EDD Filename: 12D198

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method Category: METALS

Method: 6020

Matrix: SO

Sample ID: SL-512-SA5C-SB-0.0-0.5

Collected: 4/23/2012 11:20:00

Analysis Type: RES/TOT

Dilution: 0.985

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.197	J	0.112	MDL	0.558	PQL	MG/KG	J	Z
BORON	2.84	J	2.79	MDL	5.58	PQL	MG/KG	J	Z
CADMIUM	0.375	J	0.0558	MDL	0.558	PQL	MG/KG	J	Z
MOLYBDENUM	0.521	J	0.0558	MDL	0.558	PQL	MG/KG	J	Z
THALLIUM	0.218	J	0.0558	MDL	0.446	PQL	MG/KG	J	Z

Sample ID: SL-520-SA5C-SB-0.0-0.5

Collected: 4/23/2012 2:15:00

Analysis Type: RES/TOT

Dilution: 0.976

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.169	J	0.108	MDL	0.539	PQL	MG/KG	J	Z
BERYLLIUM	0.478	J	0.0539	MDL	0.539	PQL	MG/KG	J	Z
BORON	3.01	J	2.70	MDL	5.39	PQL	MG/KG	J	Z
CADMIUM	0.273	J	0.0539	MDL	0.539	PQL	MG/KG	J	Z
SILVER	0.0578	J	0.0539	MDL	0.539	PQL	MG/KG	J	Z
THALLIUM	0.199	J	0.0539	MDL	0.431	PQL	MG/KG	J	Z

Sample ID: SL-532-SA5C-SB-0.0-0.5

Collected: 4/23/2012 1:25:00

Analysis Type: RES/TOT

Dilution: 0.971

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BERYLLIUM	0.378	J	0.0534	MDL	0.534	PQL	MG/KG	J	Z
BORON	3.19	J	2.67	MDL	5.34	PQL	MG/KG	J	Z
SILVER	0.117	J	0.0534	MDL	0.534	PQL	MG/KG	J	Z
THALLIUM	0.160	J	0.0534	MDL	0.427	PQL	MG/KG	J	Z

Sample ID: SL-533-SA5C-SB-0.0-0.5

Collected: 4/23/2012 3:15:00

Analysis Type: RES/TOT

Dilution: 0.980

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.222	J	0.104	MDL	0.518	PQL	MG/KG	J	Z
BERYLLIUM	0.461	J	0.0518	MDL	0.518	PQL	MG/KG	J	Z
BORON	3.98	J	2.59	MDL	5.18	PQL	MG/KG	J	Z
CADMIUM	0.216	J	0.0518	MDL	0.518	PQL	MG/KG	J	Z
MOLYBDENUM	0.479	J	0.0518	MDL	0.518	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/13/2012 9:33:35 AM

ADR version 1.6.0.193

Page 1 of 4

# Data Qualifier Summary

Lab Reporting Batch ID: 12D198

Laboratory: EMXT

EDD Filename: 12D198

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** METALS  
**Method:** 6020 **Matrix:** SO

**Sample ID:** SL-533-SA5C-SB-0.0-0.5 **Collected:** 4/23/2012 3:15:00 **Analysis Type:** RES/TOT **Dilution:** 0.980

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	102	J	51.8	MDL	104	PQL	MG/KG	J	Z
THALLIUM	0.183	J	0.0518	MDL	0.414	PQL	MG/KG	J	Z

**Method Category:** SVOA  
**Method:** 8082 **Matrix:** SO

**Sample ID:** SL-512-SA5C-SB-0.0-0.5 **Collected:** 4/23/2012 11:20:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	12	J	11	MDL	23	PQL	UG/KG	J	Z
AROCLOR 1260	14	J	11	MDL	23	PQL	UG/KG	J	Z

**Sample ID:** SL-532-SA5C-SB-0.0-0.5 **Collected:** 4/23/2012 1:25:00 **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Aroclor 5460	32	J	22	MDL	44	PQL	UG/KG	J	Z

**Sample ID:** SL-635-SA5C-SB-0.0-0.5 **Collected:** 4/23/2012 9:40:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	14	J	11	MDL	22	PQL	UG/KG	J	Z

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

**Sample ID:** SL-512-SA5C-SB-0.0-0.5 **Collected:** 4/23/2012 11:20:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	4.7	J	2.8	MDL	11	PQL	UG/KG	J	Z
DIBENZO(A,H)ANTHRACENE	6.4	J	2.8	MDL	11	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/13/2012 9:33:35 AM

ADR version 1.6.0.193

Page 2 of 4

# Data Qualifier Summary

Lab Reporting Batch ID: 12D198

Laboratory: EMXT

EDD Filename: 12D198

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

**Sample ID:** SL-520-SA5C-SB-0.0-0.5 **Collected:** 4/23/2012 2:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	9.6	J	8.3	MDL	33	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	31	J	8.3	MDL	33	PQL	UG/KG	J	Z

**Sample ID:** SL-532-SA5C-SB-0.0-0.5 **Collected:** 4/23/2012 1:25:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 3

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ACENAPHTHENE	32	J	8.2	MDL	33	PQL	UG/KG	J	Z
FLUORENE	22	J	8.2	MDL	33	PQL	UG/KG	J	Z

**Sample ID:** SL-533-SA5C-SB-0.0-0.5 **Collected:** 4/23/2012 3:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(E)PYRENE	9.5	J	5.3	MDL	11	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	19	J	5.3	MDL	21	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/13/2012 9:33:35 AM

ADR version 1.6.0.193

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D198

Laboratory: EMXT

EDD Filename: 12D198

eQAPP Name: CDM\_SSFL\_120730\_EMAX

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/13/2012 9:33:35 AM

ADR version 1.6.0.193

Page 4 of 4

## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

12D198

## Reporting Limit Outliers

Lab Reporting Batch ID: 12D198

Laboratory: EMXT

EDD Filename: 12D198

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 6020  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-512-SA5C-SB-0.0-0.5	ANTIMONY	J	0.197	0.558	PQL	MG/KG	J (all detects)
	BORON	J	2.84	5.58	PQL	MG/KG	
	CADMIUM	J	0.375	0.558	PQL	MG/KG	
	MOLYBDENUM	J	0.521	0.558	PQL	MG/KG	
	THALLIUM	J	0.218	0.446	PQL	MG/KG	
SL-520-SA5C-SB-0.0-0.5	ANTIMONY	J	0.169	0.539	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.478	0.539	PQL	MG/KG	
	BORON	J	3.01	5.39	PQL	MG/KG	
	CADMIUM	J	0.273	0.539	PQL	MG/KG	
	SILVER	J	0.0578	0.539	PQL	MG/KG	
	THALLIUM	J	0.199	0.431	PQL	MG/KG	
SL-532-SA5C-SB-0.0-0.5	BERYLLIUM	J	0.378	0.534	PQL	MG/KG	J (all detects)
	BORON	J	3.19	5.34	PQL	MG/KG	
	SILVER	J	0.117	0.534	PQL	MG/KG	
	THALLIUM	J	0.160	0.427	PQL	MG/KG	
SL-533-SA5C-SB-0.0-0.5	ANTIMONY	J	0.222	0.518	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.461	0.518	PQL	MG/KG	
	BORON	J	3.98	5.18	PQL	MG/KG	
	CADMIUM	J	0.216	0.518	PQL	MG/KG	
	MOLYBDENUM	J	0.479	0.518	PQL	MG/KG	
	SODIUM	J	102	104	PQL	MG/KG	
	THALLIUM	J	0.183	0.414	PQL	MG/KG	

**Method:** 8082  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-512-SA5C-SB-0.0-0.5	AROCLOR 1254	J	12	23	PQL	UG/KG	J (all detects)
	AROCLOR 1260	J	14	23	PQL	UG/KG	
SL-532-SA5C-SB-0.0-0.5	Aroclor 5460	J	32	44	PQL	UG/KG	J (all detects)
SL-635-SA5C-SB-0.0-0.5	AROCLOR 1254	J	14	22	PQL	UG/KG	J (all detects)

**Method:** 8270C SIM  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-512-SA5C-SB-0.0-0.5	ANTHRACENE	J	4.7	11	PQL	UG/KG	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	6.4	11	PQL	UG/KG	
SL-520-SA5C-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	9.6	33	PQL	UG/KG	J (all detects)
	BENZO(G,H,I)PERYLENE	J	31	33	PQL	UG/KG	
SL-532-SA5C-SB-0.0-0.5	ACENAPHTHENE	J	32	33	PQL	UG/KG	J (all detects)
	FLUORENE	J	22	33	PQL	UG/KG	
SL-533-SA5C-SB-0.0-0.5	BENZO(E)PYRENE	J	9.5	11	PQL	UG/KG	J (all detects)
	BENZO(G,H,I)PERYLENE	J	19	21	PQL	UG/KG	

LDC #: 28558G4  
 SDG #: 12D198  
 Laboratory: EMAX Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 ADR

Date: 1/6/12  
 Page: 1 of 1  
 Reviewer: [Signature]  
 2nd Reviewer: [Signature]

**METHOD:** Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	D	
V.	ICP Interference Check Sample (ICS) Analysis	—	
VI.	Matrix Spike Analysis	N	CS
VII.	Duplicate Sample Analysis	N	↓
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	SW	EB = EB-070612

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

FB = FB-071112  
 C126064

Validated Samples:

1	SL-512-SA5C-SB-0.0-0.5	11		21		31	
2	SL-520-SA5C-SB-0.0-0.5	12		22		32	
3	SL-532-SA5C-SB-0.0-0.5	13		23		33	
4	SL-533-SA5C-SB-0.0-0.5	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** ug/L **Associated sample units:** mg/Kg  
**Sampling date:** 7/11/12 **Soil factor applied:** 50x  
**Field blank type:** (circle one) Field Blank / Rinsate / Other: Associated Samples: All

Analyte	Blank ID	Action Limit	No Qualifiers	Sample Identification				
	FB-071112							
Al	0.0296	7.4						
Cu	0.00102	0.255						
Ni	0.000204	0.051						

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
 Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# **SAMPLE DELIVERY GROUP**

**12D208**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prép Method	Analytical Method	Review Level
23-Apr-2012	SL-635-SA5C-SB-2.0-3.0	D208-01	N	3550B	8082	III
24-Apr-2012	SL-557A-SA5C-SB-0.0-0.5	D208-03	N	3550B	8082	III
24-Apr-2012	SL-557B-SA5C-SB-0.0-0.5	D208-04	N	3550B	8082	III
24-Apr-2012	SL-557C-SA5C-SB-0.0-0.5	D208-05	N	3550B	8082	III
24-Apr-2012	SL-557D-SA5C-SB-0.0-0.5	D208-06	N	3550B	8082	III
24-Apr-2012	SL-556A-SA5C-SB-0.0-0.5	D208-02	N	3550B	8082	III
24-Apr-2012	SL-556B-SA5C-SB-0.0-0.5	D208-09	N	3550B	8082	III
24-Apr-2012	SL-556C-SA5C-SB-0.0-0.5	D208-10	N	3550B	8082	III
24-Apr-2012	SL-556D-SA5C-SB-0.0-0.5	D208-11	N	3550B	8082	III
24-Apr-2012	SL-556D-SA5C-SB-0.0-0.5MS	D208-11M	MS	3550B	8082	III
24-Apr-2012	SL-856D-SA5C-SB-0.0-0.5	D208-12	FD	3550B	8082	III
24-Apr-2012	SL-525-SA5C-SB-0.0-0.5	D208-08	N	3550B	8015B EFH	III
24-Apr-2012	SL-525-SA5C-SB-0.0-0.5	D208-08	N	3550B	8082	III
24-Apr-2012	SL-525-SA5C-SB-0.0-0.5	D208-08	N	3550B	8270C SIM	III
24-Apr-2012	SL-525-SA5C-SB-0.0-0.5	D208-08	N	7471A	7471A	III
24-Apr-2012	SL-525-SA5C-SB-0.0-0.5	D208-08	N	TOTAL	6020	III
24-Apr-2012	SL-524-SA5C-SB-0.0-0.5	D208-07	N	3550B	8015B EFH	III
24-Apr-2012	SL-524-SA5C-SB-0.0-0.5	D208-07	N	3550B	8082	III
24-Apr-2012	SL-524-SA5C-SB-0.0-0.5	D208-07	N	3550B	8270C SIM	III
24-Apr-2012	SL-524-SA5C-SB-0.0-0.5	D208-07	N	TOTAL	6020	III
24-Apr-2012	SL-524-SA5C-SB-0.0-0.5	D208-07T	N	7471A	7471A	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: 12D208

Laboratory: EMXT

EDD Filename: 12D208

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-524-SA5C-SB-0.0-0.5      Collected: 4/24/2012 3:10:00      Analysis Type: RES/TOT      Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.154	J	0.107	MDL	0.534	PQL	MG/KG	J	Z
BERYLLIUM	0.487	J	0.0534	MDL	0.534	PQL	MG/KG	J	Z
CADMIUM	0.274	J	0.0534	MDL	0.534	PQL	MG/KG	J	Z
MOLYBDENUM	0.505	J	0.0534	MDL	0.534	PQL	MG/KG	J	Z
THALLIUM	0.201	J	0.0534	MDL	0.427	PQL	MG/KG	J	Z

Sample ID: SL-525-SA5C-SB-0.0-0.5      Collected: 4/24/2012 2:50:00      Analysis Type: RES/TOT      Dilution: 0.976

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.172	J	0.104	MDL	0.519	PQL	MG/KG	J	Z
BORON	3.26	J	2.59	MDL	5.19	PQL	MG/KG	J	Z
CADMIUM	0.316	J	0.0519	MDL	0.519	PQL	MG/KG	J	Z
THALLIUM	0.237	J	0.0519	MDL	0.415	PQL	MG/KG	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8015B EFH	<b>Matrix:</b> SO

Sample ID: SL-524-SA5C-SB-0.0-0.5      Collected: 4/24/2012 3:10:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C15-C20)	3.3	J	2.7	MDL	5.3	PQL	MG/KG	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8082	<b>Matrix:</b> SO

Sample ID: SL-524-SA5C-SB-0.0-0.5      Collected: 4/24/2012 3:10:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	18	J	11	MDL	21	PQL	UG/KG	J	Z
AROCLOR 1260	18	J	11	MDL	21	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/13/2012 9:33:45 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D208

Laboratory: EMXT

EDD Filename: 12D208

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-524-SA5C-SB-0.0-0.5 Collected: 4/24/2012 3:10:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	5.6	J	2.7	MDL	11	PQL	UG/KG	J	Z
BENZO(A)PYRENE	3.4	J	2.7	MDL	11	PQL	UG/KG	J	Z
BENZO(B)FLUORANTHENE	5.0	J	2.7	MDL	11	PQL	UG/KG	J	Z
CHRYSENE	8.8	J	2.7	MDL	11	PQL	UG/KG	J	Z
INDENO(1,2,3-CD)PYRENE	2.9	J	2.7	MDL	11	PQL	UG/KG	J	Z

Sample ID: SL-525-SA5C-SB-0.0-0.5 Collected: 4/24/2012 2:50:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	7.5	J	2.7	MDL	11	PQL	UG/KG	J	Z
BENZO(K)FLUORANTHENE	4.0	J	2.7	MDL	11	PQL	UG/KG	J	Z
CHRYSENE	7.8	J	2.7	MDL	11	PQL	UG/KG	J	Z
DIBENZO(A,H)ANTHRACENE	3.0	J	2.7	MDL	11	PQL	UG/KG	J	Z
FLUORANTHENE	5.2	J	2.7	MDL	11	PQL	UG/KG	J	Z
INDENO(1,2,3-CD)PYRENE	6.8	J	2.7	MDL	11	PQL	UG/KG	J	Z
PYRENE	8.1	J	2.7	MDL	11	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D208

Laboratory: EMXT

EDD Filename: 12D208

eQAPP Name: CDM\_SSFL\_120730\_EMAX

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

12D208

## Reporting Limit Outliers

Lab Reporting Batch ID: 12D208

Laboratory: EMXT

EDD Filename: 12D208

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 6020  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-524-SA5C-SB-0.0-0.5	ANTIMONY	J	0.154	0.534	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.487	0.534	PQL	MG/KG	
	CADMIUM	J	0.274	0.534	PQL	MG/KG	
	MOLYBDENUM	J	0.505	0.534	PQL	MG/KG	
	THALLIUM	J	0.201	0.427	PQL	MG/KG	
SL-525-SA5C-SB-0.0-0.5	ANTIMONY	J	0.172	0.519	PQL	MG/KG	J (all detects)
	BORON	J	3.26	5.19	PQL	MG/KG	
	CADMIUM	J	0.316	0.519	PQL	MG/KG	
	THALLIUM	J	0.237	0.415	PQL	MG/KG	

**Method:** 8015B EFH  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-524-SA5C-SB-0.0-0.5	EFH(C15-C20)	J	3.3	5.3	PQL	MG/KG	J (all detects)

**Method:** 8082  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-524-SA5C-SB-0.0-0.5	AROCLOR 1254	J	18	21	PQL	UG/KG	J (all detects)
	AROCLOR 1260	J	18	21	PQL	UG/KG	

**Method:** 8270C SIM  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-524-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	5.6	11	PQL	UG/KG	J (all detects)
	BENZO(A)PYRENE	J	3.4	11	PQL	UG/KG	
	BENZO(B)FLUORANTHENE	J	5.0	11	PQL	UG/KG	
	CHRYSENE	J	8.8	11	PQL	UG/KG	
	INDENO(1,2,3-CD)PYRENE	J	2.9	11	PQL	UG/KG	
SL-525-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	7.5	11	PQL	UG/KG	J (all detects)
	BENZO(K)FLUORANTHENE	J	4.0	11	PQL	UG/KG	
	CHRYSENE	J	7.8	11	PQL	UG/KG	
	DIBENZO(A,H)ANTHRACENE	J	3.0	11	PQL	UG/KG	
	FLUORANTHENE	J	5.2	11	PQL	UG/KG	
	INDENO(1,2,3-CD)PYRENE	J	6.8	11	PQL	UG/KG	
	PYRENE	J	8.1	11	PQL	UG/KG	

LDC #: 28558H4  
 SDG #: 12D208  
 Laboratory: EMAX Laboratories, Inc.

**VALIDATION COMPLETENESS WORKSHEET**  
 ADR

Date: 11-6-12  
 Page: 1 of 1  
 Reviewer: [Signature]  
 2nd Reviewer: [Signature]

**METHOD:** Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	—	Sampling dates:
II.	ICP/MS Tune	—	
III.	Calibration	—	
IV.	Blanks	SWA	
V.	ICP Interference Check Sample (ICS) Analysis	—	
VI.	Matrix Spike Analysis	N	CS
VII.	Duplicate Sample Analysis	N	↓
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	—	
XV.	Field Blanks	SW	EB = EB-042 b/a (12/03/12)

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

FB = FB-071112  
 C126064

Validated Samples:

1	SL-524-SA5C-SB--0.0-0.5	11		21		31	
2	SL-525-SA5C-SB--0.0-0.5	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** ug/L **Associated sample units:** mg/Kg  
**Sampling date:** 7/11/12 **Soil factor applied:** 50x  
**Field blank type:** (circle one) Field Blank / Rinsate / Other: \_\_\_\_\_

Associated Samples: All

Analyte	Blank ID	Sample Identification		
		Action Limit	No Qualifiers	
Al	0.0296	7.4		
Cu	0.00102	0.255		
Ni	0.000204	0.051		

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
 Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# **SAMPLE DELIVERY GROUP**

**12D231**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
25-Apr-2012	SL-527-SA5C-SB-0.0-0.5	D231-02	N	3550B	8015B EFH	III
25-Apr-2012	SL-527-SA5C-SB-0.0-0.5	D231-02	N	3550B	8082	III
25-Apr-2012	SL-527-SA5C-SB-0.0-0.5	D231-02	N	3550B	8270C SIM	III
25-Apr-2012	SL-527-SA5C-SB-0.0-0.5	D231-02	N	7471A	7471A	III
25-Apr-2012	SL-527-SA5C-SB-0.0-0.5	D231-02	N	TOTAL	6020	III
25-Apr-2012	SL-528-SA5C-SB-0.0-0.5	D231-03	N	3550B	8015B EFH	III
25-Apr-2012	SL-528-SA5C-SB-0.0-0.5	D231-03	N	3550B	8082	III
25-Apr-2012	SL-528-SA5C-SB-0.0-0.5	D231-03	N	3550B	8270C SIM	III
25-Apr-2012	SL-528-SA5C-SB-0.0-0.5	D231-03	N	7471A	7471A	III
25-Apr-2012	SL-528-SA5C-SB-0.0-0.5	D231-03	N	TOTAL	6020	III
25-Apr-2012	SL-529-SA5C-SB-0.0-0.5	D231-04	N	3550B	8015B EFH	III
25-Apr-2012	SL-529-SA5C-SB-0.0-0.5	D231-04	N	3550B	8082	III
25-Apr-2012	SL-529-SA5C-SB-0.0-0.5	D231-04	N	3550B	8270C SIM	III
25-Apr-2012	SL-529-SA5C-SB-0.0-0.5	D231-04	N	7471A	7471A	III
25-Apr-2012	SL-529-SA5C-SB-0.0-0.5	D231-04	N	TOTAL	6020	III
25-Apr-2012	SL-623-SA5C-SB-0.0-0.5	D231-06	N	3550B	8082	III
25-Apr-2012	SL-623-SA5C-SB-0.0-0.5	D231-06	N	7471A	7471A	III
25-Apr-2012	SL-623-SA5C-SB-0.0-0.5	D231-06	N	GEN PREP	6850	III
25-Apr-2012	SL-623-SA5C-SB-0.0-0.5	D231-06	N	TOTAL	6020	III
25-Apr-2012	SL-623-SA5C-SB-0.0-0.5	D231-06W	N	3550B	8270C SIM	III
25-Apr-2012	SL-530-SA5C-SB-0.0-0.5	D231-05	N	3550B	8082	III
25-Apr-2012	SL-530-SA5C-SB-0.0-0.5	D231-05	N	3550B	8270C SIM	III
25-Apr-2012	SL-530-SA5C-SB-0.0-0.5	D231-05	N	7471A	7471A	III
25-Apr-2012	SL-530-SA5C-SB-0.0-0.5	D231-05	N	GEN PREP	6850	III
25-Apr-2012	SL-530-SA5C-SB-0.0-0.5	D231-05	N	TOTAL	6020	III
25-Apr-2012	SL-522-SA5C-SB-0.0-0.5	D231-01	N	3550B	8082	III

III = EPA Level 3 Data Review  
IV = EPA Level 4 Data Validation

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
25-Apr-2012	SL-522-SA5C-SB-0.0-0.5	D231-01	N	3550B	8270C SIM	III
25-Apr-2012	SL-522-SA5C-SB-0.0-0.5	D231-01	N	7471A	7471A	III
25-Apr-2012	SL-522-SA5C-SB-0.0-0.5	D231-01	N	GEN PREP	6850	III
25-Apr-2012	SL-522-SA5C-SB-0.0-0.5	D231-01	N	TOTAL	6020	III
25-Apr-2012	SL-531-SA5C-SB-0.0-0.5	D231-09	N	3550B	8082	III
25-Apr-2012	SL-531-SA5C-SB-0.0-0.5	D231-09	N	7471A	7471A	III
25-Apr-2012	SL-531-SA5C-SB-0.0-0.5	D231-09	N	GEN PREP	6850	III
25-Apr-2012	SL-531-SA5C-SB-0.0-0.5	D231-09	N	TOTAL	6020	III
25-Apr-2012	SL-531-SA5C-SB-0.0-0.5	D231-09W	N	3550B	8270C SIM	III
25-Apr-2012	SL-523-SA5C-SB-0.0-0.5	D231-07	N	3550B	8082	III
25-Apr-2012	SL-523-SA5C-SB-0.0-0.5	D231-07	N	7471A	7471A	III
25-Apr-2012	SL-523-SA5C-SB-0.0-0.5	D231-07	N	GEN PREP	6850	III
25-Apr-2012	SL-523-SA5C-SB-0.0-0.5	D231-07	N	TOTAL	6020	III
25-Apr-2012	SL-523-SA5C-SB-0.0-0.5	D231-07W	N	3550B	8270C SIM	III
25-Apr-2012	SL-526-SA5C-SB-0.0-0.5	D231-08	N	3550B	8015B EFH	III
25-Apr-2012	SL-526-SA5C-SB-0.0-0.5	D231-08	N	3550B	8082	III
25-Apr-2012	SL-526-SA5C-SB-0.0-0.5	D231-08	N	7471A	7471A	III
25-Apr-2012	SL-526-SA5C-SB-0.0-0.5	D231-08	N	GEN PREP	6850	III
25-Apr-2012	SL-526-SA5C-SB-0.0-0.5	D231-08	N	TOTAL	6020	III
25-Apr-2012	SL-526-SA5C-SB-0.0-0.5	D231-08W	N	3550B	8270C SIM	III
25-Apr-2012	SL-699-SA5C-SB-0.0-0.5	D231-11	N	3550B	8015B EFH	III
25-Apr-2012	SL-699-SA5C-SB-0.0-0.5	D231-11W	N	3550B	8270C SIM	III
25-Apr-2012	SL-698-SA5C-SB-0.0-0.5	D231-10	N	3550B	8015B EFH	III
25-Apr-2012	SL-698-SA5C-SB-0.0-0.5	D231-10W	N	3550B	8270C SIM	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: 12D231

Laboratory: EMXT

EDD Filename: 12D231

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-522-SA5C-SB-0.0-0.5      Collected: 4/25/2012 11:20:00      Analysis Type: RES/TOT      Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.213	J	0.109	MDL	0.543	PQL	MG/KG	J	Z, Q
BORON	3.60	J	2.71	MDL	5.43	PQL	MG/KG	J	Z
CADMIUM	0.396	J	0.0543	MDL	0.543	PQL	MG/KG	J	Z
SODIUM	74.5	J	54.3	MDL	109	PQL	MG/KG	J	Z
THALLIUM	0.305	J	0.0543	MDL	0.434	PQL	MG/KG	J	Z

Sample ID: SL-523-SA5C-SB-0.0-0.5      Collected: 4/25/2012 2:00:00      Analysis Type: RES/TOT      Dilution: 0.980

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.221	J	0.102	MDL	0.512	PQL	MG/KG	J	Z, Q
BERYLLIUM	0.358	J	0.0512	MDL	0.512	PQL	MG/KG	J	Z
BORON	3.26	J	2.56	MDL	5.12	PQL	MG/KG	J	Z
CADMIUM	0.192	J	0.0512	MDL	0.512	PQL	MG/KG	J	Z
MOLYBDENUM	0.426	J	0.0512	MDL	0.512	PQL	MG/KG	J	Z
SODIUM	84.8	J	51.2	MDL	102	PQL	MG/KG	J	Z
THALLIUM	0.150	J	0.0512	MDL	0.410	PQL	MG/KG	J	Z

Sample ID: SL-526-SA5C-SB-0.0-0.5      Collected: 4/25/2012 2:35:00      Analysis Type: RES/TOT      Dilution: 0.962

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.260	J	0.107	MDL	0.533	PQL	MG/KG	J	Z, Q
BORON	4.82	J	2.66	MDL	5.33	PQL	MG/KG	J	Z
CADMIUM	0.223	J	0.0533	MDL	0.533	PQL	MG/KG	J	Z
SODIUM	91.2	J	53.3	MDL	107	PQL	MG/KG	J	Z
THALLIUM	0.245	J	0.0533	MDL	0.426	PQL	MG/KG	J	Z

Sample ID: SL-527-SA5C-SB-0.0-0.5      Collected: 4/25/2012 8:40:00      Analysis Type: RES/TOT      Dilution: 0.957

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.185	J	0.103	MDL	0.516	PQL	MG/KG	J	Z, Q
CADMIUM	0.113	J	0.0516	MDL	0.516	PQL	MG/KG	J	Z
SILVER	0.0563	J	0.0516	MDL	0.516	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/13/2012 9:33:55 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D231

Laboratory: EMXT

EDD Filename: 12D231

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-527-SA5C-SB-0.0-0.5      Collected: 4/25/2012 8:40:00      Analysis Type: RES/TOT      Dilution: 0.957

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
THALLIUM	0.251	J	0.0516	MDL	0.412	PQL	MG/KG	J	Z

Sample ID: SL-528-SA5C-SB-0.0-0.5      Collected: 4/25/2012 9:10:00      Analysis Type: RES/TOT      Dilution: 0.976

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.204	J	0.103	MDL	0.516	PQL	MG/KG	J	Z, Q
BORON	3.16	J	2.58	MDL	5.16	PQL	MG/KG	J	Z
CADMIUM	0.214	J	0.0516	MDL	0.516	PQL	MG/KG	J	Z
THALLIUM	0.233	J	0.0516	MDL	0.413	PQL	MG/KG	J	Z

Sample ID: SL-529-SA5C-SB-0.0-0.5      Collected: 4/25/2012 9:30:00      Analysis Type: RES/TOT      Dilution: 0.995

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.220	J	0.105	MDL	0.525	PQL	MG/KG	J	Z, Q
BORON	3.46	J	2.63	MDL	5.25	PQL	MG/KG	J	Z
CADMIUM	0.260	J	0.0525	MDL	0.525	PQL	MG/KG	J	Z
THALLIUM	0.257	J	0.0525	MDL	0.420	PQL	MG/KG	J	Z

Sample ID: SL-530-SA5C-SB-0.0-0.5      Collected: 4/25/2012 10:30:00      Analysis Type: RES/TOT      Dilution: 0.976

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.182	J	0.104	MDL	0.521	PQL	MG/KG	J	Z, Q
BORON	2.82	J	2.61	MDL	5.21	PQL	MG/KG	J	Z
CADMIUM	0.200	J	0.0521	MDL	0.521	PQL	MG/KG	J	Z
MOLYBDENUM	0.400	J	0.0521	MDL	0.521	PQL	MG/KG	J	Z
THALLIUM	0.230	J	0.0521	MDL	0.417	PQL	MG/KG	J	Z

Sample ID: SL-531-SA5C-SB-0.0-0.5      Collected: 4/25/2012 1:25:00      Analysis Type: RES/TOT      Dilution: 0.985

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.216	J	0.106	MDL	0.532	PQL	MG/KG	J	Z, Q
BORON	3.19	J	2.66	MDL	5.32	PQL	MG/KG	J	Z
CADMIUM	0.328	J	0.0532	MDL	0.532	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/13/2012 9:33:55 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D231

Laboratory: EMXT

EDD Filename: 12D231

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** METALS  
**Method:** 6020 **Matrix:** SO

Sample ID: SL-531-SA5C-SB-0.0-0.5 Collected: 4/25/2012 1:25:00 Analysis Type: RES/TOT Dilution: 0.985

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
SODIUM	63.9	J	53.2	MDL	106	PQL	MG/KG	J	Z
THALLIUM	0.271	J	0.0532	MDL	0.425	PQL	MG/KG	J	Z

Sample ID: SL-623-SA5C-SB-0.0-0.5 Collected: 4/25/2012 9:55:00 Analysis Type: RES/TOT Dilution: 0.995

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.234	J	0.107	MDL	0.533	PQL	MG/KG	J	Z, Q
BERYLLIUM	0.468	J	0.0533	MDL	0.533	PQL	MG/KG	J	Z
BORON	3.59	J	2.67	MDL	5.33	PQL	MG/KG	J	Z
CADMIUM	0.225	J	0.0533	MDL	0.533	PQL	MG/KG	J	Z
THALLIUM	0.232	J	0.0533	MDL	0.427	PQL	MG/KG	J	Z

**Method Category:** METALS  
**Method:** 7471A **Matrix:** SO

Sample ID: SL-526-SA5C-SB-0.0-0.5 Collected: 4/25/2012 2:35:00 Analysis Type: RES/TOT Dilution: 0.990

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0782	J	0.0548	MDL	0.110	PQL	MG/KG	J	Z

Sample ID: SL-623-SA5C-SB-0.0-0.5 Collected: 4/25/2012 9:55:00 Analysis Type: RES/TOT Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
MERCURY	0.0588	J	0.0536	MDL	0.107	PQL	MG/KG	J	Z

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-523-SA5C-SB-0.0-0.5 Collected: 4/25/2012 2:00:00 Analysis Type: RES-BASE/NEUTRAL Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	10	J	5.2	MDL	21	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D231

Laboratory: EMXT

EDD Filename: 12D231

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8270C SIM	<b>Matrix:</b> SO

Sample ID: SL-523-SA5C-SB-0.0-0.5      Collected: 4/25/2012 2:00:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	5.4	J	5.2	MDL	21	PQL	UG/KG	J	Z

Sample ID: SL-526-SA5C-SB-0.0-0.5      Collected: 4/25/2012 2:35:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	2.9	J	2.8	MDL	11	PQL	UG/KG	J	Z
BENZO(E)PYRENE	4.8	J	2.8	MDL	5.5	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	3.5	J	2.8	MDL	11	PQL	UG/KG	J	Z

Sample ID: SL-529-SA5C-SB-0.0-0.5      Collected: 4/25/2012 9:30:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	4.7	J	2.6	MDL	11	PQL	UG/KG	J	Z
BENZO(E)PYRENE	5.2	J	2.6	MDL	5.3	PQL	UG/KG	J	Z
FLUORANTHENE	2.8	J	2.6	MDL	11	PQL	UG/KG	J	Z

Sample ID: SL-530-SA5C-SB-0.0-0.5      Collected: 4/25/2012 10:30:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)PYRENE	3.8	J	2.7	MDL	11	PQL	UG/KG	J	Z
BENZO(B)FLUORANTHENE	6.7	J	2.7	MDL	11	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	3.3	J	2.7	MDL	11	PQL	UG/KG	J	Z
CHRYSENE	2.8	J	2.7	MDL	11	PQL	UG/KG	J	Z
FLUORANTHENE	4.9	J	2.7	MDL	11	PQL	UG/KG	J	Z
PYRENE	4.0	J	2.7	MDL	11	PQL	UG/KG	J	Z

Sample ID: SL-531-SA5C-SB-0.0-0.5      Collected: 4/25/2012 1:25:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	3.2	J	2.7	MDL	11	PQL	UG/KG	J	Z
BENZO(B)FLUORANTHENE	3.0	J	2.7	MDL	11	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D231

Laboratory: EMXT

EDD Filename: 12D231

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

**Sample ID:** SL-623-SA5C-SB-0.0-0.5 **Collected:** 4/25/2012 9:55:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(G,H,I)PERYLENE	10	J	2.7	MDL	11	PQL	UG/KG	J	Z
DIBENZO(A,H)ANTHRACENE	2.9	J	2.7	MDL	11	PQL	UG/KG	J	Z
INDENO(1,2,3-CD)PYRENE	7.1	J	2.7	MDL	11	PQL	UG/KG	J	Z

**Sample ID:** SL-698-SA5C-SB-0.0-0.5 **Collected:** 4/25/2012 3:15:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(A)ANTHRACENE	6.6	J	5.4	MDL	22	PQL	UG/KG	J	Z
BENZO(A)PYRENE	18	J	5.4	MDL	22	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	12	J	5.4	MDL	22	PQL	UG/KG	J	Z
BENZO(K)FLUORANTHENE	18	J	5.4	MDL	22	PQL	UG/KG	J	Z
CHRYSENE	8.1	J	5.4	MDL	22	PQL	UG/KG	J	Z
DIBENZO(A,H)ANTHRACENE	5.5	J	5.4	MDL	22	PQL	UG/KG	J	Z
FLUORANTHENE	19	J	5.4	MDL	22	PQL	UG/KG	J	Z
INDENO(1,2,3-CD)PYRENE	7.1	J	5.4	MDL	22	PQL	UG/KG	J	Z
PYRENE	14	J	5.4	MDL	22	PQL	UG/KG	J	Z

**Sample ID:** SL-699-SA5C-SB-0.0-0.5 **Collected:** 4/25/2012 3:00:00 **Analysis Type:** RES-BASE/NEUTRAL **Dilution:** 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTHRACENE	11	J	5.5	MDL	22	PQL	UG/KG	J	Z
DIBENZO(A,H)ANTHRACENE	11	J	5.5	MDL	22	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D231

Laboratory: EMXT

EDD Filename: 12D231

eQAPP Name: CDM\_SSFL\_120730\_EMAX

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
Q	Matrix Spike Lower Estimation
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

12D231

# Reporting Limit Outliers

Lab Reporting Batch ID: 12D231

Laboratory: EMXT

EDD Filename: 12D231

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 6020

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-522-SA5C-SB-0.0-0.5	ANTIMONY	J	0.213	0.543	PQL	MG/KG	J (all detects)
	BORON	J	3.60	5.43	PQL	MG/KG	
	CADMIUM	J	0.396	0.543	PQL	MG/KG	
	SODIUM	J	74.5	109	PQL	MG/KG	
	THALLIUM	J	0.305	0.434	PQL	MG/KG	
SL-523-SA5C-SB-0.0-0.5	ANTIMONY	J	0.221	0.512	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.358	0.512	PQL	MG/KG	
	BORON	J	3.26	5.12	PQL	MG/KG	
	CADMIUM	J	0.192	0.512	PQL	MG/KG	
	MOLYBDENUM	J	0.426	0.512	PQL	MG/KG	
	SODIUM	J	84.8	102	PQL	MG/KG	
SL-526-SA5C-SB-0.0-0.5	ANTIMONY	J	0.260	0.533	PQL	MG/KG	J (all detects)
	BORON	J	4.82	5.33	PQL	MG/KG	
	CADMIUM	J	0.223	0.533	PQL	MG/KG	
	SODIUM	J	91.2	107	PQL	MG/KG	
	THALLIUM	J	0.245	0.426	PQL	MG/KG	
SL-527-SA5C-SB-0.0-0.5	ANTIMONY	J	0.185	0.516	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.113	0.516	PQL	MG/KG	
	SILVER	J	0.0563	0.516	PQL	MG/KG	
	THALLIUM	J	0.251	0.412	PQL	MG/KG	
SL-528-SA5C-SB-0.0-0.5	ANTIMONY	J	0.204	0.516	PQL	MG/KG	J (all detects)
	BORON	J	3.16	5.16	PQL	MG/KG	
	CADMIUM	J	0.214	0.516	PQL	MG/KG	
	THALLIUM	J	0.233	0.413	PQL	MG/KG	
SL-529-SA5C-SB-0.0-0.5	ANTIMONY	J	0.220	0.525	PQL	MG/KG	J (all detects)
	BORON	J	3.46	5.25	PQL	MG/KG	
	CADMIUM	J	0.260	0.525	PQL	MG/KG	
	THALLIUM	J	0.257	0.420	PQL	MG/KG	
SL-530-SA5C-SB-0.0-0.5	ANTIMONY	J	0.182	0.521	PQL	MG/KG	J (all detects)
	BORON	J	2.82	5.21	PQL	MG/KG	
	CADMIUM	J	0.200	0.521	PQL	MG/KG	
	MOLYBDENUM	J	0.400	0.521	PQL	MG/KG	
	THALLIUM	J	0.230	0.417	PQL	MG/KG	
SL-531-SA5C-SB-0.0-0.5	ANTIMONY	J	0.216	0.532	PQL	MG/KG	J (all detects)
	BORON	J	3.19	5.32	PQL	MG/KG	
	CADMIUM	J	0.328	0.532	PQL	MG/KG	
	SODIUM	J	63.9	106	PQL	MG/KG	
	THALLIUM	J	0.271	0.425	PQL	MG/KG	
SL-623-SA5C-SB-0.0-0.5	ANTIMONY	J	0.234	0.533	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.468	0.533	PQL	MG/KG	
	BORON	J	3.59	5.33	PQL	MG/KG	
	CADMIUM	J	0.225	0.533	PQL	MG/KG	
	THALLIUM	J	0.232	0.427	PQL	MG/KG	

# Reporting Limit Outliers

Lab Reporting Batch ID: 12D231

Laboratory: EMXT

EDD Filename: 12D231

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 7471A

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-526-SA5C-SB-0.0-0.5	MERCURY	J	0.0782	0.110	PQL	MG/KG	J (all detects)
SL-623-SA5C-SB-0.0-0.5	MERCURY	J	0.0588	0.107	PQL	MG/KG	J (all detects)

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-523-SA5C-SB-0.0-0.5	BENZO(G,H,I)PERYLENE	J	10	21	PQL	UG/KG	J (all detects)
	FLUORANTHENE	J	5.4	21	PQL	UG/KG	
SL-526-SA5C-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	2.9	11	PQL	UG/KG	J (all detects)
	BENZO(E)PYRENE	J	4.8	5.5	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	3.5	11	PQL	UG/KG	
SL-529-SA5C-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	4.7	11	PQL	UG/KG	J (all detects)
	BENZO(E)PYRENE	J	5.2	5.3	PQL	UG/KG	
	FLUORANTHENE	J	2.8	11	PQL	UG/KG	
SL-530-SA5C-SB-0.0-0.5	BENZO(A)PYRENE	J	3.8	11	PQL	UG/KG	J (all detects)
	BENZO(B)FLUORANTHENE	J	6.7	11	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	3.3	11	PQL	UG/KG	
	CHRYSENE	J	2.8	11	PQL	UG/KG	
	FLUORANTHENE	J	4.9	11	PQL	UG/KG	
	PYRENE	J	4.0	11	PQL	UG/KG	
SL-531-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	3.2	11	PQL	UG/KG	J (all detects)
	BENZO(B)FLUORANTHENE	J	3.0	11	PQL	UG/KG	
SL-623-SA5C-SB-0.0-0.5	BENZO(G,H,I)PERYLENE	J	10	11	PQL	UG/KG	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	2.9	11	PQL	UG/KG	
	INDENO(1,2,3-CD)PYRENE	J	7.1	11	PQL	UG/KG	
SL-698-SA5C-SB-0.0-0.5	BENZO(A)ANTHRACENE	J	6.6	22	PQL	UG/KG	J (all detects)
	BENZO(A)PYRENE	J	18	22	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	12	22	PQL	UG/KG	
	BENZO(K)FLUORANTHENE	J	18	22	PQL	UG/KG	
	CHRYSENE	J	8.1	22	PQL	UG/KG	
	DIBENZO(A,H)ANTHRACENE	J	5.5	22	PQL	UG/KG	
	FLUORANTHENE	J	19	22	PQL	UG/KG	
	INDENO(1,2,3-CD)PYRENE	J	7.1	22	PQL	UG/KG	
	PYRENE	J	14	22	PQL	UG/KG	
SL-699-SA5C-SB-0.0-0.5	ANTHRACENE	J	11	22	PQL	UG/KG	J (all detects)
	DIBENZO(A,H)ANTHRACENE	J	11	22	PQL	UG/KG	

LDC #: 2855814

# VALIDATION COMPLETENESS WORKSHEET

Date: 11/6/12

SDG #: 12D231

ADR

Page: 1 of 1

Laboratory: EMAX Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	-	Sampling dates:
II.	ICP/MS Tune	-	
III.	Calibration	-	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	-	
VI.	Matrix Spike Analysis	N	MS/D (from 12D231)
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EB= EB-042612 (12D231)

Note: A = Acceptable  
N = Not provided/applicable  
SW = See worksheet

ND = No compounds detected  
R = Rinsate  
FB = Field blank

D = Duplicate  
TB = Trip blank  
EB = Equipment blank

FB= FB-071112  
C126064

Validated Samples:

1	SL-522-SA5C-SB-0.0-0.5	11		21		31	
2	SL-527-SA5C-SB-0.0-0.5	12		22		32	
3	SL-528-SA5C-SB-0.0-0.5	13		23		33	
4	SL-529-SA5C-SB-0.0-0.5	14		24		34	
5	SL-530-SA5C-SB-0.0-0.5	15		25		35	
6	SL-623-SA5C-SB-0.0-0.5	16		26		36	
7	SL-523-SA5C-SB-0.0-0.5	17		27		37	
8	SL-526-SA5C-SB-0.0-0.5	18		28		38	
9	SL-531-SA5C-SB-0.0-0.5	19		29		39	
10		20		30		40	

Notes: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** ug/L **Associated sample units:** mg/Kg  
**Sampling date:** 7/11/12 **Soil factor applied:** 50x  
**Field blank type:** (circle one) Field Blank / Rinsate / Other: Associated Samples: All

Analyte	Blank ID	Action Limit	No Qualifiers	Sample Identification				
	FB-071112							
Al	0.0296	7.4						
Cu	0.00102	0.255						
Ni	0.000204	0.051						

**CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:**  
 Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# **SAMPLE DELIVERY GROUP**

**12D256**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Apr-2012	SL-571-SA5C-SB-0.0-0.5	D256-01	N	3550B	8015B EFH	III
26-Apr-2012	SL-571-SA5C-SB-0.0-0.5	D256-01	N	3550B	8082	III
26-Apr-2012	SL-571-SA5C-SB-0.0-0.5	D256-01	N	3550B	8270C SIM	III
26-Apr-2012	SL-571-SA5C-SB-0.0-0.5	D256-01	N	7471A	7471A	III
26-Apr-2012	SL-571-SA5C-SB-0.0-0.5	D256-01	N	GEN PREP	8015B	III
26-Apr-2012	SL-571-SA5C-SB-0.0-0.5	D256-01	N	GEN PREP	8015M	III
26-Apr-2012	SL-571-SA5C-SB-0.0-0.5	D256-01	N	TOTAL	6020	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5	D256-02	N	3550B	8015B EFH	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5	D256-02	N	3550B	8082	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5	D256-02	N	3550B	8270C SIM	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5	D256-02	N	7471A	7471A	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5	D256-02	N	GEN PREP	7199	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5	D256-02	N	TOTAL	6020	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5MS	D256-02M	MS	3550B	8015B EFH	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5MS	D256-02M	MS	3550B	8082	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5MS	D256-02M	MS	3550B	8270C SIM	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5MS	D256-02M	MS	7471A	7471A	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5MS	D256-02M	MS	GEN PREP	7199	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5MS	D256-02M	MS	TOTAL	6020	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5MSD	D256-02S	MSD	3550B	8015B EFH	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5MSD	D256-02S	MSD	3550B	8082	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5MSD	D256-02S	MSD	3550B	8270C SIM	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5MSD	D256-02S	MSD	7471A	7471A	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5MSD	D256-02S	MSD	GEN PREP	7199	III
26-Apr-2012	SL-695-SA5C-SB-0.0-0.5MSD	D256-02S	MSD	TOTAL	6020	III
26-Apr-2012	SL-995-SA5C-SB-0.0-0.5	D256-03	FD	3550B	8015B EFH	III

III = EPA Level 3 Data Review  
IV = EPA Level 4 Data Validation

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Apr-2012	SL-995-SA5C-SB-0.0-0.5	D256-03	FD	3550B	8082	III
26-Apr-2012	SL-995-SA5C-SB-0.0-0.5	D256-03	FD	3550B	8270C SIM	III
26-Apr-2012	SL-995-SA5C-SB-0.0-0.5	D256-03	FD	7471A	7471A	III
26-Apr-2012	SL-995-SA5C-SB-0.0-0.5	D256-03	FD	GEN PREP	7199	III
26-Apr-2012	SL-995-SA5C-SB-0.0-0.5	D256-03	FD	TOTAL	6020	III
26-Apr-2012	SL-703-SA5C-SB-0.0-0.5	D256-07	N	3550B	8015B EFH	III
26-Apr-2012	SL-703-SA5C-SB-0.0-0.5	D256-07	N	3550B	8082	III
26-Apr-2012	SL-703-SA5C-SB-0.0-0.5	D256-07	N	3550B	8270C SIM	III
26-Apr-2012	SL-703-SA5C-SB-0.0-0.5	D256-07	N	7471A	7471A	III
26-Apr-2012	SL-703-SA5C-SB-0.0-0.5	D256-07	N	GEN PREP	7199	III
26-Apr-2012	SL-703-SA5C-SB-0.0-0.5	D256-07	N	GEN PREP	8015B	III
26-Apr-2012	SL-703-SA5C-SB-0.0-0.5	D256-07	N	GEN PREP	8015M	III
26-Apr-2012	SL-703-SA5C-SB-0.0-0.5	D256-07	N	TOTAL	6020	III
26-Apr-2012	SL-697-SA5C-SB-0.0-0.5	D256-04	N	3550B	8015B EFH	III
26-Apr-2012	SL-702-SA5C-SB-0.0-0.5	D256-06	N	7471A	7471A	III
26-Apr-2012	SL-702-SA5C-SB-0.0-0.5	D256-06	N	TOTAL	6020	III
26-Apr-2012	SL-701-SA5C-SB-0.0-0.5	D256-05	N	3550B	8015B EFH	III
26-Apr-2012	SL-701-SA5C-SB-0.0-0.5	D256-05	N	3550B	8270C SIM	III
26-Apr-2012	SL-700-SA5C-SB-0.0-0.5	D256-09	N	3550B	8015B EFH	III
26-Apr-2012	SL-709-SA5C-SB-0.0-0.5	D256-10	N	7471A	7471A	III
26-Apr-2012	SL-711-SA5C-SB-0.0-0.5	D256-11	N	3550B	8015B EFH	III
26-Apr-2012	SL-711-SA5C-SB-0.0-0.5	D256-11	N	3550B	8082	III
26-Apr-2012	SL-711-SA5C-SB-0.0-0.5	D256-11	N	7471A	7471A	III
26-Apr-2012	SL-711-SA5C-SB-0.0-0.5	D256-11	N	TOTAL	6020	III
26-Apr-2012	SL-711-SA5C-SB-0.0-0.5	D256-11W	N	3550B	8270C SIM	III
26-Apr-2012	EB-042612	D256-08	EB	3520C	8015B EFH	III

III = EPA Level 3 Data Review  
IV = EPA Level 4 Data Validation

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
26-Apr-2012	EB-042612	D256-08	EB	3520C	8082	III
26-Apr-2012	EB-042612	D256-08	EB	3520C	8270C SIM	III
26-Apr-2012	EB-042612	D256-08	EB	7470A	7470A	III
26-Apr-2012	EB-042612	D256-08	EB	GEN PREP	7199	III
26-Apr-2012	EB-042612	D256-08	EB	GEN PREP	8015B	III
26-Apr-2012	EB-042612	D256-08	EB	GEN PREP	8015M	III
26-Apr-2012	EB-042612	D256-08	EB	TOTAL	6020	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: 12D256

Laboratory: EMXT

EDD Filename: 12D256

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> AQ

Sample ID: EB-042612      Collected: 4/26/2012 2:50:00      Analysis Type: RES/TOT      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	0.0440	J	0.0200	MDL	0.100	PQL	MG/L	J	Z
CALCIUM	0.0367	J	0.0250	MDL	0.100	PQL	MG/L	J	Z
SODIUM	0.0732	J	0.0500	MDL	0.100	PQL	MG/L	J	Z

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-571-SA5C-SB-0.0-0.5      Collected: 4/26/2012 8:45:00      Analysis Type: RES/TOT      Dilution: 0.952

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.224	J	0.111	MDL	0.556	PQL	MG/KG	J	Z, Q
CADMIUM	0.165	J	0.0556	MDL	0.556	PQL	MG/KG	J	Z
SILVER	0.0629	J	0.0556	MDL	0.556	PQL	MG/KG	J	Z
THALLIUM	0.291	J	0.0556	MDL	0.445	PQL	MG/KG	J	Z

Sample ID: SL-695-SA5C-SB-0.0-0.5      Collected: 4/26/2012 9:25:00      Analysis Type: RES/TOT      Dilution: 0.995

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.200	J	0.108	MDL	0.538	PQL	MG/KG	J	Z, Q
CADMIUM	0.168	J	0.0538	MDL	0.538	PQL	MG/KG	J	Z
MOLYBDENUM	0.461	J	0.0538	MDL	0.538	PQL	MG/KG	J	Z
THALLIUM	0.263	J	0.0538	MDL	0.430	PQL	MG/KG	J	Z

Sample ID: SL-702-SA5C-SB-0.0-0.5      Collected: 4/26/2012 10:55:00      Analysis Type: RES/TOT      Dilution: 0.971

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.880		0.104	MDL	0.518	PQL	MG/KG	J	Q
CADMIUM	0.276	J	0.0518	MDL	0.518	PQL	MG/KG	J	Z
SODIUM	91.9	J	51.8	MDL	104	PQL	MG/KG	J	Z
THALLIUM	0.267	J	0.0518	MDL	0.415	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D256

Laboratory: EMXT

EDD Filename: 12D256

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	<b>Matrix:</b>	SO
<b>Method:</b>	6020		

Sample ID: SL-703-SA5C-SB-0.0-0.5      Collected: 4/26/2012 10:20:00      Analysis Type: RES/TOT      Dilution: 0.980

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.322	J	0.107	MDL	0.535	PQL	MG/KG	J	Z, Q
CADMIUM	0.166	J	0.0535	MDL	0.535	PQL	MG/KG	J	Z
MOLYBDENUM	0.478	J	0.0535	MDL	0.535	PQL	MG/KG	J	Z
THALLIUM	0.239	J	0.0535	MDL	0.428	PQL	MG/KG	J	Z

Sample ID: SL-711-SA5C-SB-0.0-0.5      Collected: 4/26/2012 2:40:00      Analysis Type: RES/TOT      Dilution: 0.985

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.214	J	0.105	MDL	0.523	PQL	MG/KG	J	Z, Q
BERYLLIUM	0.376	J	0.0523	MDL	0.523	PQL	MG/KG	J	Z
CADMIUM	0.221	J	0.0523	MDL	0.523	PQL	MG/KG	J	Z
SELENIUM	0.272	J	0.209	MDL	0.523	PQL	MG/KG	J	Z
SODIUM	82.9	J	52.3	MDL	105	PQL	MG/KG	J	Z
THALLIUM	0.164	J	0.0523	MDL	0.418	PQL	MG/KG	J	Z

Sample ID: SL-995-SA5C-SB-0.0-0.5      Collected: 4/26/2012 9:30:00      Analysis Type: RES/TOT      Dilution: 0.976

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.186	J	0.105	MDL	0.526	PQL	MG/KG	J	Z, Q
CADMIUM	0.149	J	0.0526	MDL	0.526	PQL	MG/KG	J	Z
MOLYBDENUM	0.467	J	0.0526	MDL	0.526	PQL	MG/KG	J	Z
THALLIUM	0.248	J	0.0526	MDL	0.421	PQL	MG/KG	J	Z

<b>Method Category:</b>	SVOA	<b>Matrix:</b>	SO
<b>Method:</b>	8015B EFH		

Sample ID: SL-695-SA5C-SB-0.0-0.5      Collected: 4/26/2012 9:25:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C30-C40)	7.1	J	5.4	MDL	11	PQL	MG/KG	J	Z, FD

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D256

Laboratory: EMXT

EDD Filename: 12D256

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method Category:** SVOA  
**Method:** 8015B EFH **Matrix:** SO

Sample ID: SL-697-SA5C-SB-0.0-0.5      Collected: 4/26/2012 10:40:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C30-C40)	6.0	J	5.4	MDL	11	PQL	MG/KG	J	Z

Sample ID: SL-711-SA5C-SB-0.0-0.5      Collected: 4/26/2012 2:40:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C30-C40)	9.4	J	5.3	MDL	11	PQL	MG/KG	J	Z

Sample ID: SL-995-SA5C-SB-0.0-0.5      Collected: 4/26/2012 9:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C30-C40)	11	U	5.4	MDL	11	PQL	MG/KG	UJ	FD

**Method Category:** SVOA  
**Method:** 8270C SIM **Matrix:** SO

Sample ID: SL-571-SA5C-SB-0.0-0.5      Collected: 4/26/2012 8:45:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	3.1	J	2.9	MDL	12	PQL	UG/KG	J	Z

Sample ID: SL-703-SA5C-SB-0.0-0.5      Collected: 4/26/2012 10:20:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 2

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	5.9	J	5.5	MDL	22	PQL	UG/KG	J	Z
BENZO(E)PYRENE	7.4	J	5.5	MDL	11	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	7.0	J	5.5	MDL	22	PQL	UG/KG	J	Z

Sample ID: SL-711-SA5C-SB-0.0-0.5      Collected: 4/26/2012 2:40:00      Analysis Type: RES-BASE/NEUTRAL      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZO(B)FLUORANTHENE	3.8	J	2.7	MDL	11	PQL	UG/KG	J	Z
BENZO(E)PYRENE	3.0	J	2.7	MDL	5.3	PQL	UG/KG	J	Z
BENZO(G,H,I)PERYLENE	3.0	J	2.7	MDL	11	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D256

Laboratory: EMXT

EDD Filename: 12D256

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method Category: SVOA

Method: 8270C SIM

Matrix: SO

Sample ID: SL-711-SA5C-SB-0.0-0.5

Collected: 4/26/2012 2:40:00

Analysis Type: RES-BASE/NEUTRAL Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
FLUORANTHENE	2.7	J	2.7	MDL	11	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D256

Laboratory: EMXT

EDD Filename: 12D256

eQAPP Name: CDM\_SSFL\_120730\_EMAX

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
FD	Field Duplicate Precision
Q	Matrix Spike Lower Estimation
Q	Matrix Spike Lower Rejection
Q	Matrix Spike Upper Estimation
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

12D256

# Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: 12D256

Laboratory: EMXT

EDD Filename: 12D256

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 6020

Matrix: SO

QC Sample ID (Associated Samples)	Compound	MS %R	MSD %R	%R Limits	RPD (Limits)	Affected Compounds	Flag
SL-695-SA5C-SB-0.0-0.5MSD (TOT) (SL-571-SA5C-SB-0.0-0.5 SL-695-SA5C-SB-0.0-0.5 SL-702-SA5C-SB-0.0-0.5 SL-703-SA5C-SB-0.0-0.5 SL-711-SA5C-SB-0.0-0.5 SL-995-SA5C-SB-0.0-0.5)	MANGANESE	-	255	75.00-125.00	-	MANGANESE	No Qual, >4x
SL-695-SA5C-SB-0.0-0.5MS (TOT) SL-695-SA5C-SB-0.0-0.5MSD (TOT) (SL-571-SA5C-SB-0.0-0.5 SL-695-SA5C-SB-0.0-0.5 SL-702-SA5C-SB-0.0-0.5 SL-703-SA5C-SB-0.0-0.5 SL-711-SA5C-SB-0.0-0.5 SL-995-SA5C-SB-0.0-0.5)	TITANIUM	52	-31	75.00-125.00	-	TITANIUM	No Qual, >4x
SL-695-SA5C-SB-0.0-0.5MS (TOT) SL-695-SA5C-SB-0.0-0.5MSD (TOT) (SL-571-SA5C-SB-0.0-0.5 SL-695-SA5C-SB-0.0-0.5 SL-702-SA5C-SB-0.0-0.5 SL-703-SA5C-SB-0.0-0.5 SL-711-SA5C-SB-0.0-0.5 SL-995-SA5C-SB-0.0-0.5)	ANTIMONY IRON	69 -	62 63	75.00-125.00 75.00-125.00	- -	ANTIMONY IRON	J(all detects) UJ(all non-detects)  Fe, No Qual, >4x

# Field Duplicate RPD Report

Lab Reporting Batch ID: 12D256

Laboratory: EMXT

EDD Filename: 12D256

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method: 6020**  
**Matrix: SO**

Analyte	Concentration (MG/KG)		Sample RPD	eQAPP RPD	Flag
	SL-695-SA5C-SB-0.0-0.5 (TOT)	SL-995-SA5C-SB-0.0-0.5 (TOT)			
ALUMINUM	15000	13600	10	50.00	No Qualifiers Applied
ANTIMONY	0.200	0.186	7	50.00	
ARSENIC	4.01	4.07	1	50.00	
BARIUM	105	107	2	50.00	
BERYLLIUM	0.621	0.617	1	50.00	
CADMIUM	0.168	0.149	12	50.00	
CALCIUM	2280	2100	8	50.00	
CHROMIUM	19.0	18.1	5	50.00	
COBALT	5.22	5.17	1	50.00	
COPPER	7.51	6.58	13	50.00	
IRON	19200	18300	5	50.00	
LEAD	5.72	6.24	9	50.00	
LITHIUM	16.6	12.7	27	50.00	
MAGNESIUM	3790	3300	14	50.00	
MANGANESE	233	219	6	50.00	
MOLYBDENUM	0.461	0.467	1	50.00	
NICKEL	9.97	8.58	15	50.00	
PHOSPHORUS	155	112	32	50.00	
POTASSIUM	1860	1610	14	50.00	
SODIUM	181	175	3	50.00	
STRONTIUM	21.1	20.5	3	50.00	
THALLIUM	0.263	0.248	6	50.00	
TITANIUM	939	836	12	50.00	
VANADIUM	36.0	36.2	1	50.00	
ZINC	42.8	37.9	12	50.00	

**Method: 8015B EFH**  
**Matrix: SO**

Analyte	Concentration (MG/KG)		Sample RPD	eQAPP RPD	Flag
	SL-695-SA5C-SB-0.0-0.5	SL-995-SA5C-SB-0.0-0.5			
EFH(C30-C40)	7.1	11 U	200	50.00	J(all detects) UJ(all non-detects)

# Reporting Limit Outliers

Lab Reporting Batch ID: 12D256

Laboratory: EMXT

EDD Filename: 12D256

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 6020

**Matrix:** AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
EB-042612	ALUMINIUM	J	0.0440	0.100	PQL	MG/L	J (all detects)
	CALCIUM	J	0.0367	0.100	PQL	MG/L	
	SODIUM	J	0.0732	0.100	PQL	MG/L	

**Method:** 6020

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-571-SA5C-SB-0.0-0.5	ANTIMONY	J	0.224	0.556	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.165	0.556	PQL	MG/KG	
	SILVER	J	0.0629	0.556	PQL	MG/KG	
	THALLIUM	J	0.291	0.445	PQL	MG/KG	
SL-695-SA5C-SB-0.0-0.5	ANTIMONY	J	0.200	0.538	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.168	0.538	PQL	MG/KG	
	MOLYBDENUM	J	0.461	0.538	PQL	MG/KG	
	THALLIUM	J	0.263	0.430	PQL	MG/KG	
SL-702-SA5C-SB-0.0-0.5	CADMIUM	J	0.276	0.518	PQL	MG/KG	J (all detects)
	SODIUM	J	91.9	104	PQL	MG/KG	
	THALLIUM	J	0.267	0.415	PQL	MG/KG	
SL-703-SA5C-SB-0.0-0.5	ANTIMONY	J	0.322	0.535	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.166	0.535	PQL	MG/KG	
	MOLYBDENUM	J	0.478	0.535	PQL	MG/KG	
	THALLIUM	J	0.239	0.428	PQL	MG/KG	
SL-711-SA5C-SB-0.0-0.5	ANTIMONY	J	0.214	0.523	PQL	MG/KG	J (all detects)
	BERYLLIUM	J	0.376	0.523	PQL	MG/KG	
	CADMIUM	J	0.221	0.523	PQL	MG/KG	
	SELENIUM	J	0.272	0.523	PQL	MG/KG	
	SODIUM	J	82.9	105	PQL	MG/KG	
	THALLIUM	J	0.164	0.418	PQL	MG/KG	
SL-995-SA5C-SB-0.0-0.5	ANTIMONY	J	0.186	0.526	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.149	0.526	PQL	MG/KG	
	MOLYBDENUM	J	0.467	0.526	PQL	MG/KG	
	THALLIUM	J	0.248	0.421	PQL	MG/KG	

**Method:** 8015B EFH

**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-695-SA5C-SB-0.0-0.5	EFH(C30-C40)	J	7.1	11	PQL	MG/KG	J (all detects)
SL-697-SA5C-SB-0.0-0.5	EFH(C30-C40)	J	6.0	11	PQL	MG/KG	J (all detects)
SL-711-SA5C-SB-0.0-0.5	EFH(C30-C40)	J	9.4	11	PQL	MG/KG	J (all detects)

## Reporting Limit Outliers

Lab Reporting Batch ID: 12D256

Laboratory: EMXT

EDD Filename: 12D256

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 8270C SIM

Matrix: SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-571-SA5C-SB-0.0-0.5	FLUORANTHENE	J	3.1	12	PQL	UG/KG	J (all detects)
SL-703-SA5C-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	5.9	22	PQL	UG/KG	J (all detects)
	BENZO(E)PYRENE	J	7.4	11	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	7.0	22	PQL	UG/KG	
SL-711-SA5C-SB-0.0-0.5	BENZO(B)FLUORANTHENE	J	3.8	11	PQL	UG/KG	J (all detects)
	BENZO(E)PYRENE	J	3.0	5.3	PQL	UG/KG	
	BENZO(G,H,I)PERYLENE	J	3.0	11	PQL	UG/KG	
	FLUORANTHENE	J	2.7	11	PQL	UG/KG	

LDC #: 28558J4

**VALIDATION COMPLETENESS WORKSHEET**

Date: 11-6-12

SDG #: 12D256

ADR

Page: 1 of 1

Laboratory: EMAX Laboratories, Inc.

Reviewer: [Signature]

2nd Reviewer: [Signature]

**METHOD:** Metals (EPA SW 846 Method 6010B/6020A/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	-	Sampling dates:
II.	ICP/MS Tune	-	
III.	Calibration	-	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	-	
VI.	Matrix Spike Analysis	N	MS/D (Fe, Mn, Ti > 4X)
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	N	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	A	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	N	
XIV.	Field Duplicates	-	
XV.	Field Blanks	SW	EB = 6      FB = FB-071112

Note: A = Acceptable  
 N = Not provided/applicable  
 SW = See worksheet

ND = No compounds detected  
 R = Rinsate  
 FB = Field blank

D = Duplicate  
 TB = Trip blank  
 EB = Equipment blank

C126064

Validated Samples:

soil/water

1	SL-571-SA5C-SB-0.0-0.5	11		21		31	
2	SL-695-SA5C-SB-0.0-0.5	12		22		32	
3	SL-995-SA5C-SB-0.0-0.5	13		23		33	
4	SL-702-SA5C-SB-0.0-0.5	14		24		34	
5	SL-703-SA5C-SB-0.0-0.5	15		25		35	
6	EB-042612	16	W	26		36	
7	SL-709-SA5C-SB-0.0-0.5	17		27		37	
8	SL-711-SA5C-SB-0.0-0.5	18		28		38	
9	SL-695-SA5C-SB-0.0-0.5MS	19		29		39	
10	SL-695-SA5C-SB-0.0-0.5MSD	20		30		40	

Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**VALIDATION FINDINGS WORKSHEET**  
**Field Blanks**

**METHOD:** Trace Metals (EPA SW846 6010B/7000)

**Blank units:** ug/L **Associated sample units:** mg/Kg  
**Sampling date:** 7/11/12 **Soil factor applied:** 50x  
**Field blank type:** (circle one) Field Blank / Rinsate / Other:

Associated Samples: All So.

Analyte	Blank ID	Action Limit	No Qualifiers	Sample Identification				
Al	0.0296	7.4						
Cu	0.00102	0.255						
Ni	0.000204	0.051						

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:  
 Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

# **SAMPLE DELIVERY GROUP**

**12D275**

# **Attachment I**

## **Sample ID Cross Reference and Data Review Level**

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Apr-2012	SL-710A-SA5C-SB-0.0-0.5	D275-01W	N	3550B	8082	III
30-Apr-2012	SL-710A-SA5C-SB-2.0-3.0	D275-02W	N	3550B	8082	III
30-Apr-2012	SL-710B-SA5C-SB-0.0-0.5	D275-03W	N	3550B	8082	III
30-Apr-2012	SL-710B-SA5C-SB-2.0-3.0	D275-04W	N	3550B	8082	III
30-Apr-2012	SL-710C-SA5C-SB-0.0-0.5	D275-05W	N	3550B	8082	III
30-Apr-2012	SL-710C-SA5C-SB-2.0-3.0	D275-06W	N	3550B	8082	III
30-Apr-2012	SL-710D-SA5C-SB-0.0-0.5	D275-07W	N	3550B	8082	III
30-Apr-2012	SL-710D-SA5C-SB-2.0-3.0	D275-08W	N	3550B	8082	III
30-Apr-2012	SL-712-SA5C-SB-0.0-0.5	D275-09	N	3550B	8015B EFH	III
30-Apr-2012	SL-712-SA5C-SB-0.0-0.5	D275-09	N	7471A	7471A	III
30-Apr-2012	SL-712-SA5C-SB-0.0-0.5	D275-09	N	TOTAL	6020	III
30-Apr-2012	SL-712-SA5C-SB-0.0-0.5	D275-09W	N	3550B	8082	III
30-Apr-2012	SL-712-SA5C-SB-0.0-0.5	D275-09W	N	3550B	8270C SIM	III
30-Apr-2012	SL-713-SA5C-SB-0.0-0.5	D275-10	N	3550B	8015B EFH	III
30-Apr-2012	SL-713-SA5C-SB-0.0-0.5	D275-10	N	7471A	7471A	III
30-Apr-2012	SL-713-SA5C-SB-0.0-0.5	D275-10	N	TOTAL	6020	III
30-Apr-2012	SL-713-SA5C-SB-0.0-0.5	D275-10W	N	3550B	8082	III
30-Apr-2012	SL-713-SA5C-SB-0.0-0.5	D275-10W	N	3550B	8270C SIM	III
30-Apr-2012	SL-715-SA5C-SB-0.0-0.5	D275-11	N	3550B	8015B EFH	III
30-Apr-2012	SL-715-SA5C-SB-0.0-0.5	D275-11	N	3550B	8270C SIM	III
30-Apr-2012	SL-715-SA5C-SB-0.0-0.5	D275-11	N	7471A	7471A	III
30-Apr-2012	SL-715-SA5C-SB-0.0-0.5	D275-11	N	GEN PREP	7199	III
30-Apr-2012	SL-715-SA5C-SB-0.0-0.5	D275-11	N	TOTAL	6020	III
30-Apr-2012	SL-715-SA5C-SB-0.0-0.5	D275-11W	N	3550B	8082	III
30-Apr-2012	SL-720-SA5C-SB-0.0-0.5	D275-12	N	3550B	8015B EFH	III
30-Apr-2012	SL-720-SA5C-SB-0.0-0.5	D275-12	N	3550B	8270C SIM	III

III = EPA Level 3 Data Review  
IV = EPA Level 4 Data Validation

N = Normal Sample  
FD = Field Duplicate

TB = Trip Blank  
FB = Field Blank

MS = Matrix Spike  
MSD = Matrix Spike Duplicate

## Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
30-Apr-2012	SL-720-SA5C-SB-0.0-0.5	D275-12	N	7471A	7471A	III
30-Apr-2012	SL-720-SA5C-SB-0.0-0.5	D275-12	N	TOTAL	6020	III
30-Apr-2012	SL-720-SA5C-SB-0.0-0.5	D275-12W	N	3550B	8082	III

## **Attachment II**

### **Overall Data Qualification Summary**

# Data Qualifier Summary

Lab Reporting Batch ID: 12D275

Laboratory: EMXT

EDD Filename: 12D275

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method Category:	METALS	
Method:	6020	Matrix: SO

Sample ID: SL-712-SA5C-SB-0.0-0.5      Collected: 4/30/2012 11:35:00      Analysis Type: RES/TOT      Dilution: 0.966

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	11600		12.2	MDL	102	PQL	MG/KG	J	Q
BERYLLIUM	0.380	J	0.0508	MDL	0.508	PQL	MG/KG	J	Z
CADMIUM	0.415	J	0.0508	MDL	0.508	PQL	MG/KG	J	Z
IRON	18400		10.2	MDL	102	PQL	MG/KG	J	Q
MOLYBDENUM	0.313	J	0.0508	MDL	0.508	PQL	MG/KG	J	Z
SODIUM	95.5	J	50.8	MDL	102	PQL	MG/KG	J	Z
THALLIUM	0.225	J	0.0508	MDL	0.406	PQL	MG/KG	J	Z

Sample ID: SL-713-SA5C-SB-0.0-0.5      Collected: 4/30/2012 2:15:00      Analysis Type: RES/TOT      Dilution: 0.995

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	14300		12.8	MDL	107	PQL	MG/KG	J	Q
ANTIMONY	0.418	J	0.107	MDL	0.533	PQL	MG/KG	J	Z
IRON	21300		10.7	MDL	107	PQL	MG/KG	J	Q
MOLYBDENUM	0.436	J	0.0533	MDL	0.533	PQL	MG/KG	J	Z
THALLIUM	0.279	J	0.0533	MDL	0.426	PQL	MG/KG	J	Z

Sample ID: SL-715-SA5C-SB-0.0-0.5      Collected: 4/30/2012 2:45:00      Analysis Type: RES/TOT      Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	15100		12.6	MDL	105	PQL	MG/KG	J	Q
ANTIMONY	0.356	J	0.105	MDL	0.526	PQL	MG/KG	J	Z
CADMIUM	0.251	J	0.0526	MDL	0.526	PQL	MG/KG	J	Z
IRON	21400		10.5	MDL	105	PQL	MG/KG	J	Q
MOLYBDENUM	0.505	J	0.0526	MDL	0.526	PQL	MG/KG	J	Z
SODIUM	94.9	J	52.6	MDL	105	PQL	MG/KG	J	Z
THALLIUM	0.272	J	0.0526	MDL	0.421	PQL	MG/KG	J	Z

Sample ID: SL-720-SA5C-SB-0.0-0.5      Collected: 4/30/2012 3:30:00      Analysis Type: RES/TOT      Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ALUMINUM	16800		12.8	MDL	107	PQL	MG/KG	J	Q

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/13/2012 9:34:14 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D275

Laboratory: EMXT

EDD Filename: 12D275

eQAPP Name: CDM\_SSFL\_120730\_EMAX

<b>Method Category:</b>	METALS	
<b>Method:</b>	6020	<b>Matrix:</b> SO

Sample ID: SL-720-SA5C-SB-0.0-0.5      Collected: 4/30/2012 3:30:00      Analysis Type: RES/TOT      Dilution: 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
ANTIMONY	0.220	J	0.107	MDL	0.533	PQL	MG/KG	J	Z
BORON	3.21	J	2.67	MDL	5.33	PQL	MG/KG	J	Z
CADMIUM	0.295	J	0.0533	MDL	0.533	PQL	MG/KG	J	Z
IRON	23000		10.7	MDL	107	PQL	MG/KG	J	Q
SODIUM	98.0	J	53.3	MDL	107	PQL	MG/KG	J	Z
THALLIUM	0.270	J	0.0533	MDL	0.426	PQL	MG/KG	J	Z

<b>Method Category:</b>	SVOA	
<b>Method:</b>	8015B EFH	<b>Matrix:</b> SO

Sample ID: SL-712-SA5C-SB-0.0-0.5      Collected: 4/30/2012 11:35:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C21-C30)	3.5	J	2.6	MDL	5.3	PQL	MG/KG	J	Z
EFH(C30-C40)	7.8	J	5.3	MDL	11	PQL	MG/KG	J	Z

Sample ID: SL-713-SA5C-SB-0.0-0.5      Collected: 4/30/2012 2:15:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C21-C30)	4.7	J	2.7	MDL	5.4	PQL	MG/KG	J	Z
EFH(C30-C40)	9.0	J	5.4	MDL	11	PQL	MG/KG	J	Z

Sample ID: SL-715-SA5C-SB-0.0-0.5      Collected: 4/30/2012 2:45:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C30-C40)	6.8	J	5.3	MDL	11	PQL	MG/KG	J	Z

Sample ID: SL-720-SA5C-SB-0.0-0.5      Collected: 4/30/2012 3:30:00      Analysis Type: RES      Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
EFH(C21-C30)	4.4	J	2.7	MDL	5.3	PQL	MG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

11/13/2012 9:34:14 AM

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D275

Laboratory: EMXT

EDD Filename: 12D275

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method Category: SVOA

Method: 8082

Matrix: SO

Sample ID: SL-712-SA5C-SB-0.0-0.5

Collected: 4/30/2012 11:35:00

Analysis Type: RES\_PR-

Dilution: 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
AROCLOR 1254	11	J	11	MDL	21	PQL	UG/KG	J	Z

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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# Data Qualifier Summary

Lab Reporting Batch ID: 12D275

Laboratory: EMXT

EDD Filename: 12D275

eQAPP Name: CDM\_SSFL\_120730\_EMAX

## Reason Code Legend

<i>Reason Code</i>	<i>Description</i>
Q	Matrix Spike Lower Estimation
S	Surrogate/Tracer Recovery Lower Estimation
Z	Reporting Limit Trace Value

\* denotes a non-reportable result

Project Name and Number: PHASE3 - SSFL PHASE 3

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## **Enclosure I**

### **Level III ADR Outliers (including Manual Review Outliers)**

# Quality Control Outlier Reports

12D275

# Surrogate Outlier Report

Lab Reporting Batch ID: 12D275

Laboratory: EMXT

EDD Filename: 12D275

eQAPP Name: CDM\_SSFL\_120730\_EMAX

Method: 8270C SIM

Matrix: SO

<i>Sample ID (Analysis Type)</i>	<i>Surrogate</i>	<i>Sample % Recovery</i>	<i>% Recovery Limits</i>	<i>Affected Compounds</i>	<i>Flag</i>
SL-713-SA5C-SB-0.0-0.5	2-FLUOROBIPHENYL	43	45.00-130.00	No Affected Compounds	

# Reporting Limit Outliers

Lab Reporting Batch ID: 12D275

Laboratory: EMXT

EDD Filename: 12D275

eQAPP Name: CDM\_SSFL\_120730\_EMAX

**Method:** 6020  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-712-SA5C-SB-0.0-0.5	BERYLLIUM	J	0.380	0.508	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.415	0.508	PQL	MG/KG	
	MOLYBDENUM	J	0.313	0.508	PQL	MG/KG	
	SODIUM	J	95.5	102	PQL	MG/KG	
	THALLIUM	J	0.225	0.406	PQL	MG/KG	
SL-713-SA5C-SB-0.0-0.5	ANTIMONY	J	0.418	0.533	PQL	MG/KG	J (all detects)
	MOLYBDENUM	J	0.436	0.533	PQL	MG/KG	
	THALLIUM	J	0.279	0.426	PQL	MG/KG	
SL-715-SA5C-SB-0.0-0.5	ANTIMONY	J	0.356	0.526	PQL	MG/KG	J (all detects)
	CADMIUM	J	0.251	0.526	PQL	MG/KG	
	MOLYBDENUM	J	0.505	0.526	PQL	MG/KG	
	SODIUM	J	94.9	105	PQL	MG/KG	
	THALLIUM	J	0.272	0.421	PQL	MG/KG	
SL-720-SA5C-SB-0.0-0.5	ANTIMONY	J	0.220	0.533	PQL	MG/KG	J (all detects)
	BORON	J	3.21	5.33	PQL	MG/KG	
	CADMIUM	J	0.295	0.533	PQL	MG/KG	
	SODIUM	J	98.0	107	PQL	MG/KG	
	THALLIUM	J	0.270	0.426	PQL	MG/KG	

**Method:** 8015B EFH  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-712-SA5C-SB-0.0-0.5	EFH(C21-C30)	J	3.5	5.3	PQL	MG/KG	J (all detects)
	EFH(C30-C40)	J	7.8	11	PQL	MG/KG	
SL-713-SA5C-SB-0.0-0.5	EFH(C21-C30)	J	4.7	5.4	PQL	MG/KG	J (all detects)
	EFH(C30-C40)	J	9.0	11	PQL	MG/KG	
SL-715-SA5C-SB-0.0-0.5	EFH(C30-C40)	J	6.8	11	PQL	MG/KG	J (all detects)
SL-720-SA5C-SB-0.0-0.5	EFH(C21-C30)	J	4.4	5.3	PQL	MG/KG	J (all detects)

**Method:** 8082  
**Matrix:** SO

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
SL-712-SA5C-SB-0.0-0.5	AROCLOR 1254	J	11	21	PQL	UG/KG	J (all detects)